E v o l D i r

March 1, 2014

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

Foreword

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

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

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

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Conferences

EGI Oxford StudentConf Evolution Mar18-20

The deadline for abstract submission has been extended to February 15!

The Edward Grey Institute student conferences started in 1947 and are intended as a place for students to present their work in a constructive atmosphere composed mostly of their peers.

In addition to undergraduates, graduate students and early career postdocs, a small number of academics also attend as plenary speakers.

The 2014 EGI Student Conference on Ecology and Evolution will be held at the Department of Zoology, University of Oxford, on 18-20th of March.

This year's plenary speakers include:

Julia Day (University College London) Zoe Davies (University of Kent) Dieter Lucas (University of Cambridge) Ian Owens (Natural History Museum, London) Nathalie Seddon (University of Oxford)

Deadline for abstracts: February 15.

For further details visit our website: http://-www.zoo.ox.ac.uk/egi/scee/ Catherine Sheard <catherine.sheard@zoo.ox.ac.uk>

catherinesheard@gmail.com

EGI Oxford StudentConf Evolution Mar18-20 2

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Abstract deadline for posters and talks: February 15.

For further details visit our website: http://-www.zoo.ox.ac.uk/egi/scee/ Catherine Sheard <catherine.sheard@zoo.ox.ac.uk>

catherinesheard@gmail.com

ETHZurich GNOME2014 Jul4

GNOME 2014: SYMPOSIUM AND CALL FOR PAPERS

GNOME (Gonnet is Not Only about Molecular Evolution) 2014 is a one-day symposium in honour of Prof. Gaston Gonnet's retirement. The symposium will take place on 4 July 2014 at ETH Zurich, Switzerland.

We invite all interested scholars to contribute to a festschrift on that occasion. We particularly welcome original papers and surveys in all areas of Prof. Gonnet's work, including (but not limited to) bioinformatics, symbolic and numeric computation, algorithms, text-mining, computational science, and high-performance computing.

We have partnered with PeerJ, an Open Access journal, to handle the submission process. All submissions will be first considered as preprints. For submissions that fall within PeerJ's remit (original research papers in bioinformatics and computational science papers with a biology component), there will be the possibility of undergoing peer-review and, subject to acceptance under normal PeerJ's criteria, publication in their journal. Preprints are free and peer-reviewed articles incur a modest publication fee (but note that some institutions have special arrangements and submissions received before 31 March are free-see PeerJ's website for more info).

Some of the contributions will be invited for oral presentation at the retirement symposium (on 4 July 2014 at ETH Zurich, Switzerland), but presence at the symposium in not required to contribute to the festschrift.

Please direct enquiries to Maria Anisimova (maria.anisimova at inf.ethz.ch) or Christophe Dessimoz (c.dessimoz at ucl.ac.uk).

More info on the symposium is available at http://-gnome2014.lnk.ch . IMPORTANT DATES

* Submission deadline for contributions undergoing peer-review: 20 April 2014 * Submission deadline for preprint only: 30 May 2014 * Symposium date: 4 July 2014

SUBMISSION GUIDELINES

All contributions should be submitted as a PeerJ PrePrint through the normal PeerJ website (http://-www.peerj.com), indicating in the "Notes to Staff" field "Festschrift Gaston Gonnet".

Once contributions are recorded as preprints, authors can choose to submit them for publication in the PeerJ journal (subject to their usual peer-review standards).

For contributions outside PeerJ's remit (which is the biological, bioinformatics, computational biology, medical, and health fields), we will get in touch with the authors to find a publication solution on a case-by-case basis.

UCL Department of Genetics, Evolution & Environment UCL Department of Computer Science Darwin Building (Room 631), Gower St, London, WC1E 6BT, UK Tel: +44 20 7679 0079 (Int. 30079) Mobile: +44 7721 047 648 http://lab.dessimoz.org Twitter: @cdessimoz http://lab.dessimoz.org Twitter: @cdessimoz

EastCarolinaU Biodiversity Mar14-15

The Center for Biodiversity and the Department of Biology at East Carolina University would like to invite you to attend and participate in a symposium entitled "Biodiversity responses to climate change: perspectives from the southeastern US" that is scheduled to take place on March 14 and 15, 2014 at East Carolina University in Greenville, NC. Our goals are to advance our collective understanding of how biodiversity is responding to climate change in the southeastern US and more broadly to provide a general framework that could guide researchers, managers and policy makers in other regions to enhance their understanding of how climate change may affect biodiversity in their regions. The symposium will feature 12 invited lectures, poster presentations, and open discussion. Our speakers and the tentative titles for their lectures are provided below. More information about the symposium can be found at http://www.ecu.edu/biology/ncbiodiversity/ . If you would like to present a research poster on biodiversity in the southeastern US or to attend the symposium, please register at http://www.ecu.edu/cs-cas/biology/-ncbiodiversity/upload/symposium-registration.docx by Feb. 24. Limited lodging support for students presenting posters is available and students can make requests for this support on the registration form.

Speakers and tentative titles

Terry Root (Stanford University): Changing Climate: Changing Species

Ryan Boyles (North Carolina State University): Future climates for the southeastern US

Jim Clark (Duke University): Forest response to climate change in the Southeast: perspectives on the Piedmont and southern Appalachians

Ray Semlitsch (University of Missouri): Abundance, diversity, and disturbance relationships: examples from pond-breeding amphibians

Bob Christian (East Carolina University), Dennis Allen (University of South Carolina), David Kimmel (East Carolina University), Anthony Overton (East Carolina University), and Enrique Reyes (East Carolina University): Potential future of the Pamlico Sound ecosystem: a space for time analysis.

Joel Kingsolver (University of North Carolina-Chapel Hill): Ecological and evolutionary responses of insects to climate changes: are means or extremes more important?

Allen Hurlbert (University of North Carolina - Chapel Hill): The consequences of climate change for avian biodiversity and migration

Ellen Damschen (University of Wisconsin- Madison): How complex landscapes shape plant movement and persistence in a changing climate

Brian Silliman (Duke University): Food webs, climate change and new theory in ecology.

Erik Sotka (College of Charleston): Adaptation to warming estuaries of the northwestern Atlantic: an evolutionary perspective

Rob Dunn (North Carolina State University): Dead trees and stinging ants. The future of the South in a warming and less predictable world

Reed Noss (University of Central Florida) & Joshua Reece (Valdosta State University): Climate change and biodiversity in Florida: long-term and short-term concerns

Dr. David R. Chalcraft Dept. of Biology East Carolina University Greenville, NC 27858

252-328-2797 http://core.ecu.edu/chalcraftd/ CHALCRAFTD@ecu.edu

Greifswald Germany Phylogenetics Jul14-16

I herewith want to announce the 1st Greifswald Phylogenetics Meeting, which will be held in Greifswald (north eastern Germany) from the 14th till the 16th of July 2014.

Registration is now open! For more details, please visit the conference website: http://stubber.math-inf.uni-greifswald.de/~spillner/gpm-2014/gpm-2014.html This meeting will have a particular focus on mathematical (e.g. graph theoretical, combinatorial, probabilistic and algebraic) aspects of evolutionary tree or network reconstruction, but it will also bring together scientists from different disciplines in order to provide the opportunity of close collaboration.

Scope:

Phylogenetics is an interdisciplinary research area that

aims at reconstructing the evolutionary history of biological systems such as, for example, collections of species, populations or groups of bio-molecules. To achieve this, biologists work closely together with mathematicians and computer scientists. The conference will provide researchers from all three involved disciplines an opportunity to present their recent work and exchange ideas.

Location: Greifswald is a beautiful little town located directly at the Baltic Sea in close proximity to the famous islands Rügen and Usedom. Greifswald university was founded in 1496 and has therefore a long tradition and history. Being a former Hanse town, Greifswald is famous for its historic market square, its cathedral and the museum harbor. Other famous towns like Stralsund with the Oceaneum or the world cultural heritage city of Wismar are nearby, as well as the city of Rostock with its newly established Darwineum. The region is a holiday region but not too crowded by tourists. In July the weather is most likely to be great and we hope that if you can come to our meeting, you will find the time to stay longer and enjoy this unique area. There is a direct and regular train connection to and from Berlin, and the nearest international airports are Hamburg and Berlin.

Please note that the meeting starts early on the 14th with one of our highlight talks and ends in the evening of the 16th with another highlight talk - so if possible, please plan your stay from the 13th till the 17th of July.

The registration fee is 150 Euros (100 Euros for students).

Organizers: Mareike Fischer, Andreas Spillner, Martin Haase

Invited speakers: Olaf Bininda-Emonds, Mike Steel, Olivier Gascuel, Vince Moulton, Allen Rodrigo

For more details, visit our website http://-stubber.math-inf.uni-greifswald.de/ ~ spillner/gpm-2014/gpm-2014.html or contact Mareike Fischer: email@mareikefischer.de

Mareike Fischer <email@mareikefischer.de>

Guelph OE3C2014 May8-10

Dear colleagues,

The University of Guelph will host the Ontario Ecology, Ethology, and Evolution Colloquium (OE3C) from May 8 to May 10, 2014. This graduate student-run conference is a great way for researchers from across Ontario and surrounding regions to meet and exchange ideas.

We are pleased to announce the following plenary speakers:

-Dr. Bennett Galef, McMaster University -Dr. Hafiz Maherali, University of Guelph -Dr. Nicole Mideo, University of Toronto -Dr. Amy Newman, University of Guelph

At this time, we welcome abstract submissions for oral or poster presentations, especially from undergraduate or graduate students and post-docs. Abstract guidelines and other conference information, including details about registration fees and logistics, can be found on our website: http://www.uoguelph.ca/oe3c2014/ Early registration will run until March 21. Registration is $70 for students and post-docs, and $100 for faculty members.

Please contact us at oe3c2014@gmail.com with any questions.

We hope to see you in May!

Kate Eisen http://www.uoguelph.ca/oe3c2014/ oe3c2014@gmail.com

oe3c2014@gmail.com

Istanbul EcolEvolutionaryBiol Jul12-13 DeadlineExt

We are pleased to announce the Ecology and Evolutionary Biology Symposium - 2014, Turkey (EEBST - 2014). This will be the first international symposium in Turkey focusing specifically on ecology and evolutionary biology.

EEBST will take place on July 12th/13th, 2014, and will be hosted by Bogazici University, Institute of Environmental Sciences. The conference venue will be Boaziçi University Albert Long Hall, located at the university's South Campus.

The symposium will be conducted in English.

Plenary lectures will be given by Nick Barton (Klosterneuburg, Austria), Jennifer Leonard (Sevilla, Spain), Juli Pausas (Valencia, Spain), Luigi Boitani (Rome, Italy).

A total of 48 (24 on ecology, 24 on evolutionary biology) oral presentations will be accepted. The Symposium

will also include a poster session.

This will be a unique opportunity for meeting Turkey's evolutionary biologist and ecologist research community and setting up collaborations.

We look forward to seeing you in Istanbul!

You can visit the website at: http://-www.eebst2014.boun.edu.tr/EEBST-2014/Home.html Deadlines: Abstract Submission (extended): February 22nd Abstract Acceptance Notification: March 21st Early Registration: April 1st Late Registration: April 2nd-July 12th

Murat Turul

PhD Student @ Barton Group Evolutionary Genetics, IST-Austria

muratugrul@gmail.com

JohnsHopkinsU GalaxyCommunity Jun30-Jul2

2014 Galaxy Community Conference (GCC2014)

http://galaxyproject.org/GCC2014 June 30 - July 2, 2014 Homewood Campus Johns Hopkins University Baltimore, Maryland, United States

The 2014 Galaxy Community Conference (GCC2014, http://galaxyproject.org/GCC2014) features two full days of presentations, discussions, poster sessions, lightning talks and birds-of-a-feather, all about data-intensive biology and the tools that support it. GCC2014 also includes a Training Day with five concurrent tracks and in-depth coverage of thirteen different topics.

GCC2014 will be held at the Homewood Campus of Johns Hopkins University, in Baltimore, Maryland, United States, from June 30 through July 2, 2014.

Galaxy is an easily extensible data integration and analysis platform for life sciences research that supports hundreds of bioinformatics analysis tools. Galaxy is open-source and can be locally installed or run on the cloud. There are hundreds of local installs, and over 50 publicly accessible servers around the world.

Early registration is now open. Early combined registration (Training Day + main meeting) starts at $140 for post-docs and students. Registration is capped this year at 250 participants, and we expect to hit that limit. Registering early assures you a place at the conference and also a spot in the Training Day workshops you want to attend.

You can also book affordable conference housing at the same time you register. See the conference Logistics page for details on this and other housing options.

Abstract submission for both oral presentations and posters is also open. Abstract submission for oral presentations closes April 4, and poster submission closes April 25. The GigaScience "Galaxy: Data Intensive and Reproducible Research" series (announced for GCC2013) is continuing to take submissions for this year's meeting and beyond. BGI is also continuing to cover the article processing charges until the end of the year, and for more information see their latest update.

Thanks, and hope to see you in Baltimore!

The GCC2014 Organizing Committee

http://galaxyproject.org/ http://getgalaxy.org/- http://usegalaxy.org/ http://wiki.galaxyproject.org/ clementsgalaxy@gmail.com

Kiel SMBEsatelliteMicrobialEvolution Apr2014 DeadlineExtension

SMBE Satellite Meeting on Reticulated Microbial Evolution Christian-Albrechts University Kiel, Germany, 27-30 April 2014

We have extended the abstract submission and early registration deadline to 23.2.2014.

Conference website: http://www.smbeme.org Lateral gene transfer (LGT) is the process by which prokaryotes acquire DNA across wide taxonomic boundaries and incorporate it into their genome. Accumulating evidence shows that LGT, a distinctly non tree-like evolutionary process, plays a major role in prokaryote evolution.

Our aim for this SMBE satellite meeting is to bring together scientists working in the fields of genome evolution, microbial ecology, and networks in order to further develop the research of microbial genome evolution by gene transfer.

CALL FOR ABSTRACTS

Abstract submission deadline: 23 February 2014 (Extended!!) Early registration deadline: 23 February 2014 (Extended!!) Late registration deadline: 31 March 2014

PROGRAM

The conference will comprise three themes: Microbial genome evolution Microbial ecology Networks

Contributed talks will be selected from among the submitted abstracts. Prizes will be awarded for the most promising poster presentations.

CONFIRMED SPEAKERS

Yael Artzy-Randrup, University of Amsterdam, Netherlands John Baines, Christian-Albrechts University Kiel, Germany Eric Bapteste, Université Pierre et Marie Curie Paris, France Jukka Corrander, University of Helsinki, Finland Tal Dagan, Christian-Albrechts University Kiel, Germany Marco Fondi, University of Florence, Italy Santo Fortunato, Aalto University, Finland Eugene Koonin, NCBI, NLM, NIH USA Philippe Lopez, Université Pierre et Marie Curie Paris, France Purificación Lopez-Garcia, Université Paris-Sud, France Bill Martin, Heinrich-Heine University Düsseldorf, Germany James McInerney, National University of Ireland Itzhak Mizrahi, ARO, Volcani Research Center, Israel Kaare M. Nielsen, UIT The Arctic University of Norway Ruth Schmitz-Streit, Christian-Albrechts University Kiel, Germany Jesse Shapiro, Université de Montréal, Canada Rotem Sorek, Weizmann Institute of Science, Israel Sören Sörensen, University of Copenhagen, Denmark Kornelia Smalla, Julius Kühn-Institut, Braunschweig, Germany Eva Top, University of Idaho, USA Christian von Mehring, University of Zurich, Switzerland Laurent Viennot, LIAFA, Université Paris Diderot, France

Looking forward to see you in Kiel next year,

Tal Dagan

On behalf of the organizing committee: James McInerney, National University of Ireland Bill Martin, Heinrich-Heine University Düsseldorf, Germany Eric Bapteste, Université Pierre et Marie Curie Paris, France

Prof. Dr. Tal Dagan

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Lancaster Phylogenetics April15

Dear Colleagues,

In association with the Scottish Phylogeny Discussion Group, Lancaster University will be hosting an international phylogenetics meeting on the afternoon of 15th April, as part of Lancaster's 50th Anniversary celebrations. Registration and lunch are free. We have four outstanding speakers in the field, making this is an unmissable opportunity for anyone interested in phylogenetics, bioinformatics, evolution or infectious disease.

Please email Derek Gatherer <d.gatherer@lancaster.ac.uk> to register, indicating any dietary requirements if necessary, and also if you would like to come to dinner with the speakers afterwards.

Lancaster University, UK, 15 April 2014

- 1 PM. Registration and buffet lunch.

- 2 PM. "The Greatest Experiment in Evolution: Viral Biocontrol of Rabbits". Professor EDDIE HOLMES, Australia Fellow, National Health and Medical Research Council (NHMRC) & University of Sydney.

- 3 PM. Tea/coffee.

- 3:30 PM. "Molecular phylogenetics: can we do it better?" Dr NICK GOLDMAN, Group Leader "Evolutionary tools for genomic analysis", European Bioinformatics Institute, Cambridge.

- 4:15 PM. "Evolution of HIV-1 envelope drug resistance: use of the drug-bound CCR5-coreceptor versus coreceptor switching". Professor DAVID ROBERTSON, Group Leader, Computational & Evolutionary Biology, Faculty of Life Sciences, University of Manchester.

- 4:45 PM. "Origins and evolutionary history of the small ruminant lentivirus pandemic". Dr ROB GIFFORD, Senior Research Fellow, MRC Centre for Virus Research, University of Glasgow.

- 5:15-5:30 PM. General discussion and close.

- Evening. Speakers' dinner (optional; if interested, please request in advance; charged at cost).

Futher details can be found at: http://eggg.st-andrews.ac.uk/spdg/ Best wishes,

Daniel

– Daniel Barker http://biology.st-andrews.ac.uk/staff/-db60 The University of St Andrews is a charity registered in Scotland : No SC013532

db60@st-andrews.ac.uk

Leicester UK EMBOHumanEvolution Apr1-4

Some places are still available for the EMBO Conference on "Human Evolution in the Genomic Era: Origins, populations and phenotypes", to be held in Leicester, UK, 1-4 April, 2014. Registration has been extended until Sunday 9th February.

Invited speakers are:

Guido Barbujani Universita' di Ferrara, IT

Ewan Birney European Bioinformatic Institute, UK

Carlos Bustamante Stanford University School of Medicine, US

Lounes Chikhi Instituto Gulbenkian de Ciência, PT; CNRS Toulouse, FR

Vincenza Colonna Institute of Genetics and Biophysics - ABT, IT

Graham Coop UC Davis, US

Anna Di Rienzo University of Chicago, US

Richard Durbin Wellcome Trust Sanger Institute, UK

Pascal Gagneux UC San Diego, US

Garrett Hellenthal University College London, UK

Brenna Henn Stony Brook University, US

Turi King University of Leicester, UK

Tomas Marques-Bonet Institut Biologia Evolutiva (Universitat Pompeu Fabra/CSIC), SP

Joanna Mountain 23andMe, US

Mark Pagel University of Reading, UK

Sohini Ramachandran Brown University, US

Aylwyn Scally University of Cambridge, UK

Mark Shriver Pennsylvania State University, US

For further details and instructions on how to register, please visit: http://events.embo.org/14-human-evo/index.html Please register soon if you want to attend!

embo 2014 <embo2014humanevolution@gmail.com>

MNHN Paris YoungScientists Feb12-14

1st Young Natural History scientists' Meeting *(YNHM)*

February 12th-14th 2014MNHN, Paris, France

Please find here the schedule and the abstract book for the 1st YNHM organized by the Bureau des Doctorants et Etudiants du Muséum (association for students and young researchers of the Muséum National d'Histoire Naturelle, Paris): http://bdem.mnhn.fr/-congres-et-seminaires/schedule/schedule Do not hesitate to forward it widely!

Looking forward to seeing you in Paris,

The BDEM

February 12th (AM) Biodiversity Dynamics and Conservation (PM) Mankind, Prehistory, Nature and Societies (Evening) Poster session

February 13th (AM) Earth and Planetary Sciences (PM) Systematics, Evolution and Comparative Anatomy (Evening) Poster session, Cocktail and Closing party

February 14th (AM) Conference excursions

Christie LE COEUR, phD student UMR 7204 - CESCO National Museum of Natural History 61 rue Buffon, CP 53 75005 Paris

Phone : +33 1 40 79 32 69 Email : christie.lecoeur@mnhn.fr

Christie Le Coeur <christie.lecoeur@mnhn.fr>

Manchester MolecularGenomeEvolution2014 May16

Dear Colleagues -

We are pleased to announce the fifth annual Manchester Molecular and Genome Evolution Symposium, which will take place on Friday 16th May 2014. The remit

of the symposium is broad and includes all aspects of molecular and genome evolution, including method development, molecular ecology, population genetics and experimental evolution.

The symposium will be a day-long event consisting of two plenary lectures, a series of contributed talks, and a poster session. Plenary lectures will be given by Juliette de Meaux (University of Münster) on "Cis-regulatory divergence between Arabidopsis species", and Chris Jiggins (University of Cambridge) on "Hybrid routes to an evolutionary novelty in a butterfly wing pattern".

MaGE is free to attend, but places are limited so please register soon at http://tinyurl.com/mage2014 and submit a title if you wish to present a talk or poster. We are particularly keen to give PhD students and post-docs a chance to present their work. All contributed talks and posters will also be considered for a prize, presented at the drinks reception following the symposium.

If you have any questions about the symposium please contact myself or please contact myself (casey.bergman[at]manchester.ac.uk) or Douda Bensasson (douda.bensasson[at]manchester.ac.uk).

We hope to see you in May!

Best regards,

Casey Bergman, Ph.D. Faculty of Life Sciences University of Manchester Michael Smith Building Oxford Road, M13 9PT Manchester, UK

casey.bergman@manchester.ac.uk

Montreal GenomesBiomes May25-29

You are invited to submit an oral or a poster presentations to GENOMES TO/AUX BIOMES Montreal 2014, the 1st joint meeting of the Canadian Society for Ecology and Evolution (CSEE), the Canadian Society of Zoologists (CSZ) and the Society of Canadian Limnologists (SCL), to be held May 25-29, 2014 in Montréal, Québec.

The early-bird deadline for all presentation submissions (oral and poster) is 7PM Eastern / 4PM Pacific Time, March 3, 2014.

http://genomesbiomes.ca/home Nous vous invitons à soumettre votre présentation orale ou par affiche pour GENOMES TO/AUX BIOMES Montreal 2014, la 1ère conférence conjointe de la Société canadienne d'écologie et d'évolution (SCEE), la Société canadienne de zoologie (SCZ) et la Société canadienne de limnologie (SCL), qui se tiendra du 25 au 29 mai 2014 à Montréal (Québec).

Date limite des inscriptions hâtives et de la soumission des présentations est 7PM Eastern / 4PM Pacific, 3 mars, 2014.

http://genomesbiomes.ca/HomeFrancais.html Chris Cameron

Sciences biologiques, Université de Montréal https://www.webdepot.umontreal.ca/-Usagers/cameroc/MonDepotPublic/Cameron/-index.htm http://en.wikipedia.org/wiki/-Universit%C3%A9_de_Montr%C3%A9al
c.cameron@umontreal.ca

NewcastleU EvolutionaryGenetics Apr14-16 reminder

The 58th meeting of the Ecological Genetics Group will be organised by Newcastle University from 14 - 16 April 2014. The meeting is well known for its excellent and friendly atmosphere. The meeting brings together young and experienced researchers from the UK, Europe and further afield. Their work ranges from ecology, population genetics and conservation biology to evolutionary genetics, with species from the whole tree of life. The conference will be held at Longhirst Hall, set in wonderful surroundings in Northumberland. Prof. Pär Ingvarsson will deliver the keynote speech. Participants can contribute through an oral presentation, a poster presentation or a discussion topic.

Places are limited, so make sure you register as early as possible: http://conferences.ncl.ac.uk/-ecologicalgeneticsgroup2014 Any queries: just contact us. Hope to see you all in Northumberland in April!

Dr Kirsten Wolff Reader in Evolutionary Genetics Devonshire Building Newcastle University Newcastle upon Tyne NE1 7RU

Personal email: kirsten.wolff@ncl.ac.uk

Conference Email: egg@ncl.ac.uk

phone: 0191 208 5626 or 0191 208 4852 kirsten.wolff@newcastle.ac.uk

Kirsten Wolff <kirsten.wolff@newcastle.ac.uk>

PortTownsend EvoWIBO Apr25-27

Registration for Evo-WIBO 2014 is now open (http://-/blogs.uoregon.edu/evowibo/).

Evo-WIBO is a gathering of evolutionary biologists of the Pacific Northwest. This meeting is held every second year and typically attracts 120-140 researchers for a fun weekend of presentations and discussions. The 2014 Meeting will be held April 25th-27th, 2014. Costs are kept at a minimum to increase participation, but space is limited so register soon.

As it has from its inception, the conference will be held at Fort Worden State Park in beautiful Port Townsend, WA. The plenary speaker for the 2014 meeting will be John Postlethwait from the University of Oregon who will present a talk entitled 'Gar Ãtoufée: Darwin's âliving fossil' and the origin of teleost genomes'.

Looking forward to seeing you in Port Townsend!

– Bill

William A. Cresko Director, Institute of Ecology and Evolution University of Oregon Eugene, OR 97403 @wcresko

wcresko@uoregon.edu

Portugal OccamsBeard Feb1

The Symposium of Occam's Beard: comedy, creativity, and critical thinking in science

Imagine a group of science lovers - both amateurs and professional scientists - with one goal: to create crazy, but coherent, theories, and support them with real data. This is the *Symposium of Occam's Beard*, a project founded by researchers from the Instituto Gulbenkian de Ciência and the Champalimaud Neuroscience Programme. The first symposium will take place on Saturday, February 1st at 16h, at the *Auditorium of the Champalimaud Centre for the Unknown* (Av. Brasília, Doca de Pedrouços, Lisboa, Portugal).

The *Symposium of Occam's Beard* aims to show the importance of critical thinking in science, by showing what happens if it is taken away. We hope this event reminds us of the power of hypotheses: it seems there is always data, even to back up the craziest hypothesis. We want to combat this trend by seeing how far we can push it.“ All theories presented at the symposium will be supported by real scientific data, but will that be enough to persuade the audience?

The program includes *eight talks, chosen for their interesting and humorous approach, based on solid data*. Detailed information about the speakers, consisting of scientists, science communicators, as well as one remarkable high school student, can be found at www.occamsbeard.com/speakers .The event will also include games and quizzes, and last for around 4 hours.

The event will be in English, and entrance will be free; however, seat reservation is recommended. Tickets can be reserved starting 25 January at noon via the website of the symposium at www.occamsbeard.com .Any remaining seats will be available at the door, and the symposium will be available through live streaming.

The Symposium of Occam's Beard is supported by the Fundação para a Ciência e a Tecnologia, as well as the Instituto Gulbenkian de Ciência, and the Fundação Champalimaud.

anamvleitao@gmail.com

PuertoRico SMBE Jun8-12 EvolutionOfRegulatoryGenome

Dear EvolDir members

A friendly reminder that abstract submissions for the Society for Molecular Biology and Evolution meeting (Puerto Rico June 8th-12th) are closing on February 3. http://smbe.org/annual/2014/ We are organising the combined symposium entitled “Evolution of the Regulatory Genome”, which will explore recent advances and challenges in the evolution of the regulatory genome from an experimental and computational perspective. Subjects of interest range from computational modeling and prediction of regulatory sequence, measuring the rate and impact of evolutionary turnover in regulatory sequences and how these interplay with the molecular mechanisms that define their function to evaluating their evolutionary consequences on gene expression and genomic organization.

This symposium is organised by Claudia Kutter, Camille Berthelot, Duncan Odom and Paul Flicek.

We and other symposia organisers look forward to receiving your abstracts.

Best wishes,

Camille

Camille Berthelot EMBL-EBI Wellcome Trust Genome Campus Hinxton, Cambridgeshire, UK

cberthel@ebi.ac.uk

PuertoRico SMBE Jun8-12 Registration

Dear Colleagues,

Registration is now open for the SMBE conference to be held in Puerto Rico from the 8-12th of June 2014. We are happy to invite you to submit an abstract for the symposium:

Detecting selection in natural populations: making sense of genome scans and towards alternative solutions

Invited speakers:

Rasmus Nielsen, UC Berkeley, USA

Matthieu Foll, Université de Lausanne, SWITZERLAND

Details of the symposium are below, and we will be accepting abstract submissions until 27th January 2014.

Description:

The use of genome-wide screens to detect selection in natural populations is a popular pursuit. At the heart of this method lies the detection of outlier loci to uncover signatures of selection, yet these signatures are generally interpreted without questioning basic model assumptions. Evidence is accumulating that this may lead to erroneous conclusions due to false positives (through recombination hotspots, population stratification, endogenous incompatibilities) or false negatives (e.g. weak selection relative to migration or drift). An additional complication is that these methods ignore the fact that most selected loci may be involved in polygenic adaptation in which case theory would predict small changes in allelic frequencies. Together these challenges highlight the need to improve current methods by improving model assumptions, variance estimates of differentiation, and by integrating environmental, phenotypic and functional genomics. Alternative approaches to the "selective sweep paradigm" that consider a multi-locus (quantitative) genetics framework must also be considered.

In this context, the goal of the symposium is to advance the field by uniting researchers working on both improving genome scan approaches as well as alternative solutions. Given the current excitement to uncover signatures of selection this symposium will certainly be of interest to a broad range of researchers in the fields of genome biology and evolutionary biology.

To register and submit your abstract for this symposium, please follow the instructions on the congress website (http://smbe.org/annual/2014/).

See you in Puerto Rico!

Louis Bernatchez and Maren Wellenreuther *Maren Wellenreuther* (PhD, Assistant Professor) Department of Biology, Lund University SE-223 62 Lund, SWEDEN

Phone: +46 46 222 9014 Mobile: +46 709 429930

http://www4.lu.se/o.o.i.s/25872 *WORK HOMEPAGE PERSONAL HOMEPAGE http://marenwellenreuther.com/ maren.wellenreuther@gmail.com

PuertoRico SMBE Jun8-12 UndergradAwards

2014 ANNUAL MEETING OF THE SOCIETY FOR MOLECULAR BIOLOGY AND EVOLUTION

June 8-12, Puerto Rico

The Society for Molecular Biology and Evolution (SMBE) is pleased to make available 10 awards for undergraduate students to participate in a Mentoring and Diversity Program at the SMBE meeting (June 8-12, Puerto Rico). Five of these positions will be reserved for undergraduates from traditionally underrepresented groups in our scientific discipline.

The goals of this program are: (1) to provide students with the opportunity to experience the excitement of attending and presenting at an international scientific conference, (2) to foster enthusiasm for molecular biology and evolution as well as a possible career in this field, and (3) to promote diversity at the SMBE annual meeting.

Eligibility: You must be an undergraduate student at the time of the application. It is not necessary to be

registered for the meeting to apply for the Undergraduate Travel award.

Process: Selected undergraduates (10) will receive a travel award ($1500 domestic and $2000 international). Undergraduate students will present their work in the Poster Session.

All details about this program can be found on this web site :

http://smbe.org/annual/2014/scientific-program/-awards/ Please do not hesitate to forward this announcement to your students.

DEADLINE FOR ABSTRACT SUBMISSION: March 18 2014

Laurent Duret Laboratoire Biométrie et Biologie Evolutive UMR CNRS 5558, Université Lyon 1 43 Bld du 11 Novembre 1918 69622 Villeurbanne cedex France

Phone : +33 (0) 4 72 44 62 97 FAX : +33 (0) 4 72 43 13 88 e-mail : Laurent.Duret@univ-lyon1.fr Web page: http://lbbe.univ-lyon1.fr/-Duret-Laurent-.html?lang=en Laurent Duret <Laurent.Duret@univ-lyon1.fr>

PuertoRico SMBE AsexualGenomeEvolAdapt Jun8-12

Conference: PuertoRico.SMBE_AsexualGenome_EvolAdapt_Jun8-12

We invite you to submit an abstract for poster and/or oral presentation in the symposium "Genome evolution and adaptation in asexual lineages" at the SMBE 2014 in Puerto Rico (8-12 June 2014, http://smbe.org/-annual/2014/).

Call for abstracts is open until 27 January 2014. Travel awards for postdocs and students are available (http:/-/smbe.org/annual/2014/scientific-program/awards/).

16. Genome evolution and adaptation in asexual lineages The prevalence of sexual reproduction among eukaryotes despite its costs is one of the major enigmas in evolutionary biology. Numerous ecological and genetic models, such as the Tangled Bank, the Red Queen, Muller's ratchet and Kondrashov's hatchet, suggest that sexuals can have an edge over asexuals in certain situations; furthermore, the observation that most asexual eukaryotes are recent offshoots scattered throughout the eukaryotic tree of life has led to the widespread hypothesis that asexuality represents an evolutionary "dead end" and that asexual lineages are bound to rapid extinction.

There are, however, some eukaryotic groups that have persisted for millions of years and diversified in the apparent absence of sex, such as bdelloid rotifers. To shed light on this paradox, the present symposium aims to explore mechanisms of genome evolution and adaptation that are specific to asexual lineages, including cancer cells.

Organizers: Jens Bast (J.F. Blumenbach Institute of Zoology and Anthropology, Göttingen, Germany) & Jean-François Flot (Max Planck Institute for Dynamics and Self-Organization, Göttingen, Germany)

Invited speakers (confirmed): Karine Van Doninck (University of Namur, Belgium) Michael Desai (Harvard University, USA)

jens.bast@biologie.uni-goettingen.de

PuertoRico SMBE DetectingNaturalSelection Jun8-12

Dear Evoldir members,

SMBE abstract submission closes on Tue Jan 27. We would like to encourage submission to the symposium

"Detecting selection in natural populations: making sense of genome scans and towards alternative solutions*

Invited speakers:

Rasmus Nielsen, UC Berkeley, USA

Matthieu Foll, Université de Lausanne, SWITZERLAND

Description:

The use of genome-wide screens to detect selection in natural populations is a popular pursuit. At the heart of this method lies the detection of outlier loci to uncover signatures of selection, yet these signatures are generally interpreted without questioning basic model assumptions. Evidence is accumulating that this may lead to erroneous conclusions due to false positives (through recombination hotspots, population stratification, endogenous incompatibilities) or false negatives (e.g. weak selection relative to migration or drift). An additional complication is that these methods ig-

nore the fact that most selected loci may be involved in polygenic adaptation in which case theory would predict small changes in allelic frequencies. Together these challenges highlight the need to improve current methods by improving model assumptions, variance estimates of differentiation, and by integrating environmental, phenotypic and functional genomics. Alternative approaches to the "selective sweep paradigm" that consider a multi-locus (quantitative) genetics framework must also be considered.

In this context, the goal of the symposium is to advance the field by uniting researchers working on both improving genome scan approaches as well as alternative solutions. Given the current excitement to uncover signatures of selection this symposium will certainly be of interest to a broad range of researchers in the fields of genome biology and evolutionary biology.

Contributed talks will be selected from abstracts submitted to the SMBE2014 website (http://smbe.org/-annual/2014/)

The symposium is organized by Louis Bernatchez and Maren Wellenreuther

Maren Wellenreuther (PhD, Assistant Professor) Department of Biology, Lund University SE-223 62 Lund, SWEDEN

Phone: +46 46 222 9014 Mobile: +46 709 429930

http://www4.lu.se/o.o.i.s/25872 WORK HOMEPAGE PERSONAL HOMEPAGE http://marenwellenreuther.com/- maren.wellenreuther@gmail.com maren.wellenreuther@gmail.com

PuertoRico SMBE GeneOrigin Jun8-12 DeadlineExtended

Dear colleagues,

The deadline for abstracts has been extended to Feb 3rd!

We invite you to submit an abstract for presentation in the symposium How old is my gene? Large-scale analysis of gene origin and function being held in conjunction with SMBE 2014, June 8 - 12 in Puerto Rico.

The origin of a gene relative to key transitions in species evolution provides clues about its functions, interactions, disease associations, and ecological distributions. Despite recent successes in gene age analysis, there are few established best practices for inferring gene origins and integrating this knowledge with other attributes of genes. The November (2013) Trends in Genetics article "How Old is My Gene?" (doi:10.1016/j.tig.2013.07.001) outlines some of the challenges and open questions in this emerging area.

The goal of this symposium is to promote a dialog on how best to define, quantify, and estimate gene age. We welcome

- studies that integrate gene origin analysis with other fields to address functional or ecological questions

- novel phylogenetic models and approaches for gene origin analysis

- abstracts that tackle issues in large-scale analyses of genes, e.g., of all genes in a genome or all genes that participate in the same pathway or process.

Abstracts should be no more than 400 words and must be submitted though the online system by MONDAY, FEB 3RD at: http://smbe.org/annual/2014/scientific-program/call-for-symposia/ Please join us for an exciting symposium, bringing together researchers who develop methods for estimating gene age with researchers who investigate the relationship between gene age and function

See you in Puerto Rico! Tony, Dannie, and Maureen

Symposium Organizers:

John A. Capra (tony.capra@vanderbilt.edu), Center for Human Genetics Research and Dept of Biomedical Informatics, Vanderbilt University, Nashville, TN 37232, USA

Dannie Durand, (durand@cs.cmu.edu), Depts of Biological Science and Computer Science, Carnegie Mellon University, Pittsburgh, PA 15213, USA

Maureen Stolzer (mstolzer@andrew.cmu.edu), Dept of Biological Science, Carnegie Mellon University, Pittsburgh, PA 15213, USA

moser282@gmail.com

PuertoRico SMBE GeneticsDomestication Jun8-12

I wanted to advertise the call for presentation abstracts for a specific symposium (Genetics of Species Domestication) at SMBE 2014 this year in Puerto Rico (June 8-12th). The specific symposium's abstract is below.

I believe presentation abstracts need to be submitted by Jan 27th on the conference's website (http://-/smbe.org/annual/2014/).

Many thanks! Bridgett

SMBE 2014 Symposium Abstract: Genetics of Species Domestication

The process of animal domestication is analogous to natural selection and provides many readily available systems that allow explorations of the genetic changes associated with rapid phenotypic alteration. In this symposium, we would like to discuss recent advances in the genetics of domestication. Specifically, our aim is to highlight recent studies that have both investigated the genetic changes that have accrued during the process of domestication, concomitantly with their correlation to various facets of the 'domestication syndrome', a suite of alterations in morphology, physiology, pigmentation, reproduction, and behavior.

Many studies have catalogued genetic variants under strong artificial selection in recent stages of domestication; however, we wish to see this symposium showcase some of the most dramatic findings of genome evolution as a consequence of species domestication.

Organizers: Bridgett vonHoldt, Carlos Driscoll

Bridgett vonHoldt Assistant Professor Princeton University Ecology & Evolutionary Biology M151 Guyot Hall Princeton, NJ 08544-2016 Office: 609-258-7021 vonholdt@princeton.edu http://-/www.princeton.edu/ ~ vonholdt "Bridgett M. vonHoldt" <vonholdt@princeton.edu>

Raleigh NorthCarolina Evolution2014 Jun20-24

Registration for Evolution 2014 is now open!

Just visit www.evolution2014.org to register.

You will find information about the conference on this website, answers to commonly asked questions in the FAQs, and explanatory text in the registration pages. Here are some helpful tips: * Registration costs depend on whether you are a student or a postdoc, and whether you are a member of one of the three societies. (It works out that the discounted membership rate for registration far offsets the membership fees for any of the three societies). * As with last year's conference, we will have a Super-Social event with food and drink at the North Carolina Museum of Natural Sciences on the last night of the conference (Tuesday, 24 June). This event is included in the cost of your registration. * You can return to the registration site after you have registered to submit your presentation. Just click on the "Author Center" in the menu once you have logged in. * This year, you will see that we are collecting abstracts for all presentations except lightning talks. We are doing this for two reasons - first, it will provide more information to attendees about your presentation, and second, it will allow us to group presentations into appropriate sessions. * Once all talks have been confirmed, there will be a link for you to upload your presentation. This will happen in early May.

You can get the latest updates by following @Evol2014 on Twitter. And if you want to start a conversation about the conference, be sure to use #Evol2014.

If you have any questions, bugs or error reports, please send an email to organizer@nescent.org.

We look forward to seeing you in 4 months!

Allen Rodrigo Chair, Evolution 2014 Organizing Committee

a.rodrigo@nescent.org

Rennes France InvasiveSpartina Jul7-10

Dear colleagues,

We are pleased to announce the 4th International Conference on Invasive Spartina , *Rennes France July 7-10 (2014)*.

Cordgrasses (Spartina, Poaceae) are perennial plants playing an important role in salt marsh sediment dynamics where they are considered as "ecosystem engineers". Multiple cases of species introduction outside their native range had important evolutionary and ecological consequences on several continents (hybridization with native species, polyploid speciation, biological invasion, shifts in species interaction...). Due to the rapid expansion of some Spartina species, their adaptative potential, their tolerance to various pollutants and their high biomass, they have been used in wetland restoration programs, shoreline stabilization, in phytoremediation and are also considered as a potential bio-energy source for biofuel production. By bringing together international experts from complementary ar-

eas, this conference aims at promoting knowledge exchanges and discussion on the developments accomplished during the last decade in both fundamental biology (evolutionary history of the genus, impacts on ecosystems, evolution of the communities impacted by the invasions) and applied research (management and control of the invasive populations). The contribution of the recent technological developments and advanced genomic approaches to the understanding and use of /Spartina/ will be most particularly explored.

Registration is now open, the link is http://ici-spartina2014.univ-rennes1.fr/ *Some key dates: * Abstract submission deadline for oral presentations: 31 march 2014 * Abstract submission deadline for posters: 31 march 2014 * Early registration deadline 12 May. *

Best regards,

The Scientific Committee: **AINOUCHE Malika < http://ecobio.univ-rennes1.fr/Fiches_perso/-Fiche.asp?pseudo=MAinouche > Univ. Rennes 1 (France) AYRES Debra Univ. California < http://strong.ucdavis.edu/people.html >, Davis (USA) BORTOLUS Alejandro < http://-scholar.google.com.ar/citations?sortby=pubdate&hl=-en&user=itRhVJQAAAAJ&view_op=list_works >, Centro Nacional Patagonico - CONICET, Chubut (Argentina) CASTILLO Jesus < http://www.us.es/-acerca/directorio/ppdi/personal_2248/ > Univ. Sevilla (Spain) GRAY Alan < http://www.isbgmo.com/-bio-gray.html > (Centre for Ecology and Hydrology, UK) PATTEN Kim < http://cahnrsdb.wsu.edu/-newdirectory/individualDisplay.aspx?personID=127 > Washington Sate Univ. USA MORRIS Jim < http://ww2.biol.sc.edu/%7Emorris/ > Univ. South Carolina, Columbia, USA PENNINGS Steve < http://nsmn1.uh.edu/steve/ > Univ. Houston, TX (USA) SALMON Armel < http://ecobio.univ-rennes1.fr/page.php?84#ASalmon > Univ. Rennes 1 (France) STRONG Donald Univ. California < http://strong.ucdavis.edu/ >, Davis (USA)

Malika Ainouche Prof. Univ. Rennes 1 UMR CNRS 6553 Ecobio Bât 14A Campus de Bealieu 35 042 Rennes cedex (France) Tel (33) 2 23 23 51 11

Malika Ainouche <malika.ainouche@univ-rennes1.fr>

Roscoff Viral Emergence Evolution Apr2-6

Dear all,

there are still a few slots available for poster presentations at our Jacques Monod meeting in April.

Please apply before Feb 25, 2014 to avoid an increase in the registration fee.

http://www.mivegec.ird.fr/monod/-CJM_Regoes_en.htm >From emerging to pandemic viruses: interplay between host ecology and viral evolution

April 2-6, 2014, Roscoff (Brittany, France)

Confirmed speakers

ALIZON Samuel (Montpellier, France) - Vice-chairperson (samuel.alizon@cnrs.fr) ARTS Eric (Cleveland, USA) ASQUITH Becca (London, UK) BENKIRANE Monsef (Montpellier, France) BLANC Stephane (Montpellier, France) BONHOEFFER Sebastian (Zurich, Switzerland) CHARBONNEL Nathalie (Montpellier, France) CLAVERIE Jean-Michel (Marseille, France) COBEY Sarah (Chicago, USA) CUNNINGHAM Andrew (London, UK) DE LAMBALLERIE Xavier (Marseille, France) ELENA Santiago (Valencia, Spain) FRASER Christophe (London, UK) GANDON Sylvain (Montpellier, France) GAUDIN Yves (Gif-sur-Yvette, France) GESSAIN Antoine (Paris, France) HAMPSON Katie (Glasgow, UK) JIGGINS Franck (Cambridge, UK) KOSKELLA Britt (Exeter, UK) LEVIN Bruce (Atlanta, USA) LLOYD-SMITH James (Los Angeles, USA) MARTIN Darren (Cape Town, South Africa) PRANGISHVILI David (Paris, France) PYBUS Oliver (Oxford, UK) REGOES Roland (Zurich, Switzerland) - Chairperson (roland.regoes@env.ethz.ch) TURNER Paul (New Haven, USA) VAN BOVEN Michiel (Bilthoven, Netherlands) VIGNUZZI Marco (Paris, France) WEAVER Scott (Galveston, USA) WIMMER Eckard (Stony Brook, USA)

Emerging viruses are recognized to be a threat not only to human health but also to activities, such as crop or cattle farming, and even to endangered species. This Jacques Monod conference will study virus evolution and emergence through an original perspective by focusing on where viruses thrive. A first series of lectures will present virus outbreaks in the wild, ranging from 'classical' topics (ebola in humans) to more unusual viruses (viruses infecting Archae or viruses infecting... viruses). A second series of lectures will present experimental results on outbreaks, with a particular focus on bacteriophages, which are particularly amenable to experimental evolution approaches. Finally, the third series of lectures will focus on deciphering the dynamical processes that can lead to outbreaks of new viruses.

Overall, this conference stands out as one of the few that gathers researchers, who use different approaches (molecular biology, experimental evolution, mathematical modeling) and work on viruses infecting a wide variety of hosts (animals, plants, bacteria, Archae, viruses) but who are all interested in virus emergence.

Registration fee (includes board and lodging, i.e. 4 nights, breakfeast and 6 meals)

420 EUR for PhD students 600 EUR for other participants

Registration might still be possible after Feb 25 but rates will increase.

Application for registration

The total number of participants is limited to 115 and all participants are expected to attend for the whole duration of the conference.

Scientists and PhD students interested in the meeting should send: 1. a very short CV 2. the list of their main publications for the 3 last years 3. the abstract of their presentation to the Chairperson of the conference (roland.regoes@env.ethz.ch) as soon as possible (selection will now mostly be on a first come first served basis).

It is expected that all selected participants present their work during the conference.

Sponsors: CNRS, INSERM, IRD, FEMS, REID, ESV

http://www.cnrs.fr/insb/cjm/2014/Regoes_e.html
Please do not hesitate to forward this announcement to anyone who might be interested.

samuel.alizon@cnrs.fr

RoySoc London PhylogenyExtinction Mar10-11

Dear Colleague,

You are warmly invited to attend a Royal Society scientific discussion meeting.

Phylogeny, extinction risks and conservation < http://royalsociety.org/events/2014/phylogeny-extinction-conservation/ > 10 - 11 March 2014 The Royal Society, London

Register now < http://royalsociety.org/events/2014/phylogeny-extinction-conservation/ >

More information

The integration of phylogenetic information with metrics of extinction risk provides powerful tools for the conservation of phylogenetic diversity. This meeting will present advances and comparative analyses of methodologies used to support conservation efforts. Speakers include Professor Keith Crandall, Dr Katrin Vohland and Dr Sven Buerki.

For more information please contact Camilla Tham at events@royalsociety.org or on 020 7451 2213.

Please feel free to pass this on to any potentially interested colleagues or students.

The Royal Society, 6-9 Carlton House Terrace, London SW1Y 5AG Registered Charity No 207043

"Tham, Camilla" <camilla.tham@royalsociety.org>

Sacramento MolecularBiomarkers Jun8-13

Dear colleagues,

I would like to draw your attention to our Geobiology Session 18f and Death: Molecular biomarkers to study current and past ecosystems for the Goldschmidt 2014 (8-13 June, Sacramento, CA).

Abstract submission will remain open until February 8th, and early registration will end on April 8th. More info at http://goldschmidt.info/2014/index . Conveners: Marco Coolen, Jen Biddle, Laura Epp, Casey Hubert, Bente Lomstein

Keynote speaker: William D. Orsi, University of Maryland.

Session abstract

Molecular biomarkers such as RNA, DNA, lipids, and proteins are used to study currently living environmental organisms that have never been cultivated as well as past organismal assemblages. In this session we seek to explore novel methodological developments using molecular biomarkers in both aquatic and terrestrial environments. How can we discriminate molecular signatures of active, dormant and fossil life? How do taphonomical processes after death change these signatures? How do dormant organisms V or spores V help shape biogeography and biogeochemical functions? What novel insights can be achieved by the inclusion of (ancient) DNA into studies of historical biodiversity?

In particular, we welcome studies which combine different biomarkers to address methodological questions and to provide a highly detailed picture of ecosystem structure and its changes with a special focus on the Holocene.

Laura Epp Postdoctoral Researcher Alfred Wegener Institute Helmholtz Centre for Polar und Marine Research Research Unit Potsdam Telegrafenberg A 43 14473 Potsdam, Germany Telefon:+49-331-288-2208 laura.epp@awi.de

Laura Epp <Laura.Epp@awi.de>

SanDiego ComparativeEvolutionaryPhysiology Oct5-8

Dear Colleagues,

I am writing to inform you of the upcoming Intersociety Meeting in Comparative and Evolutionary Physiology, organized by the American Physiological Society with several sponsoring societies (see below) in San Diego, CA, October 5-8, 2014.

Guy Charmantier (EcoPhysiology, Université Montpellier) and I are organizing a symposium entitled "Overcoming a Major Physiological Barrier: Adaptation from Saline to Freshwater Habitats" (see abstract below).

A list of topic categories is also listed below (e.g. biomechanics, endocrinology, neurobiology, thermal biology, etc).

The website for the conference is available at: www.the-aps.org/comparative, and an overview of the meeting is presented at: http://www.the-aps.org/mm/-Conferences/APS-Conferences/2014-Conferences/-Comparative/Program/Week-at-a-Glance.html A call for abstracts will be made shortly, with abstracts due July 9, 2014. Numerous awards are available for trainees and underrepresented minorities, including the Scholander Award, Best Poster Competition, and Travel Awards. Please visit the "Award Information" page for more information.

Please forward this message to anyone that might be interested in attending this conference.

I hope to see you in San Diego!!!

Sincerely, Carol Lee

Symposium: Overcoming a Major Physiological Barrier: Adaptation from Saline to Freshwater Habitats Invasions of freshwater habitats by marine and brackish organisms have been successfully performed by only a few animal taxa over evolutionary time, and constitute one of the major transitions in the history of life. In addition, recent and rapid colonizations of freshwater areas have resulted from human activities, such as transportation. Invading low salinity environments confronts the animals with serious challenges for maintaining hydromineral balance, mainly in retaining and acquiring ions against adverse gradients, and excreting excess water. Freshwater environments can also be affected by contaminations, either natural or anthropogenic. As natural selection acts on all developmental stages, each must adapt to new conditions before invasion of a novel environment, such as freshwater, can become successful. This symposium addresses various physiological adaptations that have enabled colonizations of fresh water from marine environments over different time scales. Speakers will describe physiological adaptations at multiple hierarchical levels of biological organization, from molecules to organisms and populations, and will discuss several model species or taxa, mainly crustaceans and fish, at different stages of development, from embryos to adults. The talks will explore adaptive responses to challenges imposed by freshwater environments, including the presence of contaminants.

Topic Categories for 2014 APS Intersociety Meeting in Comparative Physiology Biomechanics, locomotion, and functional morphology Cardiovascular and respiratory physiology Conservation physiology Developmental physiology Endocrinology and reproduction Evolutionary physiology Field physiology Metabolism and energetics Modeling and mathematical physiology Nutrition, digestion, and gastrointestinal physiology "-omics" in comparative physiology Osmotic, ionic, and acid-base physiology Sensory physiology and neurobiology Thermal biology Other comparative physiology

Potential Sponsoring Societies: SEB SICB CSZ ANZCPB The Crustacean Society The Physiological Society International Society for Neurochemistry The Crustacean Society International Congress of Vertebrate Morphology Western Society of Naturalists

Carol Eunmi Lee, Ph.D. Professor Center of Rapid Evolution (CORE) 430 Lincoln Drive, Birge Hall University of Wisconsin Madison, WI 53706 carollee@wisc.edu

https://mywebspace.wisc.edu/carollee/web/Lee/-Lee.html Carol Eunmi Lee <carollee@wisc.edu>

Tucson Arizona DeepGenomics Apr3-5

We are pleased to announce the National Science Foundation's Integrative Graduate Education and Research Traineeship (NSF-IGERT) Symposium on Deep Genomics on April 3-5, 2014 in Tucson, Arizona.

Symposium website: http://-www.genomics.arizona.edu/meeting.html The University of Arizona IGERT Program in Comparative Genomics is sponsoring an international meeting on Deep Genomics. The symposium's theme this year encompasses broad scale comparative inferences in the three areas of our training program, including comparative and evolutionary genomics of divergent species, genomics of development, traits, and related interaction networks originating early in evolutionary history, and computational challenges associated with genomics at a broad phylogenetic scale. The meeting will take place at the Marriott University Park Hotel adjacent to the University of Arizona campus in Tucson on Thursday-Saturday, April 3-5, 2014. The format of the meeting will allow considerable time for informal discussion and interaction among participants. Participation by graduate students and postdoctoral fellows is strongly encouraged, and discounted rates for registration will be available.

REGISTRATION Early registration deadline: March 14, 2014 Faculty: $150, Students and Postdocs: $75

Late registration deadline: March 26, 2014 Faculty: $175, Students and Postdocs: $90

KEYNOTE SPEAKER Kenneth Wolfe - University College Dublin, Ireland

CONFIRMED SPEAKERS Robert Beiko - Dalhousie University, Canada William Cresko - University of Oregon Miklos Csuros - Universite de Montreal, Canada Patrick Degnan - University of Illinois Dannie Durand - Carnegie Mellon University Veronica Hinman - Carnegie Mellon University Erin Kelleher - University of Houston Junhyong Kim - University of Pennsylvania Laura Landweber - Princeton University Li-Jun Ma - University of Massachusetts Michael Nodine - Gregor Mendel Institute, Austria Robert Reed - Cornell University Shin-Han Shiu - Michigan State University Joseph Thornton - University of Chicago Travish Wheeler - HHMI Janelia Farm

POSTER SESSION The symposium will feature a poster session. Please refer to the website for more information: www.genomics.arizona.edu/meeting.html Please contact Dr. Michael Sanderson, sanderm@email.arizona.edu, with all scientific queries.

Please contact Mrs. Pennie Liebig, genomics@email.arizona.edu, with all registration or administrative queries.

We hope to see you in April!

genomics@email.arizona.edu

Tulsa Oklahoma PitviperEvolution Jun4-7

Let me present to you the symposium Biology of the Pitvipers 2 (BOPV 2), that will be held in Tulsa, Oklahoma, USA - June 4th - 7th, 2014

Table of contents:

1) Introduction to the meeting

2) Dr. Jonathan A. Campbell named Honoree

3) Schedules, sessions, excursions

4) Registration details

5) The venue and host city

6) Travel arrangements

1) Introduction to the meeting: Nearly 25 years have passed since that memorable first BOPV meeting in 1989. Biology of the Pitvipers 2 symposium is now long overdue for various reasons, but perhaps most significant is the rapid change and advancements in molecular and computational biology. In 1989, DNA technologies were in there infancy, and hence limited phylogenetic inferences of pitvipers. No one present was discussing nuclear genes as markers, Bayesian methods, genomics, or venomics. Furthermore, our world is rapidly undergoing climate changes that will affect reptiles. Indeed, a lot has changed in just two decades. As such, it is the perfect time to revive Biology of the Pitvipers, which offers researches from around the world the opportunity to meet together, present new and exciting research, form collaborations and renew friendships.

Whether you are an academic researcher, are involved in zoos, or enjoy captive husbandry and management of pitvipers, this meeting will be of interest to you.

The meeting will span 4 days, with presentations on the

5th through 7th. The evening of the 4th will feature an ice-breaker and registration. We will have an evening excursion to the Tulsa Zoo, were we will be treated to behind the scenes tours and a BBQ with cash bar. The meeting will also feature a conference banquet (for a small additional charge) with a silent auction (proceeds will go to support The Copperhead Institute and to provide research grants for a number of students.

2) Dr. Jonathan A. Campbell named Honoree: It is the organizing committee's great pleasure to announce that this meeting will be held in honor of Dr. Jonathan A. Campbell (University of Texas, Arlington), in recognition of his outstanding contributions to the field of herpetology and pitviper biology. Dr. Campbell played a pivotal role in the conception and organization of the first BOPV meeting in 1989.

3) Schedules, sessions, excursions:

The meeting will feature seasons covering all aspects of pitviper biology, including:

* Systematics and Phylogenetics

* Phylogeography and Population Genetics

* Morphology and Physiology

* Ecology and Conservation

* Behavior

* Reproductive Biology

* Venom and Snakebites

* Husbandry

Three exciting talks have been scheduled. The plenary will be given by Dr. Harry W. Greene, titled "A Long View of Pitvipers: Past, Present, and Future"; the banquet speech will be delivered by Dr. Todd A. Castoe, titled "Snake Genomics Provide Insight into the Evolutionary Origins of Extreme Phenotypes of Vertebrates"; and our invited featured speaker, Dr. Stephen P. Mackessy, titled "Evolution of snake venoms and venom research".

4) Registration details

Registration and abstract submission is now open and filling up fast. Early registration is available until March 1st, 2014 with a reduction in pricing. The costs are as follows:

Adult: early $145.00 / late $165.00 Student: early $100.00 / late $120.00 Paper presenter: early $75.00 / late $95.00 Accompanying guest: early $55.00 / late $75.00

Saturday Banquet (featuring speaker Dr. Todd Castoe) - $40.00

Registration may be made via secure online payment at: http://www.biologyofthepitvipers.com/-#!registrations-and-costs/c1yng Or via mail using the pdf found at: http://media.wix.com/ugd/-ecb3e9_dfc36a51d1b3053e00bbeb70355ba775.pdf Abstract information can be found at: http://-www.biologyofthepitvipers.com/#!abstracts/c1ugq 5) The venue and host city

The Venue: The meeting will be held at the Doubletree Hilton, downtown Tulsa, which is within 15 minutes of Tulsa International Airport, and just a minutes' walk from the lively entertainment districts. A block of rooms have been reserved for attendees at the host hotel with a reduced rate of $99 per night. This rate is good for a single or double occupancy, and includes free Wi-Fi and free parking. A shuttle is also provided to and from the Tulsa International Airport. The group booking code is CDM.

The City: Tulsa, Oklahoma's second-largest city is a haven of Southern comfort and cosmopolitan style. A town enriched by its oil heritage, Tulsa boasts world-class cultural attractions, including the Philbrook and Gilcrease

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UAlabama Biodiversity Apr22-24

Announcing the EDWARD O. WILSON BIODIVERSITY SYMPOSIUM The University of Alabama | April 22-24, 2014 www.biodiversity.ua.edu Join Dr. Edward O. Wilson and a panel of biodiversity experts for three days of briefings and stimulating dialogue on the state and future of biodiversity on our planet.

SPEAKERS

Dr. Edward O. Wilson, Harvard University Dr. P. Dee Boersma, University of Washington Dr. R. Scot Duncan, Birmingham-Southern College Dr. Ryan Earley, University of Alabama Dr. Scott V. Edwards, Harvard University Dr. Harry W. Greene, Cornell University Dr. Juan Lopez-Bautista, University of Alabama Dr. Jonathan B. Losos, Harvard University Dr. Meg Lowman, North Carolina State University Dr. D. Bruce Means, Coastal Plains Institute and Land Conservancy

& Florida State University Dr. Michael B. A. Oldstone, The Scripps Research Institute Dr. Richard Richards, University of Alabama Dr. Leslie J. Rissler, University of Alabama Dr. Sahotra Sarkar, University of Texas at Austin Dr. Diana H. Wall, Natural Resource Ecology Laboratory & Colorado State University

REGISTRATION is required. Seating is limited to the first 400 registrants.

MORE INFORMATION: biodiversity.ua.edu

Dr. Leslie J. Rissler Associate Professor and Curator of Herpetology Department of Biological Sciences Room 307 Mary Harmon Bryant Hall University of Alabama Tuscaloosa, AL 35487

www.ljrissler.org rissler@as.ua.edu 205-348-4052

rissler@as.ua.edu

UGoettingen SizeShape Apr2-4

Dear Colleagues,

we still have a few slots left for the symposium "Size and Shape - Integration of morphometrics, mathematical modelling, developmental and evolutionary biology". If you still want to save a slot, please note that the registration will be open until Sunday, March 9th. For more information, please refer to: http://www.evolution.uni-goettingen.de/ *Dates: Wednesday, April 2nd - Friday, April 4th, 2014

*Venue: Georg-August-University Göttingen Ernst Caspari-Haus (GZMB) Justus-von-Liebig-Weg 11 37077 Göttingen Germany

*Scope of the Symposium: This symposium attempts to bring researchers from various research fields together to foster interaction and fruitful discussions about the status and the future of research on size and shape related topics. If you work on a project aiming to understand how size and/or shape of complex organisms or organs is regulated, your input is highly appreciated!

*Topics covered: Geometric morphometrics Body size regulation Mathematical modelling Developmental Biology Evolutionary Biology

*Confirmed speakers: Arkhat Abzhanov (Harvard University, USA) Fernando Casares (CABD, Sevilla, Spain) Dagmar Iber (ETH Zurich, Switzerland) Jukka Jernvall (University Helsinki, Finland) Christian Peter Klingenberg (University Manchester, UK) Alistair P. McGregor (Oxford Brookes University, UK) Christen Mirth (IGC Oeiras, Portugal) Philipp Mitteröcker (University Vienna, Austria) Armin Moczek (Indiana University, USA) Alex Shingleton (Michigan State University, USA) Richard S. Smith (MPI Plant Breeding Research, GER) Diethard Tautz (MPI Evolutionary Biology, GER)

*Registration and Abstract submission: http://-www.evolution.uni-goettingen.de/registration.html *Registration fee: payment via bank transfer: 195 EUR payment via credit card: 201,44 EUR

*For more information please visit: http://-www.evolution.uni-goettingen.de/ In case of questions, feel free to contact: nposnie[at]gwdg.de

We are looking forward meeting you in April!

Nico Posnien Georg-August-University Göttingen Johann-Friedrich-Blumenbach Institute for Zoology and Anthropology Department of Developmental Biology Ernst-Caspari-Hause (GZMB) Justus-von-Liebig-Weg 11 37077 Göttingen Germany

Phone: +49 (0) 55139 20817 E-mail: nposnie[at]gwdg.de

nico.posnien@gmail.com

UHawaii Hilo TropicalConservationBiol Apr3-4

Aloha everyone,

We are very pleased to announce the *6th Annual Tropical Conservation Biology and Environmental Science Research Symposium* *to* *be held at the University of Hawaii at Hilo on Thursday, April 3 to Friday April 4, 2014.* Registration is now open. To register as an attendee and/or as a presenter please go to our website at http://tcbes.hilo.hawaii.edu/symposium2014/. The deadline to register is Friday, March 14th*. Our main goal is to encourage undergraduate, graduate students to share their work with University students and the local community as a poster or oral presentation. We also welcome local state and federal agency researchers to participate in sharing the current news/research in Hawaii's conservation scene. We are honored to host our keynote speaker Dr. Rob Robichaux, a founder and president of the Hawaiian Silversword Foundation and Distinguished Professor of Ecology and Evolution-

ary Biology at the University of Arizona. This year's Symposium features a Poster Session in the afternoon on April 3rd and our exciting Silent Auction from 12pm April 3 to 1PM April 4. We are proud to be providing locally sourced refreshments, lunch and pupus for the entire Research Symposium and hope to make this a habit for future symposia.

Because this year marks the 10th Anniversary of the TCBES program, we have several special events scheduled in addition to the Research Symposium. Registration for both events can be done online at the TCBES Symposium website. The first event is an *Alumni & Friends Reception at UH-Hilo the evening following the 2nd day of the Symposium (April 4)*. The reception is an opportunity for alumni and current graduate students to mingle while enjoying no-host cocktails and pupus.

The second event scheduled is a *Post-Symposium Excursion to Hakalau National Wildlife Refuge on Saturday, April 5th*. Participants will learn about banding native birds and go sightseeing in a beautiful forest that is usually open to the public only one day of the year.

Please join us in April to engage with and encourage current students in their conservation research and celebrate 10 years and 100 graduates of the TCBES program! If you have any questions feel free to contact myself or other event coordinators listed on the website.

Mahalo for your time,

Corie Yanger UH-Hilo TCBES M.S. Candidate TCBES Club President cmyanger@hawaii.edu 808.430.0913

Dr. Donald Price Director TCBES Graduate Program Professor of Biology

Science and Technology Building 109 University of Hawaii at Hilo Hilo, HI 96720

donaldp@hawaii.edu

http://tcbes.uhh.hawaii.edu/ http://www.hawaii.edu/uhhbiology/ http://www2.hawaii.edu/~donaldp/ donaldp@hawaii.edu

UToronto Mississauga InvasivePlants Aug6-8

Terrestrial Invasive Plant Species II - Meeting Announcement Plant Invaders: Friends, Enemies, and Interactions

The second Terrestrial Invasive Plant Species (TIPS II) meeting will be held at the University of Toronto Mississauga on 6-8 August 2014. We are inviting presentations on the ecology, evolution, impacts, and management of plants invading terrestrial systems in Ontario, Canada and surrounding areas.

The meeting will focus on plant invaders in an ecological context, with sessions highlighting their interactions with their physicochemical surroundings and with other biota (competitors, herbivores, microbes, biocontrol agents). Goals include: 1) disseminating up-to-date science on the ecology of invasive plants, 2) creating a milieu for sharing best practices among conservation agencies, park managers and others and 3) providing a forum for practitioners and scientists to meet and discuss priorities, emerging threats, and funding opportunities.

We expect about 250 participants, including university students, researchers, resource managers, and government representatives. An initial day will be devoted to registration, a reception, and pre-conference field trips, followed by two full days of presentations, including 20-minute contributed oral presentations, research posters, and networking sessions. Presentations will be organized thematically; we anticipate sessions devoted to management, biocontrol, impacts, ecological interactions, and related topics. Major support has been provided by the Invasive Species Centre and the University of Toronto.

Registration will begin soon; please visit https://secure.utm.utoronto.ca/tips2/ for updates and more information. We hope to see you in Mississauga this summer!

TIPS II Organizing Committee:

Peter Kotanen, Biology, University of Toronto Mississauga; peter.kotanen@utoronto.ca

Sandy Smith, Faculty of Forestry, University of Toronto

Ben Gilbert, Ecology and Evolutionary Biology, University of Toronto

Roberta Fulthorpe, Physical and Environmental Science, University of Toronto Scarborough

Peter M. Kotanen Department of Ecology & Evolutionary Biology University of Toronto at Mississauga 3359 Mississauga Road Mississauga, ON, L5L 1C6 CANADA tel: 905-828-5365; fax: 905-828-3792 skype: peter.kotanen e-mail: peter.kotanen@utoronto.ca http://www.utm.utoronto.ca/~w3pkota/ Peter Kotanen <peter.kotanen@utoronto.ca>

Utah EvolutionOfLice Aug2-7

Overview: The 5th International Conference on Phthiraptera (ICP5) will showcase the latest research on parasitic lice and louse-borne pathogens and endosymbionts. All aspects of theory, principles, methodology, and practice will be addressed. The conference will be held August 2-7th at Canyons Resort in Park City Utah, USA. For more info visit the ICP5 conference website at: http://www.conferences.utah.edu/-icp5/index.html or contact us at: ICP5.UT@gmail.com

The deadline for abstracts and early registration is May 1st, 2014. Students and postdocs are invited to apply for financial assistance. For more info visit the "Student/Postdoc" tab on the conference website. Application deadline for financial assistance: May 1st, 2014.

Sarah E. Bush, Ph.D. Assistant Professor Department of Biology University of Utah 257 S. 1400 E. Salt Lake City, UT 84112 (801) 633-8629

Sarah Bush <dovelouse@gmail.com>

Vienna EED Jul22-25

Dear friends of EvoDevo,

We are pleased to announce that registration is open for the 2014 EED meeting in Vienna. The meeting will be held from 22 to 25 July 2014 at the Campus of the University of Vienna.

Registration:

The meeting fee is 250 euro for non-student members and 190 euro for students (300 euro and 250 euro after the early fee deadline of 30 April 2014). The meeting fee includes lunches on 23, 24 and 25 July 2014. Registration also includes temporary membership in the EED society. The membership fee is 20 euro both for non-student members and students.

To register, please go to the conference page at our website: http://evodevo2014.univie.ac.at/registration
Abstract submission:

Abstract submission is open: the deadline for abstract submission will be 30 April 2014.

We are pleased to present an exciting scientific program of keynote lectures and symposia/minisymposia. (Whereever possible submitted abstracts will be associated with one of the symposia or minisymposia).

Keynote speakers:

Veronica Grieneisen (John Innes Centre, Norwich, United Kingdom) Jean-Jacques Hublin (Max Planck Institute for Evolutionary Anthropology, Leipzig, Germany) Stuart Newman (New York Medical College, United States) Ulrich Technau (University of Vienna, Austria)

Symposia and Minisymposia:

N.B. for a full listing of the symposium speakers, see the Symposia and Minisymposia Vienna 2014 Webpage

Mechanisms of development Organizers: Annemiek Cornelissen, Naomi Nakayama

Ecological and environmental impacts in the evolution of organismal development Organizers: Chris Lowe, Angelika Stollewerk, John Willis

How does developmental robustness facilitate the evolution of biodiversity? Organizers: Rainer Melzer, Günter Theißen

EvoDevo of cranial neural crest populations across developmental systems. Organizer: Georgy Koentges

Less is more: loss of gene functions as a driving force of developmental evolution Organizers: Ingo Braasch, Cristian Cañestro

Uncovering the genomic bases of phenotypic change in the NGS era Organizers: Manuel Irimia, Ignacio Maeso, Juan Pascual-Anaya

EcoEvoDevo - beyond the Modern Synthesis Organizers: Scott Gilbert, Yoav Soen

≪Living fossils≫, myth or reality? Organizers: Patrick Laurenti, Didier Casane

Form and function of structural colour: convergent evolution across multiple kingdoms Organizers: Beverley Glover, Heather Whitney

NEPTUNE ITN: the evolution of sensory systems in the marine environment Organizers: Maria Ina Arnone, Andreas Hejnol

Quantitative EvoDevo in model and non-model organisms Organizers: Benedikt Hallgrimsson, Chris Klingenberg, Ruth Flatscher, Philipp Mitteroecker

Developmental basis of quantitative variation Organizers: Mihaela Pavlicev, Günter Wagner

Perspectives on Wnt signaling Organizers: Wim Damen, Cornelius Eibner

Origin and diversification of regeneration Organizers: Florian Raible

Towards an Extended Evolutionary Synthesis Organizers: Gerd Müller, Werner Callebaut

Quo vadis EvoDevo? Organizers: Manfred D. Laubichler, Cassandra Extavour

What should bioinformatics do for EvoDevo? Omics contribution to EvoDevo Organizers: Ann Burke, Paula Mabee, Günter Plickert, Mark Blaxter

EvoDevo of symmetry in animals and plants Organizers: Sophie Nadot, Catherine Damerval

Plant EvoDevo (title t.b.a.) Organizer: John Bowman, Mitsuyasu Hasebe

Structural organization in vertebrate dentitions: molecules, morphology and function Organizers: Moya Smith, Abigail Tucker

EvoDevo as an approach to understanding communication Organizers: Ulrike Griebel, Oller Koller

Local Organizing Committee

Philipp Mitteröcker Department of Theoretical Biology, University of Vienna

Gerd B. Müller Department of Theoretical Biology, University of Vienna

Isabella Sarto-Jackson KLI Institute, Klosterneuburg

Uli Technau Department of Molecular Evolution and Development, Univ. of Vienna

Kristin Tessmar-Raible Max-Perutz Laboratories, Vienna Biocenter

We look forward to seeing you in Vienna,

The executive committee of the EED:

Frietson Galis Ronald Jenner Gerd B. Müller Peter Olson Michael Schubert Charlie Scutt

Isabella Sarto-Jackson, PhD

Executive Manager KLI Institute isabella.sarto-jackson@kli.ac.at http://kli.ac.at Martinstraße 12 3400 Klosterneuburg, Austria Phone: +43 2243 302740

Isabella Sarto-Jackson <isabella.sarto-jackson@kli.ac.at>

GradStudentPositions

AberystwythU Bioinformatics

Fully Funded PhD Studentship in bioinformatics and metagenomics available in the UK. Closing date 16th February.

Please find more details at: http://www.findaphd.com/search/-ProjectDetails.aspx?PJID=51441&LID0 Thanks,

Chris.

Chris Creevey M.Sc., Ph.D. Reader in Rumen Systems Biology.

Institute of Biological, Environmental and Rural Sciences (IBERS), Aberystwyth University, Room 3.33, Edward Llwyd Building, Penglais Campus, Aberystwyth, Ceredigion, SY23 3FG, UK.

Tel: +44 1970 62 1612 Email: chris.creevey@aber.ac.uk www.aber.ac.uk/en/ibers/staff/chc30 chc30@aber.ac.uk

AuburnU InsectDiversity

The Hardy Lab at Auburn University (http://-www.auburn.edu/) has an opening for a PhD student starting in the fall of 2014. The lab's research is geared towards documenting the taxonomic and ecological diversity of plant-feeding insects, and understanding the evolutionary factors which have generated that diversity. The student will receive training in entomology, systematics, comparative phylogenetics and bioinformatics, and will be aided in the development of an independent research program that relates to the lab's research themes. More information can be found at http://hardylab.skullisland.info . This position has four years of full support from the Auburn Department of Entomology and Plant Pathology.

To apply, please send a CV and a statement of research interests to Nate Hardy (n8@auburn.edu). Review of applications will begin on 28 February 2014, but the position will remain open until filled. Applicants must meet requirements of admission to the Auburn Graduate School (http://www.grad.auburn.edu/).

Nate Hardy Department of Entomology and Plant Pathology Auburn University 301 Funchess Hall Auburn, AL 36849 phone: 334 844-1171 skype: llln8lll

n8@auburn.edu

nbhardy@gmail.com

BielefeldU PopulationGenomics

The deadline for the following position has been extended to February 28th 2014

A fully funded position is available for a highly motivated Early Stage Researcher (ESR) who will be registered for a PhD in the Hoffman lab at Bielefeld University. This position forms part of a Marie Curie Initial Training Network and offers a generous stipend of at least euro 3700 per month, which includes a dedicated mobility allowance. The studentship will provide training in cutting-edge population genomic approaches and offers excellent opportunities for networking plus individually tailored training and industrial placements. The student should therefore be in a strong position after their PhD to pursue a career in either academia or industry.

There is mounting concern over the acidification of the World's oceans. In the 250 years since the onset of the industrial revolution, atmospheric CO2 levels have risen from 280 to 381 parts per million and average ocean pH has fallen from 8.16 to 8.05. Human-driven emissions of CO2 continue to rise and have begun to outstrip even the most pessimistic of IPCC model scenarios. How will life in the oceans adapt to this changing environment? Particular concern has been expressed over organisms with heavily calcified shells such as molluscs, as their ability to extract carbonate ions from seawater and incorporate these into their skeletons may be increasingly compromised.

This position forms part of a Marie Curie Initial Training Network entitled CACHE: Calcium in a Changing Environment, funded by the EU (ref: 605051) and coordinated by the British Antarctic Survey. The aim of this network is to take a coordinated multidisciplinary approach to understanding calcium regulation and shell production in four commercially important shellfish species, the king scallop (Pecten maximus), the Pacific oyster, (Crassostrea gigas), the blue mussel (Mytilus edulis) and the soft shell clam (Mya arenaria). The network comprises 10 partners from 6 European countries, including research institutes, univer-

sities and SMEs. As a member of the network, the student will be expected to work cooperatively within the network, participate in European training events and spend up to 30% of their training with another network partner. Full details of the network can be found at www.cache-ITN.eu . The PhD student will carry out population genomic surveys to (i) conduct a comparative analysis of the population structure of the four shellfish species along a European latitudinal cline; (ii) explore how oceanographic barriers and life-history interact to shape population structure; (iii) determine the relative contributions of genotype and phenotypic plasticity to shell morphology and ultrastructure; (iv) test for signatures of selection at candidate genes involved in calcium regulation and deposition.

We seek a bright and highly motivated candidate who ideally holds an M.Sc. or equivalent in a relevant topic (e.g. population, evolutionary or conservation genetics, bioinformatics). The student will be responsible for developing a bioinformatic pipeline to analyse Illumina Restriction Site Associated DNA (RAD) sequence data. Experience of installing and working with Linux systems, analysing high-throughput sequence data and writing custom scripts is therefore highly desirable, although training can be provided. The ideal candidate will also be able to work both independently and as part of a multidisciplinary team. A high standard of spoken and written English is required.

The student will be based at the Department of Animal Behaviour at Bielefeld University (www.uni-bielefeld.de/biologie/vhf/index.html). The department is the oldest of its kind in Germany and currently hosts six principal investigators, seven postdocs and over twenty PhD students. It offers a stimulating international environment and an excellent research infrastructure including brand new molecular laboratories. The working language of the Department is English.

Bielefeld is a city of 325,000 inhabitants with an attractive historical centre and easy access to the Teutoberger Wald for hiking and other outdoor pursuits. It offers a very high standard of living and is well connected to most major European cities.

To apply for the position, please provide: (i) a letter of motivation including a maximum 2-page statement of your research interests, relevant skills and experience; (ii) a CV including publication list; (iii) names and contact details of three referees willing to write confidential letters of recommendation; (iv) for monitoring purposes only, please clearly state your nationality, sex, and where you saw the advert. All materials should be emailed as a single PDF file to: joseph.hoffman@uni-bielefeld.de with 'CACHE PhD application' in the subject line.

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ClemsonU ArthropodBiodiversity

Graduate position(s) in arthropod systematics and biodiversity of the southeastern U.S.

The newly established Caterino Arthropod Biodiversity Lab at Clemson University is looking for highly motivated graduate students (M.S. or Ph.D.) for the Fall 2014 semester. Specific projects are negotiable, but will address questions centering on the arthropod diversity of the southeastern U.S., from the intraspecific to broad faunistic levels. Projects focused on Coleoptera, incorporating fieldwork, molecular, morphological, and bioinformatic tools will be preferred.

Interested candidates should have a strong background in evolutionary and systematic biology, familiarity with laboratory methods applicable to phylogenetic and phylogeographic problems, and a love of arthropods and entomological fieldwork. Prospective students will have to qualify for admission to the graduate program in the School of Agricultural, Forest, and Environmental Sciences (SAFES). Some initial funding is available, but students will be expected to actively seek and secure support for their projects.

Interested students are strongly encouraged to contact Dr. Caterino before applying. Clemson has no particular deadlines for application, but opportunities for fellowships and other supplementary support will require more immediate action.

For information on the PI and the lab: sites.google.com/site/caterinolab/ For information on the SAFES graduate program: www.clemson.edu/-cafls/student_services/graduate.html Contact Details (after March 15th V but email address is active now): Michael S. Caterino John & Suzanne Morse Chair of Arthropod Biodiversity School of Agricultural, Forest, and Environmental Sciences Clemson University E-143 Poole Agricultural Center Clemson, SC 29634-0310 mcateri@clemson.edu

Michael S Caterino <mcateri@clemson.edu>

ColoradoStateU PlantReproductionStrategies

Graduate position(s) in plant reproductive strategies, pollination biology and pollinator management

Applications are invited from highly motivated graduate students (M.S. or Ph.D.) to join the Pollination and Plant Reproduction Lab now being set up at Colorado State University. Specific projects are negotiable but will address questions concerning plant reproductive responses to abiotic stress, managed pollinators, including honeybees, bumblebees etc., and their health, pollination efficacy, pollinator behavior and management of pollinator habitats. The diversity of projects will provide opportunities for students to develop wide ranging skills from molecular biology to pollinator management and sustainable agro-ecosystem. Successful candidates are expected to spend significant amounts of time working in crop fields monitoring plant responses, pollinator behavior and other activities. The projects will involve collaborating with plant biologists, entomologists, ecologists and extension personnel. Interested candidates will have a background in agriculture or ecology and evolutionary biology with a love for bees and fieldwork. Some funding may be available and students will be encouraged to actively seek independent funding. Those interested are strongly encouraged to contact Arathi Seshadri (arathi@colostate.edu) with a preliminary application (CV, unofficial transcripts, GRE scores, contact information for three references. Additional information will soon be available on the lab website. Candidates should apply to the graduate program at the Department of Soil and Crop Sciences (http://-soilcrop.agsci.colostate.edu/) in order to be considered. Please check the following page for application deadline and other details http://graduateschool.colostate.edu/-prospective-students/apply/ Contact: Arathi Seshadri (H.S. Arathi) Assistant professor Department of Soil & Crop Sciences C 138 Plant Sciences Building, 1170 Campus Delivery Colorado State University, Fort Collins, CO 80525 Email: arathi@colostate.edu

Arathi <arathi@mail.colostate.edu>

Goettingen DPZ PrimateKinRecognition

Master's thesis on kin recognition in mandrills:

In the french-german-gabonese collaboration 'Mandrillus Project' we are looking for a master's student to write her/his master's thesis on possible visual kin recognition mechanisms in mandrills. Within the scope of our study on kin selection in a complex social system, it will be evaluated how indiduals react to visual stimuli of related and unrelated fellows. The experiments will be conducted on caged individuals at the CIRMF reserach institute in Franceville, Gabon. Start of the ca. 3 month of field work will be beginning/mid may. Transport and accomodation are provided; fluid french and the motivation for independend practical work are a prerequisite. Due to the nature of the funding german students will have to be given priority. For further questions and/or applications please contact timo.brockmeyer@gmail.com. See also the links to the collaboration partners: http://www.cefe.cnrs.fr/-mandrillus/presentation; http://www.soziobio.uni-goettingen.de timo.brockmeyer@gmail.com

HolarUCollege Iceland EvolEcolArcticCharr

*Opportunity for a Ph.D. study in Evolutionary Ecology of Arctic charr in Iceland *

Hólar University College (Prof. Bjarni K. Kristjánsson and Prof. Skúli Skúlason), seeks a Ph.D. student to study *the importance of egg size for diversification of Arctic charr (Salvelinus alpinus)*.

In nature, considerable phenotypic diversity occurs at multiple levels: among and within species, populations, and among siblings. Understanding the determinants of phenotypic variation and their consequences for performance remains a challenge for evolutionary biology. One potential source of diversification is egg size mediated maternal effects. However, understanding of how egg size affects offspring performance and diversification among wild populations is limited. Here, we use

polymorphic Arctic charr as a model system and ask: 1) Does egg size contribute to adaptive divergence of populations? And 2) to what extent do maternal effects interact with gene expression in embryos and juveniles? We will quantify variation in egg size and egg number, among and within replicated charr populations that differ in their degree of sympatric divergence. We will combine diet manipulation experiments with cutting edge molecular genetic tools to test for the interactions between egg size and offspring environment and between egg size and gene expression. This study presents a novel approach to understanding the factors responsible for shaping and maintaining biodiversity.

An ideal candidate has solid knowledge and interest in evolution, development and genetics and experience of fieldwork. The student has to be able to work independently, as well as a part of a larger group both in the laboratory and in the field. A M.Sc. degree is mandatory. The working language is English.

Location: the student will be located at Hólar University College and registered at the University of Iceland (Reykjavik). The Department of Aquaculture and Fish Biology at Hólar University College, in Skagafjördur, North Iceland, is an international center for research, instruction, and continuing education in aquatic biology, aquaculture, and fish biology. Part of the laboratory work will be conducted at the University of Iceland.

The project is a collaboration between Hólar University College, the University of Iceland (Dr. Zophonías O. Jónsson, Dr. Sigurur S. Snorrason)and EAWAG, Switzerland (Dr. Katja Räsänen), and is funded for three years by The Icelandic Science Foundation - Rannís. The position will be filled as soon as a good candidate is found (target date 1. May 2014).

Applicants should send an application letter with a max. 1 page statement of research interests and relevant experience, curriculum vitae with a list of publications (if any), copies of academic qualifications and the names and e-mail addresses of three referees, as a single pdf file to Bjarni K. Kristjánsson (bjakk@holar.is) before *March 31 2014*.

For further information contact Dr. Bjarni K. Kristjánsson, Professor and Head of Department of Aquaculture and Fish Biology Hólar University College

bjakk@holar.is <bjakk@holar.is>

Phone:+354 4556386

Dr. Bjarni K. Kristjánsson, Prófessor Deildarstjóri fiskeldis og fiskalíffræideildar /Head of department of Aquaculture and Fish Biology Svisstjóri kennslu- og framhaldsnámssvi/Director of divisions of academic and graduate studies Hólaskóli - Háskólinn á Hólum/ Hólar University College Hólar íHjaltadal Iceland bjakk@holar.is Phone: +354 4556300 holar.is

Bjarni Kristófer Kristjánsson <bjakk@holar.is>

IGC Portugal EvolutionaryBiol

Applications for the 2015 class of the Instituto Gulbenkian de Ciência (IGC; www.igc.pt) PhD Programme in Integrative Biology and Biomedicine are open until March 30th.

The IGC PhD programme exposes students to a wide spectrum of different topics in the biological sciences. Unlike traditional programmes, students in our PhD programme are not required (or even encouraged) to choose a laboratory or topic until they have had a semester to discover the Institute's scientific opportunities, and discuss them with their peers, postdocs and PIs.

The programme normally accepts 9 to 12 students each year. Selected students receive full tuition and stipend support for 48 months.

Candidates of any nationality may apply, and there are no age restrictions. We do require a Master's degree from candidates applying from countries within the Bologna-agreement region, or those with similar 3-year undergraduate degrees. Candidates from a country with a 4 or 5-year university degree are also eligible.

We seek highly motivated students, with total commitment to the pursuit of answers to original questions in a multidisciplinary environment. The IGC PhD Programme welcomes applications from candidates with university degrees in any field, including those outside the life sciences.

Research at the IGC revolves around four main axes: Evolutionary Biology, Quantitative Biology, Integrative Cell and Developmental Biology, and Immunobiology. The broad-scoped nature of the IGC research programme favours original approaches to outstanding biological questions that promote bridges across different disciplines and methodologies.

For a list of the resident research groups:

http://www.igc.gulbenkian.pt/pages/groups.php/A=-143___collection=article___group=1 For further details about the IGC PhD Programme and how to apply:

http://www.igc.gulbenkian.pt/pages/facilities.php/-A=169___collection=article Learn more about the IGC PhD programme in a video featuring PhD students, the Director of the programme, and the Director of the IGC:

http://youtu.be/2nTL0OBf2TU For further information about the IGC: www.igc.gulbenkian.pt Patrícia Beldade Instituto Gulbenkian de Ciência Rua da Quinta Grande 6 2780-156 Oeiras PORTUGAL

Email: pbeldade@igc.gulbenkian.pt

Tel: + 351 - 21 440 7905 Fax: + 351 -21 440 7950

Patrícia Beldade <pbeldade@igc.gulbenkian.pt>

ImperialCollege London MolEvol

UK/EU PhD studentship

Department of Infectious Disease Epidemiology, School of Public Health at Imperial College London. Zoological Society of London (ZSL)

The Department of Infectious Disease Epidemiology is offering one 4-year Industrial CASE studentship funded by NERC. The student will be based in the Department of Infectious Disease Epidemiology < http://www1.imperial.ac.uk/publichealth/-departments/ide/ > (DIDE), School of Public Health, St Marys Campus, Paddington, in CASE partnership with the Institute of Zoology < http://www.zsl.org/-science/ > (IoZ), Zoological Society of London (ZSL).

The project will be on 'Understanding how environmental variation regulates infectious disease emergence in a host community' and will be integrated with our newly-funded NERC project 'The spatial epidemiology and molecular evolution of amphibian chytridiomycosis'. Research will take advantage of a well-described system of ongoing disease outbreaks caused by the globally-emerging amphibian pathogen Batrachochytrium dendrobatidis. Research will be located in the Pyrenees of both France and Spain, and will investigate how seasonal temperature profiles influence disease dynamics both directly and indirectly. Approaches can involve field manipulations, statistical/mathematical modelling and microbiome-profiling of infected lakes. The project will involve extended periods of fieldwork in high montane environments so the candidate needs to be physically fit and able to work independently. French language skills are an asset.

The studentship will pay UK/EU tuition fees and a stipend of £17,500, and the student will belong to the Graduate School which provides a full programme of training in research and transferable skills. The studentship is available to UK nationals or EU nationals who have lived in the UK for at least three years immediately preceding the date of an award. For full eligibility details please see the following Natural Environmental Research Council (NERC) terms and conditions: http://www.nerc.ac.uk/funding/available/-postgrad/schemes/industrial-case.asp *Owing to funding restrictions applications from overseas candidates cannot be considered for this scheme*

Applicants should have, or expect to achieve, a first or upper second class degree or UK equivalent in a relevant subject*. Informal enquiries about the studentship should be directed to Prof. Matthew Fisher < http://www1.imperial.ac.uk/medicine/people/-matthew.fisher/ > (matthew.fisher@imperial.ac.uk)

The closing date for applications for the October 2014 intake is 31st January 2014. Interviews of all short listed candidates will take place on 24th-25th February 2014. Applications should consist of 2 parts, preferably as a combined single PDF document:

1. A full CV which must include your title & full name, date of birth, gender, nationality, first degree (BSc, MSc, MBBS etc), degree class awarded or marks/grades to date, subject of first degree, place of study and university awarding the first degree, and the names, mailing addresses and email addresses of at least two academic referees (The email addresses of your referees should be for their official institution email address. You should not supply personal email addresses from Hotmail/ Gmail /Yahoo etc).

2. A one page statement indicating why you want to undertake this PhD project.

Please ensure that you include your own email address on your CV as this will be our main method of corresponding with you. Please email your completed application to: ide-phd@imperial.ac.uk stating "NERC CASE PhD Application" in the title. Please note that candidates must fulfil College admissions criteria, details of which can be reviewed at: http://www3.imperial.ac.uk/entryrequirements/-graduate matthew.fisher@imperial.ac.uk

ImperialCollege London SyntheticBiol

Fully funded 3.5-year PhD studentship to work at the interface of evolution and synthetic biology.

The project: Synthetic biology offers the tantalizing prospect of assembling custom genomes de novo from different desirable parts. But how easy is it to take components from one system and plug them into another? Can we perhaps even build a functional hybrid genome from eukaryotic, bacterial and archaeal parts? This question not only has practical relevance for designing custom genomes but also provides an acid test for our understanding of genome function. The aim of this project is to elucidate how genetic systems can be assembled from disparate taxonomic sources and thereby provide some initial design principles for building cross-kingdom genomes. To do so, we will reconstruct cross-kingdom gene sharing patterns between bacteria and archaea, identify gene features that facilitate transfer (and might therefore be exploited to enable transfer of otherwise refractory genes), and predict which archaeal genes can, alone or in combination with others, be shuttled into bacterial genomes, and vice versa. Candidate combinations will be tested experimentally by engineering a hybrid genome using Geobacillus species as a scaffold.

The aims of this project are - to elucidate genetic obstacles to inter-kingdom transfer - to explore which gene features (functional class, sequence composition, etc.) are associated with being liable or refractory to transfer - to learn what tweaks may be necessary to enable shuttling of genes normally refractory to cross-kingdom transfer. This is of particular interest to the synthetic biology community because it would unlock previously inaccessible combinations, augmenting the toolkit of synthetic biology as well as providing insights into principles of genome organization and function.

This studentship will provide comprehensive training in both computational (comparative genomics, network analysis) and experimental (molecular biology, genomic engineering) approaches to understanding and manipulating genetic systems, and will be jointly supervised by Dr Tobias Warnecke (Molecular Systems Group, Institute of Clinical Sciences) and Dr Tom Ellis (Centre for Synthetic Biology and Innovation and Department of Bioengineering).

We are looking for a highly motivated student who is keen to combine dry lab and wet lab skills and with a strong interest in evolutionary genomics and/or genome engineering.

To apply please go to http://www.csc.mrc.ac.uk/Jobs/-PhDStudentship/IECBS Application deadline: 15 March 2014

For further details see: http://www.findaphd.com/-search/ProjectDetails.aspx?PJID=3D51895
For informal enquiries, contact me at tobias.warnecke@csc.mrc.ac.uk

Lab websites: http://www.csc.mrc.ac.uk/-Research/Groups/IB/MolecularSystems/ http://-openwetware.org/wiki/Ellis Tobias Warnecke Group Leader Molecular Systems Group MRC Clinical Sciences Centre & Imperial College London

tobias.warnecke@csc.mrc.ac.uk

JamesCookU BarramundiSexGenes

PhD project opportunity on DNA methylation of sex genes in barramundi (Lates calcarifer)

James Cook University (JCU), Townsville, Australia

Barramundi are born male and subsequently sex change into females at 4-5 years of age. This sex change process creates uncertainty in the selection of broodstock in aquaculture, as well as dictating that hatcheries hold large numbers of large male broodstock until they sex change into females. Research suggests DNA methylation of key sex genes may play a role in determining sex in fish, particularly in fish species which exhibit some form of environmental sex determination. As part of a larger project to elucidate the genetic basis of sex change in barramundi, an APA(I) PhD scholarship is available for a student to examine the potential role DNA methylation may have in regulating the sex change process in barramundi.

Accordingly, the JCU Centre for Sustainable Tropical Fisheries and Aquaculture is seeking a high calibre PhD student with a passion for applied science with solid molecular genetics/biology skills and interest/experience in bioinformatics to address this important question in sex determination and change in fish. The student will use next generation sequencing technologies, qRT-PCR, techniques to estimate levels of DNA methylation, and fish husbandry to directly examine if key reproductive genes become increasingly

DNA methylated due to various environmental stimuli under experimental conditions. The student will be part of the Aquaculture Genomics group and work in close collaboration with senior staff and a post-doctoral researcher on the same project. Selection of applicants will be based on merit; to be competitive will generally require First Class Honours or Research Masters.

The scholarship is open for applications until March 3, 2014. The scholarship term is for three years and is in the form of a stipend which can be used to cover living expenses. The value of the scholarship is AU$ 28,000 per annum. Prospective applicants should contact Professor Dean Jerry in the first instance to discuss their research experience and the project itself (email: Dean.Jerry@jcu.edu.au). Applicants must meet the eligibility criteria for entry to the degree of Doctor of Philosophy at James Cook University. Visit the JCU Graduate Research School website < http://-www.jcu.edu.au/grs/prospective/index.htm > (http:/-/www.jcu.edu.au/grs/prospective/index.htm) for further information.

Gregory Maes, Ph.D. Lecturer in Evolutionary and Applied Genetics Centre for Sustainable Tropical Fisheries and Aquaculture School of Marine and Tropical Biology James Cook University Ph: +61 (0)7 4781 4790; E-mail: gregory.maes@jcu.edu.au Office: ATSIP DB145-314 (Molecular Ecology and Evolution Laboratory) Personal webpage: https:/-/research.jcu.edu.au/portfolio/gregory.maes/ School webpage: http://www.jcu.edu.au/mtb/ "Maes, Gregory" <gregory.maes@jcu.edu.au>

LeibnizInst Berlin ClimateAdaptation 2

THIS IS A REMINDER (application deadline: 15.02.2014):

The Department of Ecosystem Research of the Leibniz-Institute of Freshwater Ecology and Inland Fisheries (IGB) in Berlin together with the Free University of Berlin, invite applications for the position of:

PhD student in Evolutionary Biology

Application deadline: 15.02.2014; Starting date: May 2014, or as soon as possible thereafter (interviews will be conducted in March); Duration of the position: 3 years

Project title: *"Evolutionary responses to a global change"*

The PhD student will join the research group of Justyna Wolinska. The group is currently located at the Ludwig Maximilian University of Munich (Germany) but will move to Berlin in March 2014. He / she will study the evolutionary responses of communities and populations which may result from manipulated experimental conditions (i.e. global stressors), using cladoceran *Daphnia*as a model system. The student will also study the impact of manipulated conditions on the spread of infectious diseases and host-parasite coevolution (using *Daphnia* and their microparasites as a model host-parasite system).

This project is part of a research initiative around a large experimental setup located at Lake Stechlin near Berlin. "Lake Lab" (http://www.lake-lab .de/) consists of 24 experimental lake-water basins each 9 metres in diameter and around 20 metres deep, all isolated from the rest of the lake. In these experimental cylinders, future climatic scenarios are simulated and their effects on the lake studied. The overarching goal of this large research initiative is to find out if and how biodiversity will be affected as a result of climate change.

The PhD student will be involved in screening temporal changes in *Daphnia*populations using microsatellites and SNP markers, and he / she will study changes in gene expression of *Daphnia* induced by environmental conditions. Moreover, the PhD student will track temporal variation in parasite populations using NGS. Depending on the interest of the student, he / she can be further involved in field and / or experimental work.

The ideal candidate should be familiar with molecular methods and have a strong background in evolutionary biology. In addition, knowledge of bioinformatics and/or population genetics will be highly advantageous. Excellent communication and writing skills in English, good work ethic, and creative thinking are desired. A Master's degree (or equivalent) in biology is necessary for admission. The working language of the group is English.

The student will participate in the organized PhD program and will take courses at the Free University of Berlin. In addition, the student will have the chance to collaborate intensively with researchers from IGB as well as from other institutions. Generous funds are available to cover attendance at national and international conferences as well as research stays (lab rotations) in other universities.

Applications should include 1) a letter of interest with a description of relevant experience, 2) curriculum vitae,

3) abstract of the Master's thesis, 4) a list of publications (if any), 5) the names (with e-mail addresses) of two potential referees. Applications should be submitted as a SINGLE (!) PDF document to the following e-mail address: wolinska@bio.lmu.de , with the subject line: "PhD application <your family name>".

– Justyna Wolinska Ludwig-Maximilians-Universität München Department Biologie II Evolutionsökologie Grosshaderner Str. 2 82152 Planegg-Martinsried, Germany

Phone: +49 (0)89 2180 74201 Fax: +49 (0)89 2180 74204 email: wolinska@bio.lmu.de

http://www.evolutionary-ecology.bio.lmu.de/-people/assistant_profs/wolinska/index.html
http://www.evolutionary-ecology.bio.lmu.de/
http://www.igb-berlin.de/ Justyna Wolinska <wolinska@bio.lmu.de>

MNHN Paris6U EvolutionaryMetagenomics

Hello,

Please find below the description of a graduate position on 'Network analyses of the impact of a quick dietary shift in the gut microbiome of the lizard species, Podarcis sicula'

This PhD proposal aims at determining what it takes (in terms of microbiome changes) to become an herbivorous lizard in less than 35 years.

Most lizards are insectivorous. Yet, several species and populations of lacertid lizards have evolved toward an omnivorous or even herbivorous diet. Our model system, Podarcis sicula, a lizard species has shown rapid evolution of feeding and digestive tract morphology in manipulated populations. In 1970, five breeding pairs of the insectivorous P. sicula were transferred from the islet of Pod Kopite to the islet of Pod Mraru, Croatia. 36 years later (representing about 30 P. sicula generations), the transplanted P. sicula on Pod Mraru had become mostly herbivorous. This dietary shift resulted in changes in head size and bite force among the populations on the two islands, and most striking changes in the lizards guts, since the herbivorous Pod Mraru lizards had developed an elaborate hindgut chamber with cecal valves, which had not been seen in any other population of P. sicula. These valves facilitate plant digestion by the gut microbial community of the lizard hosts. With the advances of next generation sequencing, this system offers a unique opportunity to investigate the impact of this dietary change at the level of the microbiome using metagenomic and metranscriptomic data. We will take advantage of the inclusive powerful comparative framework offered by sequence similarity networks, and exploit concepts of graph theory, to analyze the functioning and the evolution of genetic diversity of the lizard gut microbiomes in such massive datasets. In short, we will address the following questions through a comparison of the gut microbiomes of insular herbivorous lizards and of their insectivorous relatives:

1) Does the taxonomy of the microbiome correlates with the diet? 2) What changes in gene content and functions did the dietary shift produce? In particular, what gene families were acquired/lost during this transition? 3) What role did the gut mobilome play in these functional changes? 4) Overall, were the changes mostly functional (and through lateral gene transfer) or taxonomical (through a deep change of the microbial populations)

To tackle these issues, the candidate's main goal will be to use and develop novel exploratory methods, based on sequence similarity graphs to describe and compare the taxonomical and functional diversity of metagenomes and metatranscriptomes of gut microbiomes of lizards, and to assess the possible impact of lateral gene transfer within this microbial community in this remarkable adaptive shift.

He/ she will work within a consortium of friendly herpetologists (Anthony Herrel), computer scientists (Philippe Lopez) and evolutionary microbiologists (Eric Bapteste), and be hosted in the University Pierre and Marie Curie and in the National Museum of Natural History, in Paris.

Ideally, the candidate should have some background in bio-informatics (to use and improve our labs existing tools) and a strong interest for evolutionary biology. He/she will benefit from a Labex BCDiv grant (1757 euro /month for 3 years.) and will be enrolled in the doctoral program at the Muséum National d'Histoire Naturelle in Paris with a start date of September 1st 2014.

Potential candidates should send a CV, two letters of recommendation, a pdf copy of their master's thesis, and a letter of motivation in English to Eric Bapteste (eric.bapteste@snv.jussieu.fr) and Anthony Herrel (anthony.herrel@mnhn.fr). The applications will be closed June 20, 2014. The three top-ranked candidates will be invited for an interview.

epbapteste@gmail.com epbapteste@gmail.com

MasseyU ComputationalBiology

PhD Scholarship in Computational Biology

I am looking for a motivated and productive PhD student to join my computational biology research group. My team conducts research in several related areas, particularly evolutionary genomics, simulation modeling and complex systems. Potential study topics include i) using genome-level data to reconstruct human prehistory in the Pacific region, ii) using approaches from complexity science to infer how genetic diversity interacts with social behaviors in small communities, and iii) using high throughput RNA-sequencing to determine universal rules behind gene expression in allopolyploid species. Candidates' proposed research must fit with my group's existing research interests, and must be computational (i.e., not primarily field- or lab-based). Candidates with an interest in population genetics are particularly encouraged to apply.

Candidates must have solid quantitative skills, preferably including expertise in statistics and programming. Some background knowledge of biology is preferred, but training in other subject areas (such as next gen sequencing or anthropology) can be provided as required. Candidates with non-standard backgrounds (e.g., statistics, computer science, mathematics, physics) are encouraged to apply.

A generous tax-free stipend and payment of all tuition fees are guaranteed for three years, with a probation period of one year prior to full confirmation.

The PhD position will be based in the Computational Biology Research Group at Massey University, New Zealand. My research team is firmly embedded in the international scientific community, with extensive collaborative links to Australia, Indonesia, Europe and the United States. This position offers a rare opportunity to experience New Zealand's unique natural and cultural environment. Palmerston North, a university town with a large international community, offers a full range of social and cultural amenities. The city is located close to both mountains and the sea, and presents regular opportunities for hiking, skiing, surfing and adventure sports.

If you have any questions, please contact Assoc Prof Murray Cox (m.p.cox@massey.ac.nz). Information about the Computational Biology Research Group (http://massey.genomicus.com) and the Institute of Fundamental Sciences (http://tinyurl.com/ifsmassey) is available online.

To apply, please send by email (preferably in PDF format):

1. A brief statement of research interests, qualifications and experience. 2. A curriculum vitae. 3. The names and contact details of three referees willing to provide a confidential letter of recommendation upon request.

Informal enquiries are welcome. We will begin reviewing applications starting 9 March 2014 and the position will remain open until filled.

Assoc Prof Murray P. Cox Institute of Fundamental Sciences Massey University Private Bag 11 222 Palmerston North 4442 NEW ZEALAND

http://massey.genomicus.com m.p.cox@massey.ac.nz

murray.p.cox@gmail.com

Paris6U EvolutionaryBioinformatics

Hello,

Please find below the description of a graduate position on 'the search for mosaic genes and genomes in large similarity networks'.

Gene and genome evolution undergo complex processes. In addition to gradual mutations within a single gene family or within a particular genome, genes and genomes component parts can also originate from distinct source lineages due to non-tree like evolutionary processes. Such gene and genome remodeling produces adaptations through changes involving genetic material from outside a given gene family and/ or a given genome. Therefore, studying this reticulate evolution requires the development of original methods to study not only the origin of a given adaptation but eventually the multiple origins of a given adaptation. It remains an important empirical question to determine the extent, and the functional/ evolutionary import of genes and genomes mosaicism.

A wealth of molecular data from metagenomic, single cell metagenomic, and microbial genomes projects is now available to address this fundamental issue, and to broaden the scope of the evolutionary research program to investigate evolving objects with multiple ori-

gins. Sequence similarity networks offer a promising complementary niche to phylogenetic methods, to further exploit the complexity of these data. These graphs allow for mathematical analyses of genetic diversity and similarities over dozens of millions of sequences, providing a powerful framework to address the evolution of composite genes and genomes.

To further develop these tools, our lab is now looking for a PhD student in bio-informatics, who will be funded for three years by an ERC grant (for a salary of 35,000 euros/year; approximately 1753 euros/ month after taxes). The candidate will take advantage of graph properties and algorithms from the graph theory, inspired from the study of social, regulatory, and interaction networks to develop approaches that:

- considerably expand our existing networks by gathering sequences from publically available genomic and metagenomic projects;

- systematize the detection of patterns suggestive of composite sequences and genomes.

The candidate will then investigate the biological properties (functional, taxonomical and environmental distributions) of the candidate composite sequences to infer what functions, genomes and environments are more affected by gene remodeling, with a particular focus on the evolution of photosynthetic eukaryotes.

He/ she will work within a consortium of friendly bioinformaticians (Philippe Lopez), evolutionary biologists (Eric Bapteste), and graph theorists (Michel Habib, Laurent Viennot), and be hosted in the University Pierre and Marie Curie in the center of Paris, France. The current team description and publications can be found at: http://www.evol-net.fr/ The candidate should have a good background in bio-informatics, and/or a strong interest for evolutionary biology. The position will start as soon as possible, ideally as early as June 2014. Applicants are requested to send a detailed resume, a motivation letter, a pdf copy of their masters thesis, and the names of two scientific referees to : eric.bapteste@snv.jussieu.fr

The applications will be closed May 15, 2014.

Eric Bapteste <epbapteste@gmail.com>

Prague FishEvolution

PhD position available from *October 2014*

Gene expression analysis in highly polyploid and hybrid sturgeons in the Laboratory of Fish Genetics, Institute of Animal Physiology and Genetics (Libìchov), Czech Academy of Sciences, Charles University (Prague), Department of Zoology and Laboratory of Molecular, Cellular and Quantitative Genetics, Faculty of Fisheries and Protection of Water, University of South Bohemia (È.Budìjovice).

Project background: Polyploidy is an extraordinarily important evolutionary mechanism contributing to huge biodiversity of contemporary fishes. Similarly, the ease with which polyploidy of various degrees occurs naturally or can be induced experimentally by means of different approaches, gives evidence for significance of this biological phenomenon associated with fish genome plasticity. However, there are only few phenomena in fish biology and genetics on which we have so incomplete, fragmentary and sometimes biased knowledge like on polyploidy of fish. Sturgeons (Acipenseridae) together with paddlefishes (Polyodontidae) are the oldest living group of actinopterygian fishes, living fossils which literally “forgot to extinct”. They diverged from the vertebrate phylogenic tree, similarly to gars after having passed two rounds of genome duplication. Chromosomes of these fish also do not exhibit, except for gars, similarity to those of other actinopterygians and chromosome numbers give evidence of the large role of polyploidization events when forming the genome of acipenserid fishes and karyological studies, flow cytometry and DNA content measurements distinguish 4 naturally existing ploidy levels: paleo4n, paleo8n, paleo9n and paleo12n species with ~120, ~240, ~270 and ~360 chromosomes, respectively. In this project we plan to investigate gene expression in sturgeons of different ploidy levels and also in interspecies hybrids with elevated ploidy levels using methods of RT-PCR, RNA FISH combined with DNA FISH and DNA/histone methylation status. This work will be performed in the context of genome size assessment (flow cytometry) and molecular cytogenetic karyotype descriptions.

For more information, visit: http://www.iapg.cas.cz/-uzfg/index.php?p=3Dsekce&site=3Ddefault&id=-3D12 or email symonova@natur.cuni.cz

Eligibility: We expect a motivated student with experience in ichthyology or cold-blooded vertebrates biology. The ideal candidate for this position is interested in molecular biology, genetics and evolutionary biology, and is willing to learn new methods. He/she must have finished the MSc (or equivalent) by September 2014 at the latest.

Time and place: The student will work in the Laboratory of Fish Genetics, Institute of Animal Physiology

and Genetics, Czech Academy of Sciences in Libìchov (close to Mìlník), Czech Republic. Partly also in the Laboratory of Molecular, Cellular and Quantitative Genetics, Faculty of Fisheries and Water Protection, University of South Bohemia in Èeské Budìjovice. The position is available for up to four years, starting in October 2014.

Salary: The PhD candidates net monthly income will start at 9.000 CZK/month netto and University scholarship (6.300 CZK/monthly in the first year) and may progressively increase with experience and achievements during the study. There will be a direct support from a new GA ÈR (Grant Agency, Czech Republic) project (living expenses in the Czech Republic are generally lower than in Western European countries).

Research team: *dr. Radka Symonová* (Lab. of Fish Genetics in Libechov, Dept. of Zoology, Charles University, Prague) supervisor; *prof. Petr Ráb*(Lab. of Fish Genetics) co-supervisor; *prof. Martin Flaj[1]hans* (Faculty of Fisheries and Water Protection, University of South Bohemia) co-supervisor.

How to apply: If interested, please, send a letter of interest, CV, list of publication, title and abstract of Master/Diploma thesis, and contact details of 2-3 senior scientists for references on you in a single PDF file to *symonova@natur.cuni.cz* until February 28, 2014. http://www.iapg.cas.cz/uzfg/ Pre-selected candidates will be encouraged to submit an official application to the university.

Mgr. Radka Symonová, Ph.D. E-mail: radka.symonova@natur.cuni.cz

Laboratory of Fish Genetics Institute of Animal Physiology and Genetics Czech Academy of Sciences Rumburska 89 CZ - 277 21 Libechov Czech Republic

Department of Zoology Charles University in Prague Faculty of Science Albertov 6, 128 43 Praha 2 www.natur.cuni.cz/en symonova@natur.cuni.cz

PurdueU HellbenderConservation

Title: PhD Assistantship - Hellbender Ecology and Conservation

Agency: Purdue University

Location: West Lafayette, IN

Job Description: Seeking a highly motivated student for a fully funded PhD position focusing on hellbender ecology and conservation. The selected candidate will evaluate larval hellbender captive rearing techniques, assess post-release movements and survival, and characterize juvenile hellbender habitat use. This project will consist of intensive field work combined with extensive travel to field sites located in southern Indiana. Transportation and off-campus housing will be provided. Graduate position begins in August 2014, but opportunities for field work can begin in May 2014.

Qualifications: A student with an MS in herpetology or related field is preferred although exceptional applicants with a BS will be considered. Experience using radio- telemetry is desired. Applicants must have a strong work ethic and the ability to work both independently and as a member of a research team. Excellent interpersonal skills are essential. Applicants will work closely with a diverse group of state wildlife biologists, private landowners, and supervise field technicians. Potential applicants are encouraged to visit https://-ag.purdue.edu/fnr/Pages/gradadminguide.aspx to ensure they meet the minimum departmental requirements for admission. Students that do not meet minimum requirements will not be considered. Experience in the peer-reviewed publication process is desired.

To apply, electronically submit a cover letter stating research and career interests, CV (including cumulative GPA and GRE scores), and contact information for three references to Dr. Rod Williams (rodw@purdue.edu).

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

Stipend: ~$20,000/yr

Last Date to Apply: March 1, 2014

Contact: Rod Williams E-mal: rodw@purdue.edu

Phone: 765-494-3568 Web: http://-web.ics.purdue.edu/~rodw/ Steve Kimble Postdoctoral Research Assistant, Department of Forestry and Natural Resources Purdue University skimble@purdue.edu sjkimble@gmail.com http://web.ics.purdue.edu/-~rodw/sKimble.php sjkimble@gmail.com

UBasel MicrobialGenomics

PhD-position in microbial genomics and host-pathogen interactions at the University of Basel, Switzerland

A PhD fellowship is available in the group of Dieter Ebert at Basel University, Basel, Switzerland. I am looking for a highly motivated candidate with interests in evolutionary genomics and host-parasite interactions. The PhD project is concerned with the bacterium Pasteuria ramosa, a pathogen of Daphnia magna. The aim of the project is to gain insights into the genetic interactions of the pathogen and its host using genomic and experimental approaches. Part of the project will be worked out with the candidate, to accommodate interests and strength. The position is supported by the Swiss National Science Foundation and the University of Basel. The research group covers the entire range from epidemiological and ecological aspects of host-parasite interactions, to studies on the population genetics and genomics of hosts and parasites. Work is carried out in the field and in the lab. For more information see: http://evolution.unibas.ch/-ebert/ Some recent publications related to the project: - Luijckx, P., H. Fienberg, D. Duneau, and D. Ebert. 2013. A Matching-Allele Model Explains Host Resistance to Parasites. Current Biology 23:1085-1088. - McElroy, K., L. Mouton, L. Du Pasquier, W. Qi, and D. Ebert. 2011. Characterisation of a large family of polymorphic collagen-like proteins in the endospore-forming bacterium Pasteuria ramosa. Research in Microbiology 162:701-714. - Duneau, D., P. Luijckx, F. Ben-Ami, C. Laforsch, and D. Ebert. 2011. Resolving the infection process reveals striking differences in the contribution of environment, genetics and phylogeny to host-parasite interactions. Bmc Biology 9.

Starting date for the PhD is negotiable (any time from April 2014 onwards). German is helpful in every day life, but the working language in the group is English. A Diploma or Master degree (or equivalent) in biology or related subject is necessary for admission.

Please send your application by email (all material in one PDF please) to Dieter Ebert. Applications should include a CV, a list of publications and a statement about research interests. Please give names and email addresses of two persons who are willing to write a letter of recommendation. Application deadline is 25. Feb. 2014.

Further information and address for application: Prof. Dr. Dieter Ebert, University of Basel, Institute of Zoology, Basel, Switzerland, Email: dieter.ebert@unibas.ch Tel. +41-(0)61-267 03 60, Fax +41-(0)61-267 03 61. Web: http://evolution.unibas.ch/ebert/ Dieter Ebert Universität Basel, Zoologisches Institut, Vesalgasse 1, 4051 Basel, Switzerland Tel. +41 (0)61 267 03 60 Email: dieter.ebert@unibas.ch

dieter.ebert@unibas.ch

UBern CooperativeBreedingEvolution

Master position "How are social behaviours and social cognition related to helping behaviours in a cooperatively breeding fish?"

This project will be carried out in the context of a large-scale breeding scheme of a PhD project on the genetic basis of helping behaviour in the highly social African cichlid Neolamprologus pulcher. These fish have turned into a model species for studies of social evolution based on detailed information about their ecology and behaviour, excellent possibilities for behavioural and physiological experiments and recent sequencing of their full genome. In this cooperatively breeding species, the offspring stay in their natal territory and assist the breeder pair with territory maintenance, brood care and defense. The main focus of the breeding experiment is on how juvenile fish help the breeder pair with brood care: cleaning eggs from fungus and defending the clutch against an egg predator. In the master project behavioural tests will be done assessing whether certain social behaviours (e.g. aggressiveness, submissiveness, the ability to compete for a shelter, etc.) are inherited in connection with helping propensity in this fish species by comparing these traits among siblings and non-relatives.

The master student will be supervised by Prof. Dr. Barbara Taborsky and Claudia Kasper (PhD student). We are looking for a strongly motivated student with a Bachelor's degree preferably in Behavioural Ecology/Ethology or a related discipline. Experience with fish is beneficial but not required. The project should be started ASAP (ideally April/May 2014). No funding is available but we will provide support and assist the candidate if he or she wishes to apply for a grant.

The Ethologische Station Hasli of the Division of Behavioural Ecology of the University of Bern, situated in a picturesque forest a few minutes from the city of Bern, is a bustling research environment consisting of ca. 7 PhD-students and advanced research staff and a varying number of master's students and guest scientists. Besides our Behavioural Ecology group, the Institute of Ecology and Evolution at the University of Bern comprises research groups in Aquatic Ecology (Ole Seehausen), Community Ecology (Wolfgang Nentwig), Conservation Biology (Raphael Arlettaz), Evolu-

tionary Ecology (Heinz Richner) and Population Genetics (Laurent Excoffier). The city of Bern, a UNESCO world heritage, is situated only 30 min from the High Alps of Switzerland. Please visit our website for more information: http://behav.zoology.unibe.ch . Application: To apply (in English or German), please send a letter of motivation, providing a short overview of your interests and experience, and your CV to:

claudia.kasper@iee.unibe.ch barbara.taborsky@iee.unibe.ch

Claudia Kasper PhD student Division of Behavioural Ecology Institute of Ecology and Evolution University of Bern, Switzerland

claudia.kasper@iee.unibe.ch

UCalgary EvolutionDiseaseEmergence

Graduate opportunity PhD student Emerging Infectious Diseases in Arctic Wildlife (Muskoxen) Application deadline: February 26, 2014

We are seeking a highly motivated and energetic PhD student to join our Research Group in ArcticWildlife Health starting in September 2014 or January 2015. This position is based in the Department of Ecosystem and Public Health at the Faculty of Veterinary Medicine, University of Calgary. The successful applicant will work under the primary supervision of Drs. Susan Kutz (Arctic wildlife health specialist) and Karin Orsel (veterinary epidemiologist) and within our multidisciplinary and multi-agency network to investigate aspects of the emergence of Erysipelothrix rhusiopathiae in muskoxen in the Canadian Arctic archipelago.

Qualifications: Candidates should be industrious, passionate about science, and must have demonstrated competence as team players. Strong interests in ecology or molecular epidemiology are desired. An MSc or similar degree in wildlife disease ecology or a related field is desirable. A veterinary degree is an asset, but not essential. A GPA of >3.5 on a 4.0 scale is required, as this position is part of the University[1]s Eyes High program (https://www.ucalgary.ca/eyeshigh/).

Application deadline: February 26, 2014, or until suitable applicants are identified. Email application, a letter of introduction describing research interests and experience, a current CV, an unofficial copy of transcripts, and 3 references to:

Supervisor Dr. Susan Kutz, skutz@ucalgary.ca http://people.ucalgary.ca/~kutzrg/ Ecosystem and Public Health Faculty of Veterinary Medicine University of Calgary

Or

Co-supervisor Dr. Karin Orsel, Karin.orsel@ucalgary.ca http://wcm.ucalgary.ca/orselresearch/ Production Animal Health Faculty of Veterinary Medicine University of Calgary

Karin Orsel DVM, MSc, PhD, Dipl. ECBHM Faculty of Veterinary Medicine: Dept of Production Animal Health Faculty of Medicine, Dept of Community Health Sciences Associate Professor Epidemiology, Infectious Diseases of Cattle 3330 Hospital Drive NW HSC 2516 Calgary, AB, Canada, T2N 4N1 Tel (office): 1 403 210 6127 <tel:1%20403%20210%206127> Fax: 1 403 210-9466 http://wcm.ucalgary.ca/orselresearch/ Karin Orsel <karin.orsel@ucalgary.ca>

UFribourg ComputationalPopGenetics

PhD position in Computational Population Genetics in the Statistical and Computational Evolutionary Biology group at the University of Fribourg, Switzerland, founded by a grant to Prof. Daniel Wegmann.

Who we are: We are a young and enthusiastic group at the University of Fribourg, aiming at characterizing the evolutionary and ecological processes shaping the realm of biological diversity we see today. To achieve this, we design and evaluate new statistical and computational approaches to infer complex evolutionary histories and subsequently, apply them to the wealth of data currently being generated, primarily from the latest sequencing approaches.

Your tasks: Currently, we seek a highly-motivated PhD student to join our research group and to address the question of inferring selection from genetic data by developing novel statistical and computational approaches. While a wide array of such approaches will be explored, a particular focus of the work will be on the extension and application of Approximate Bayesian Computation (ABC) algorithms to infer locus specific selection coefficients and hence the distribution of fitness effects from linked and unlinked loci. We envision applying the developed approaches to large data sets from both Drosophila melanogaster as well as hu-

mans, but the target species is open for the candidate to choose.

What we offer: We offer a stimulating research environment, well embedded in the strong evolutionary- and population genetics community in western Switzerland. We are part of the Swiss Institute of Bioinformatics (SIB) and boost excellent research facilities, including state-of-the-art computational infrastructures. Fribourg is a lively university town with pleasant surroundings (such as the Alps) and an excellent quality of life. It is located only 20 minutes from the capital of Switzerland, Bern, and just a little over an hour from Geneva and Zürich. While some knowledge of German or French is beneficial for living in Switzerland, it is not essential. The working language in our institute is English.

What you bring: Applicants for this position should have a Master degree (or equivalent) in population genetics/genomics, bioinformatics, computational biology or computer science. Good knowledge of written and spoken English is expected. Experience in programming (especially C++) is an asset.

Starting date is flexible, but earliest is May 2014. Funding is provided by the Swiss National Science Foundation and available for three years (with the possibility for extension). To receive full consideration, applicants should submit a single PDF file by e-mail with the following items before March 31 to daniel.wegmann@unifr.ch:

* A cover letter with a brief summary of previous research experience and professional motivation * Curriculum Vitae * Copies of degree certificates and list of coursework, including grades * Names, addresses and e-mails of two professional references

Further information: http://www.unifr.ch/biochem/-index.php?id=789 https://www.isb-sib.ch/groups/-fribourg/sceb-wegmann.html phaentu@gmail.com

UGothenburg SystematicBiology

Please help advertising this position to all potential candidates:

The project "Phylogenetic and biogeographic analysis of the genus Pavonia (plant family Malvaceae) using gene capture and Next Generation Sequencing" seeks to answer the following questions: How are the species of Pavonia related? Are the polyploids in the genus of hybrid origin, and thus is the phylogeny a network? Is there a pattern in the timing of when polyploidy arose? What is the biogeographic history of the genus? What factors (e.g., geographic, edaphic, biotic) can explain the high number of species in the neotropics?

There is scope within the project for significant methodological development, probably in collaboration with theoretical systematists/mathematicians.

Read more and apply at:

http://www.gu.se/english/about_the_university/-announcements-in-the-job-application-portal/-?languageId=0&disableRedirect=true&id=-19144&Dnr=588435&Type=E or http://antonelli-lab.net Best wishes

Bernard Pfeil and Alexandre Antonelli

Dr. Alexandre Antonelli Associate professor, Scientific curator http://antonelli-lab.net Department of Biological and Environmental Sciences University of Gothenburg Carl Skottsbergs gata 22B, 413 19 Göteborg, Sweden Mobile: + 46 (0) 703 989570 E-mail: alexandre.antonelli@bioenv.gu.se

Alexandre Antonelli <alexandre.antonelli@bioenv.gu.se>

ULeuven DamselflyEvolutionaryEcol

PhD studentship: Effects of urbanisation in a damselfly

GENERAL THEME: Evolutionary ecology of population differentiation along an urbanisation gradient in damselflies. The PhD project will be part of a larger research program on urbanisation where we address following questions in the damselfly Coenagrion puella: (1) how do larvae and adults differentiate phenotypically along an urbanisation gradient; (2) how does this affect ecological interactions with conspecifics (sexual selection) and natural enemies (predators and parasites); (3) how does this affect interactions with stressors such as pollutants and heat waves? Candidates are encouraged to develop and pursue their own ideas within this project. There is the possibility to extend this project with a latitudinal component thereby linking to ongoing projects on latitudinal differentiation in damselflies in our research team.

PRACTICAL WORK will be a combination of monitoring natural field populations and common garden experiments in the laboratory. We have excellent research facilities with an outdoor research area, temperature-

controlled rooms, incubators, and a well-equipped laboratory for quantification of behavioural and physiological traits. The candidate will analyze and publish existing datasets and is expected to also collect new data.

PROFILE: Master in Biology or related field with an excellent academic record, and a strong proven interest in experimental evolutionary ecology. Good knowledge of English and a car driving license are required.

OFFER: A full time job initially for a period of one year, but extendable to a total of ca. 3.5 years pending good evaluation. Leuven (http://www.leuven.be) is a pretty historical university city with a very high and pleasant standard of living. The historic university, founded in 1425, has a top research and teaching standard (http://www.kuleuven.be/english). You will be embedded in an international, enthusiastic and dynamic team with ample expertise in evolutionary ecology using damselflies as model system (http://-bio.kuleuven.be/eeb/laeec/whoiswho/00034380).

INTERESTED? Please send your CV, a letter of motivation including relevant experience in evolutionary ecology (!), and two reference letters as a single PDF to Prof dr. Robby Stoks (robby.stoks@bio.kuleuven.be).

Applications will be reviewed until the position is filled. The position starts spring 2014, preferentially as soon as possible.

robby.stoks@bio.kuleuven.be

UMelbourne FemaleOrnamentation

PhD opportunity - The function of female ornamentation in lovely fairy-wrens.

An exciting PhD opportunity is available to investigate the function of elaborate female song and plumage in a cooperatively breeding bird, the lovely fairy-wren (Malurus amabilis). The student will be based in the Evolution and Behaviour Group in the Department of Zoology at the University of Melbourne and supervised by A/Prof Raoul Mulder and Dr Michelle Hall, with fieldwork carried out in Cairns in north-eastern Australia.

Darwin's theory of sexual selection has been remarkably successful in explaining how elaborate signals evolved in male animals, but whether similar processes drive the evolution of female signals remains controversial. This project will test competing hypotheses for the evolution of sexual differences by investigating selection on male and female plumage and song ornaments in the lovely fairy-wren. In contrast to most of the other species in this iconic genus, female lovely fairy-wrens have brilliantly colourful plumage, but they have never previously been systematically studied.

The student will work on a recently-established colour-banded population of lovely fairy-wrens in Cairns Australia, combining observational data with field, experimental, molecular and comparative approaches to improve our understanding of female ornamentation in the Maluridae and birds more generally.

Applicants will need to have an extremely competitive academic record and obtain an Australian Postgraduate Award or International Research and Fee Remission Scholarships (for details and scholarship application forms see http://services.unimelb.edu.au/-scholarships/research). The main application deadlines for these scholarships are 31 August (International) and 31 October (Domestic).

Interested students with excellent grades that are competitive for a scholarship (average score of >80%) are invited to email their CV, details of two academic referees, academic transcript, and a letter describing their research interests to Raoul Mulder (r.mulderATunimelb.edu.au) and Michelle Hall (hall.mATunimelb.edu.au).

Dr Michelle L Hall Research Fellow Department of Zoology University of Melbourne Melbourne, Vic, 3010 Australia Email: hall.m@unimelb.edu.au Web: http:/-/michellelhall.wordpress.com/ hall.m@unimelb.edu.au

UNewBrunswick ComparativeGenomics

March 2014

GRADUATE STUDENT POSITION IN COMPARATIVE GENOMICS AND BIOINFORMATICS

Biology Department University of New Brunswick, Fredericton

One graduate Ph.D. position is available in the laboratory of Dr. Adrian Reyes-Prieto, in the Biology Department of the University of New Brunswick, Fredericton.

I seek an enthusiastic graduate student with strong interests in evolutionary biology and bioinformatics. The

candidate should have some experience in genomic sciences and sequence (DNA, protein) analysis. The selected student is expected to join our lab as soon as July 2013.

The student will investigate diverse aspects of the evolution of photosynthetic eukaryotes. It is expected that the candidate will generate genomic data, and perform comparative sequence analyses. The research project involves handling of 'next-generation' DNA sequence data, genome assembly, annotation and molecular phylogenetics. This position will provide the opportunity to conduct novel research in topics such as the evolution of photosynthetic organelles, comparative genomics of glaucophytes, and evolution of 'colorless' chlorophytes. NSERC funds for stipends/salaries for up to 4 years are available.

My research program is affiliated with the CIFAR-Integrated Microbiology Program, and the selected graduate student will have the opportunity to interact closely with prestigious research groups across Canada, Europe and the USA (http://www.cifar.ca/integrated-microbial-biodiversity-program-members), via our ongoing collaborations and regular meetings.

Please apply by sending your Curriculum Vitae, contact information for at least three referees, and a cover letter with a statement of your research interests to areyes[at]unb.ca. It is critical that you contact me directly prior to applying to the UNB graduate studies program.

Information on graduate studies and application procedures for the Department of Biology at University of New Brunswick can be found online at www.unb.ca/fredericton/science/biology/-Degree_Info/Graduate.html Adrian Reyes-Prieto, Ph.D. Assistant Professor Biology Department University of New Brunswick http://www.unb.ca/-fredericton/science/biology/Faculty/reyesprieto.html 10 Bailey Drive Fredericton New Brunswick E3B 5A3 Canada

Adrian Reyes Prieto <areyes@unb.ca>

USalford ShrimpSexualDifferentiation

Dear all,

Applications are now open for a 3-year Graduate Teaching Studentship in the School of Environment & Life Sciences, University of Salford, Greater Manchester, UK.

The title of my proposed project is: *Endocrine disruption effects on the sexual differentiation of the brown shrimp Crangon crangon: a field test and characterization of a biomarker*

http://www.salford.ac.uk/environment-life-sciences/research/graduate-teaching-studentships/-2014/endocrine-disruption-effects-on-the-sexual-differentiation-of-the-brown-shrimp-crangon-crangon-a-field-test-and-characterization-of-a-biomarker The goals of this project are: (1) to determine the effects of endocrine disrupting chemicals (EDc) on the sexual differentiation of the brown shrimp *C. crangon* and (2) to characterize an effective ED biomarker in this species.

The successful candidate will:

1) Perform field sampling of *C. crangon* in contaminated and non-contaminated sites;

2) Determine its sex (morphologically and through gonadal histological analyses);

3) Analyse sex ratios and sexual differentiation in the populations under study;

4) Test the use of vitellogenin (Vtg) as an effective ED biomarker (using recently developed protocols which, for example, employ LC-MS-MS, liquid chromatography tandem mass spectrometry).

Successful applicants need to register for a PhD at the University of Salford and from the scheme they will gain experience of teaching in Higher Education while performing their research project. Details on the fellowship can be found here: http://www.salford.ac.uk/-environment-life-sciences/research/graduate-teaching-studentships and here: http://www.salford.ac.uk/-study/postgraduate/fees-and-funding/gts The closing date for application is 31st March 2014.

Please feel free to contact me at: C.Benvenuto@salford.ac.uk

Kind regards,

Chiara

Dr. Chiara Benvenuto Lecturer in Zoology* |* School of Environment & Life Sciences Room 317, Peel Building, University of Salford, Salford M5 4WT, UK *t:* +44 (0)161-295-5141 *| m: *+44 (0)7544-290-311 *C.Benvenuto@salford.ac.uk* | www.salford.ac.uk/environment-life-sciences http://hub.salford.ac.uk/bicome/2013/01/22/chiara-benvenuto/ chiara.benvenuto@gmail.com

USheffield MolecularEvolution

Identifying the determinants of genetic evolvability

Keywords: rates of evolution, gene duplication, evolvability, transcriptomics

A three-years PhD position funded by the Royal Society is available at the University of Sheffield, in the department of Animal and Plant Sciences. The candidate will work under the supervision of Pascal-Antoine Christin (http://www.shef.ac.uk/aps/-staff-and-students/acadstaff/christin), and will investigate the rates of molecular evolution in plants.

During the course of evolution, novel adaptive traits emerge through alterations in the expression patterns and/or catalytic properties of enzymes, which arise through random mutations in the regulatory regions and/or coding regions. The ability of genes to quickly change the properties of the encoded enzymes are likely to affect the evolutionary potential of species adapting to changing conditions. Rates of molecular evolution vary both among species and among genes of a given species. What are the factors explaining this variation? Does faster molecular evolution facilitates the evolution of novel adaptations? These questions will be addressed using comparative analyses applied to transcriptome data generated in this project through high-throughput RNA sequencing. The research will involve a combination of lab work and computer analyses, potentially including the development of new analytical methods.

The student will integrate into a thriving department and will receive training in plant evolution, RNA sequencing, and methods to study molecular evolution. Applications are invited from candidates with interests in molecular evolution and the use of large genetic datasets to address important questions in evolutionary biology.

The review of applications will start on the 3rd of March 2014 and will continue until the position is filled. The project is opened to UK/EU students.

Informal inquiries can be addressed to Pascal-Antoine Christin: p.christin@sheffield.ac.uk

Formal applications should be made using our online application form: https://www.shef.ac.uk/-postgradapplication/ p.christin@sheffield.ac.uk

USouthDakota Bioinformatics

Department of Biology University of South Dakota

Applications are invited for a PhD student position available at the Department of Biology, The University of South Dakota, USA.

We are seeking for an exceptional and highly motivated candidate in the field of bioinformatics with some background in genomics to work on the epigenetics regulation of plant response to stresses project. The PhD student will be responsible for transcriptome, genome, and methylome analysis. These analyses will include de novo assembly of transcriptome, in silico expression analysis, gene network analysis, gene and small RNA annotation, and other related analyses.

The successful candidate will be expected to have specific expertise in writing of programs (e.g. C++, Java, Perl, Python), working knowledge about biological databases, hands-on experience with biological data (especially microarray and next generation sequencing data), computer skills in a UNIX/LINUX environment, and excellent communication and organization skills.

Minimum Degree Required: the student should have a BSc, MSc. or equivalent in Biology/Bioinformatics/Computer Science

Application Process: The position is available starting August 2014. The position will remain open until March 15, 2014. However, to ensure full consideration, application materials should be received no later than February 15, 2014.

International students must take the general test GRE and scores of 40th percentile or higher for the verbal and quantitative tests are recommended, but there is no formal minimum score required for admission. TOEFL scores need to be at least 550 (paper-based), 213 (computer), or 79 (Internet-based). IELTS can be taken instead, with a minimum score of 6.0. Full details about application process are given in the links below.

http://www.usd.edu/graduate-school/international-admissions.cfm http://www.usd.edu/graduate-school/how-to-apply.cfm Applicants should send a resume and a cover letter describing previous experiences and skills to Dr. Abdelali Barakat (Abdelali.barakat@usd.edu). http://www.usd.edu/-arts-andsciences/ biology/abdelali-barakat.cfm

"Suarez, Harold" <Harold.Suarez@coyotes.usd.edu>

USouthamptonUK DomesticationGenomics

Graduate position: USouthamptonUK.DomesticationGenomics

** Sorry, only available to UK/EU students **

I am looking for a highly motivated student to work on the domestication genomics of eggplant/aubergine. The studentship is fully funded with fees paid for and a stipend at current RCUK rates of £13,726 per annum.

Below is the full description and it is also available at http://www.findaphd.com/search/-ProjectDetails.aspx?PJID=50917 Please email me with informal queries (M.chapman@soton.ac.uk) but note that a formal application would need to be made through the Southampton website (details below).

Crop domestication and the repeatability of phenotypic evolution

Domestication represents the outcome of strong (human-mediated) selection, leading Darwin to suggest that the study of domestication would help us understand the process of evolution via natural selection. With recent molecular genetic techniques the study of domestication has shed light on some important evolutionary questions; however one question has received very little attention: how repeatable is evolution?

This studentship will use a high resolution genetic mapping approach using next generation sequencing to identify genomic regions that control specific domestication-related traits in two independently-derived lineages of cultivated aubergine (eggplant). Aubergine domestication conforms to the typical domestication syndrome, i.e. selection for larger, palatable fruits, reduction in plant defences and alterations in plant architecture, however it stands out in being one of the few crops that was domesticated more than once. Being able to overlay domestication QTL with candidate domestication genes will confirm the extent of parallel molecular and phenotypic selection during domestication.

The student will receive full training in all required areas, including bioinformatics and statistical analysis. The student will also be involved in generating and analysing data concerning other aspects of domestication or adaptation genomics.

Funding Notes: The project is funded for 3 years and welcomes applicants from the UK and EU who have, or expect to obtain, at least an upper second class degree in Biological Sciences or allied subjects. Funding will cover fees and a stipend at current research council rates of £13,726 per annum.

Due to funding restrictions this position is only open to UK/EU applicants

References: Applications will be considered in the order that they are received, and the position will be considered filled when a suitable candidate has been identified.

General enquiries should be made to Dr Mark Chapman at m.chapman@soton.ac.uk

Applications for an MPhil/PhD in Biological Sciences should be submitted online at https://studentrecords.soton.ac.uk/BNNRPROD/-bzsksrch.P_Login?pos=4973&majr=4973&term=-201415 Please enter Dr M Chapman in the field for proposed supervisor.

Any queries on the application process should be made to pgafnes@soton.ac.uk

Dr. Mark A. Chapman M.Chapman@soton.ac.uk +44 (0)2380 594396

Centre for Biological Sciences University of Southampton Life Sciences Building 85 Highfield Campus Southampton SO17 1BJ

"Chapman M." <M.Chapman@soton.ac.uk>

UWSydney FruitflyMicrobiome

PHD SCHOLARSHIP FRUIT FLY MICROBIOME

Application deadline 28 February 2014

The Hawkesbury Institute for the Environment (HIE), University of Western Sydney, and the Centre of Excellence for Plant and Animal Health, NSW Department of Primary Industries (NSW DPI), Australia, are seeking a PhD candidate to undertake a project on the microbial symbionts associated with Australia[1]s most significant horticultural pest, Queensland fruit fly and related species.

The project aims to characterise, compare and study the microbiome with a view to understand its role in

fruit fly physiology and biology and to exploit these microorganisms for improving the performance and quality of sterile male flies used for Sterile Insect Technique control programs, while reducing rearing costs. This project is supported by a CRC Plantbiosecurity PhD scholarship.

The PhD candidate is anticipated to commence as soon as possible, but applicants with later start dates are also encouraged to apply. Using molecular techniques, the candidate will identify the microorganisms within Qfly and related species. These populations will be from wild populations across their ecological range and both irradiated and non-irradiated Qfly from a fruit fly production facility. The candidate will differentiate the gut flora between different fly populations and identify and profile probiotic candidate(s) to be incorporated into sterile adult fly diets and conduct laboratory and field cage trials to determine the sexual competitiveness and performance of sterile flies fed a probiotic diet.

The successful applicant will be working in laboratory and field environments, and interact with Australian and International researchers. A strong knowledge of molecular and microbiological techniques, entomology, enthusiastic attitude and self-motivation are required. The student will be supervised by Dr Markus Riegler at HIE, and Dr Olivia Reynolds and Dr Toni Chapman at NSW DPI.

The successful applicant should: * demonstrate excellent academic performance related to the research area * hold qualifications and experience equal to an Australian First Class Bachelor Honours degree * be enthusiastic and highly motivated to undertake further study at an advanced level * preferably have a background that includes the fields of DNA analysis, microbiology, experience or an interest in entomology-related research, and knowledge of statistical techniques. * Knowledge and experience with quantitative data analyses would be an advantage. * International applicants must also demonstrate a high level of proficiency in the English language.

What Does The Scholarship Provide? * Domestic students will receive a tax free stipend of AU$30,000 per annum (for 3.5 years) and a funded place in the doctoral degree. * International students will receive a tax free stipend of AU$30,000 per annum (for 3.5 years). Those with a strong track record may receive a fee waiver. * Funding is available for project costs and conference travel.

Need More Information? * Applicants can discuss their eligibility and interests with Dr Markus Riegler m.riegler@uws.edu.au or + 61 2 4570 1229 * Contact the Office of Research Services to discuss enrolment and scholarships at hdrscholarships@uws.edu.au

How To Apply Submit the application form and CV (including two referees) by 28 February 2014, together with a one-page text that outlines out how your training, experience and vision will fit with the project. The application form can be downloaded from http://www.uws.edu.au/hie/scholarships and click on "Plant Biosecurity CRC: Microbial Symbionts Of Queensland Fruit Fly And Their Use For Improving The Sterile Insect Technique As A Control Strategy."

Dr Markus Riegler Senior Lecturer; Higher Degree Research Director Hawkesbury Institute for the Environment University of Western Sydney Locked Bag 1797, Penrith NSW 2751, Australia email: m.riegler@uws.edu.au web: http://www.uws.edu.au/hie/markusriegler M.Riegler@uws.edu.au

UppsalaU AnimalConservationBiol

PhD in Animal Conservation Biology, Uppsala University

The fungus Batrachochytrium dendrobatidis (Bd) causes the disease Chytridiomycosis and is believed to be one of the major causes for recent global declines of amphibians. Bd was first found in Sweden in 2011. This studentship is aimed at elucidating the relationship between Bd infection and fitness in natural populations of Swedish amphibians. The objective is to determine the extent of Bd infection in Swedish amphibans and whether resistance differs among species and populations.

We seek a bright and highly motivated student who ideally holds an M.Sc. or equivalent in a relevant topic (e.g. population-, evolutionary- or conservation genetics/ecology). Experience of working with conservation genetic techniques such as MHC-genetics, sequencing, and genotyping would be advantageous, but full training will be provided. The ideal candidate will also be able to work both independently and as part of a team. A high standard of spoken and written English is required.

The student will be based at the Department of Ecology and Genetics (Animal Ecology) at the Evolutionary Biology Centre (EBC) at Uppsala University (http://www.ebc.uu.se). The centre is one of the leading centres for evolutionary biology research in the world and offers a stimulating international environment and ex-

cellent research. The working language of the Centre is English. The project is co-supervised by Professors Jacob Höglund and Anssi Laurila.

Uppsala is a city of 200,000 inhabitants with an attractive historical centre and easy access to surrounding nature. It offers a very high standard of living and is well connected to the Swedish capital Stockholm and Stockholm-Arlanda international airport.

This studentship, which provides a net salary of approx. euro 2000 per month and includes health insurance, is funded by the Oscar and Lili Lamm Foundation for a period of four years. The salary is at a fixed rate with pre-set increments. Funding is also available for attending conferences. To apply for the position, please provide: (i) a letter of motivation including a maximum 2-page statement of your research interests, relevant skills and experience; (ii) a CV including publication list; and (iii) names and contact details of three referees willing to write confidential letters of recommendation. All materials should be emailed as a single PDF file to: jacob.hoglund@ebc.uu.se with 'PhD application' in the subject line.

Uppsala University is an equal opportunity employer. We particularly welcome applications from women. Given equal suitability, qualifications and professional achievement, women will be given preference, unless particular circumstances pertaining to a male applicant apply.

The application deadline is February 28 2014 and interviews will take place shortly afterwards. The preferred start date is flexible and will depend on the timeframe of the most qualified applicant. For further information, please see: http://www.ebc.uu.se/-Research/IEG/zooeko/People/Jacob_Hoglund/ http:/-/www.ebc.uu.se/Research/IEG/zooeko/People/-Anssi_Laurila/=0Aor contact Jacob Höglund via email (jacob.hoglund@ebc.uu.se) with any informal inquiries.

For representative publications, please see:

Rogell B, Thörngren H Laurila A Höglund J 2010 Genetic structure in peripheral populations of the natterjack toad, Bufo calamita, as revealed by AFLP. Cons Gen 11: 173-181

Rogell B Eklund M Thörngren H Laurila A Höglund J 2010 The effect of selection, drift and genetic variation on life history trait divergence among insular populations. Mol Ecol 19: 2229-2240

Wang B Ekblom R Pollock D Bongcam-Rudloff E Höglund J 2012 Transcriptome sequencing of black grouse (Tetrao tetrix) for immune gene discovery and microsatellite development. Open Biology 2: 120054

Anssi Laurila Animal Ecology/ Department of Ecology and Genetics Evolutionary Biology Center Uppsala University Norbyvägen 18D 75236 Uppsala Sweden

Tel. +46-18-4716493 Mobile: +46-70-2384356 http:/-/www.ebc.uu.se/Research/IEG/zooeko/People/-Anssi_Laurila/?languageId=1 Coordinator for postgraduate studies at IEG http://www.ebc.uu.se/-education/postgrad/

anssi.laurila@ebc.uu.se

Jobs

ArizonaStateU 2 EvolutionCancer

Open Rank (Job# 10655) Arizona State University

School of Life Sciences, Center for Evolution, Medicine & Public Health

Arizona State University is making a major commitment to developing the field of Evolutionary Medicine. There are plans to recruit up to eight faculty members for a new Center for Evolution, Medicine & Public Health headed by Dr. Randolph Nesse. The Center and the School of Life Sciences invite applications for two open rank faculty positions for Cancer researchers with a preference for one associate/full and one assistant professor. Anticipated start date is August 16, 2014 or later. Candidates for all ranks must have: 1) a P h.D., M.D., or equivalent terminal degree, 2) a strong publication record i n Cancer research that displays expertise in Evolutionary Biology and 3) experience or an explicit interest in developing the field of Evolutionary Medicine. Additional requirements for associate/full rank include: 1) a record of funding for a research program that applies Evolutionary principles to better understand and treat Cancer, 2) evidence of the ability to organize teams of scientists to tackle complex problems, and3) demonstrated evidence of strong teaching and mentoring. A desirable qualification for assistant professor rank is postdoctoral experience. A desirable qualification at all ranks is familiarity with computation and modeling.

Successful candidates will be expected to transfer, or develop (if assistant professor rank), an extramurally funded research program; teach at the undergraduate and graduate levels; mentor undergraduate and graduate students a nd postdoctoral fellows; develop collaborative research and education projects for the Center; engage in University service; and conduct research publishable in top tier journals. A competitive start-up package will be provided and the amount of teaching required will be compatible with high research productivity.

The Center for Evolution, Medicine, and Public Health joins a vibrant, interdisciplinary community at ASU. Examples of existing centers and institutes are: Bioenergy and Photosynthesis (bioenergy.asu.edu), Biodesign (biodesign. asu.edu) and Astrobiology (astrobiology.asu.edu).

To apply, send a cover letter, curriculum vitae, three representative publications, contact information for three references, and separate statements of future research plans and teaching philosophy interests in a single pdf file to solsfacultysearch3@asu.edu. The initial closing date for receipt of applications is March 19, 2014; applications will be reviewed weekly thereafter until the search is closed. A background check is required for employment.

Arizona State University is an equal opportunity/affirmative action employer committed to < https://www.asu.edu/titleIX/ > excellence through diversity. < https://www.asu.edu/titleIX/ > Women and minorities are encouraged to apply. For additional information on the School of Life Sciences, please visit sols.asu.edu.

rmnesse@gmail.com

BrandeisU ConservationBiol

Lecturer in Ecology Brandeis University

The Biology Department and the Environmental Studies Program of Brandeis University seek a Lecturer in Ecology and related topics, starting Fall 2014. This will be a two-year, part-time (0.6 FTE) appointment, with benefits and with the potential for renewal. The successful candidate will hold a Ph.D. degree in a branch of ecology. Teaching duties comprise three courses per year, including some combination of Ecology, Conservation Biology, Animal Behavior, Field Biology, or similar topics.

These courses are primarily intended for Biology and Environmental Studies majors and minors. Brandeis University places emphasis on interdisciplinary programs and working closely with individual students. The Lecturer in Ecology will become an active participant in the advising of students, supervision of senior theses, and development of curriculum in the Environmental Studies Program. First consideration will be given to applications received by March 21, 2014.

Applications, which should be submitted through AcademicJobsOnline at https://academicjobsonline.org/ajo/jobs/3883, should include a letter outlining interests and evidence of effective undergraduate teaching, along with curriculum vitae, and the names of three referees. Evidence of teaching should include a list of courses and the institutions at which they were taught, and a syllabus from one of those courses.

Brandeis University is an equal opportunity employer, committed to building a culturally diverse intellectual community, and strongly encourages applications from women and minority candidates.

Dan Perlman Associate Provost of Innovation in Education Professor of Biology Brandeis University (781) 736 2687

perlman@brandeis.edu

CAS Beijing PopulationGenomics

Our research group is now looking for an Assistant Professor in the fields of population and evolutionary genomics.

The Institute of Zoology of Chinese Academy of Sciences (CAS) is located at Beijing and is one of the leading research institutes in CAS. Please see http://www.ioz.ac.cn for more information.

Our research interests focus on evolutionary (e.g. the climate driven adaptation) and functional genomics in wild and domestic sheep using the high throughput genomic data (high-density ovine Beadchip SNP, whole-genome re-sequencing and mRNA and microRNA data etc.)

Applications are sought from individuals with a strong background and research record in population, evolutionary and functional genomics. Knowledge of Chinese will be viewed as advantageous.

This position can be filled from July or August of 2014. The emolument and relevant benefit will be implemented according to the scales of CAS.

To apply for the post, please send a c.v. (including names of 3 referees) and a cover letter to Prof. Menghua LI (menghua.li@ioz.ac.cn), Institute of Zoology, Chinese Academy of Sciences, Beijing.

ÀîÃÏ≫£Meng-Hua LI£© <menghua.li@ioz.ac.cn>

DukeU FieldTech PlantAdaptation

The Mitchell-Olds lab at Duke University seeks a highly motivated, detail-oriented assistant for field research in the northern Rocky Mountains, summer 2014. We are studying Boechera, a perennial herb that offers genetic tractability and ecological context. Current field experiments focus on questions related to local adaptation, plant defense against herbivory, and breeding systems.

Our research sites are located in east-central Idaho. Base camp is a set of trailers located near the beautiful town of Salmon. Amenities include heat, hot water, a landline, and wireless internet access. Travel distances between sites are long, which necessitates many hours in the car. Our team usually returns to the trailers to sleep but applicants should be familiar with (and enjoy!) camping for the times when this is not feasible. Weather conditions in the Rockies can be severe, and assistants should expect to work in snow and rain as well as 90 degree temperatures. Regular trips are made to Missoula, Montana for groceries and other supplies.

Successful applicants are expected to assist in data collection and data entry, plant care, transplanting, seed collection, and driving research vehicles. Applicants must be able to stoop/kneel for extended periods of time; hike up to 1 mile while carrying heavy loads; hike up and down steep hills; and dig or dibble holes in hard ground. The work can be physically demanding and tiring, and the research team usually collects data 5-6

days per week. A good sense of humor and a positive attitude are necessities!

Qualifications: 1) some undergraduate education in biology, ecology, or related field, or equivalent experience; 2) experience camping and working outdoors and/or previous field research experience; 3) ability to perform repetitive tasks with a cheerful attitude and with attention to detail; 4) willingness to live and work in close proximity with other researchers in a trailer; 5) a current driver's license. Previous experience working with plants is preferable but not required. Transportation, room with internet access, and salary will be provided. Applicants must be available throughout the field season from approximately June 1st through mid-August, but exact start and end dates are flexible.

Interested applicants should submit: 1) a short cover letter describing their qualifications as well as future academic and professional goals; 2) a résumé outlining previous work experience, relevant courses (completed or in progress), extracurricular activities; and 3) contact information of two character references.

Email to:

Tom Mitchell-Olds, tmo1@duke.edu Department of Biology, Duke University

mrw28@duke.edu

DurhamU Bioinformatics

Bioinformatics Experimental Officer position available

School of Biological and Biomedical Sciences, Durham University, UK

Job Description: We seek an experienced bioinformatician to join the staff of DBS Genomics and facilitate the running and growth of our next generation sequencing facility (full time permanent position starting at grade 7). You will be responsible for the computer-based processing and preliminary analysis of genomic data produced in the facility, which will be initially equipped with an Illumina Hi-Seq. Bioinformatic processing of NGS output to be provided by the experimental officer will routinely include the removal of adapter sequences, the preparation of fastQ files, preliminary assembly, alignment and similar analyses. You may also be required to carry out detailed custom analysis for selected projects, and will be the point of contact for interaction with the university's high performance computing facility, and for overseeing the provision of software and data archiving.

Requirements: The post holder will have expertise in the bioinformatic analysis of next generation sequencing data for both genomic and transcriptomic data. They will be familiar with available freeware associated with genomic analyses and must be proficient at scripting in at least two of the following: R, Perl, Python, Java or C++. They will have a PhD in a relevant field and at least some post-doctoral experience undertaking relevant work. They will ideally have experience working with both plant and animal genomes and transcriptomes, or understand what will be needed to become proficient with all of these data categories.

For further information and to apply for the position see: https://ig5.i-grasp.com/fe/tpl_durham01.asps=-4A515F4E5A565B1A&jobid=85424,7271342323&key=85465143&c=653415472334&pagestamp=-sessnznzpjeigxeioe Please contact Rus Hoelzel (a.r.hoelzel@dur.ac.uk) if you have any questions, and have two letters of reference sent to Prof. Hoelzel by email.

The application deadline is March 16 2014

"HOELZEL A.R." <a.r.hoelzel@durham.ac.uk>

Florida MNH MammalCurator

JOB OPENING: Collections Manager in Mammalogy

The Florida Museum of Natural History is a world-class natural history museum of over 40 million specimens and artifacts located on the University of Florida campus in Gainesville, Florida.

We are seeking a collection manager in the division of Mammalogy. Knowledge of the care and management of a natural history collection of mammals is expected, including permitting, cataloging and accessions specimens, processing loans, maintaining an electronic database, integrated pest management, and use of MS office. The FLMNH is a highly collaborative environment, so the ability to work well with others is critical for this position. As with all collection manager positions, attention to detail is of the utmost importance. Because the FLMNH is highly visible to the public, this position requires confidence in front of public, university, and scientific audiences including the media. Communication with the public, university, government, and scientific audiences is expected. Travel, including foreign travel is also expected of this posi-

tion. FLMNH collection managers are encouraged to maintain their own independent research activity.

Minimum Qualifications: Bachelor's degree in (Biology, Zoology, or relevant field) with at least five years' experience in collection management. Job requires demonstrable proficiency with the taxonomy, nomenclature, identification, preparation, and preservation of mammal specimens, and their tissues and DNA.

Preferred Qualifications: Ph.D., experience in supervisory roles, mammal fieldwork, grant writing, and/or bioinformatics.

Duties include: Assists curator(s) in the management of zoological collections to ensure all care and maintenance procedures necessary for specimen conservation; loans; permitting; collection use for research, teaching, exhibits, and public programs; supervision of student assistants and volunteers; databasing, web access, and reporting; museum & local community service; help establish & nurture mutually beneficial relationships with individuals, schools, colleges, universities, and relevant organizations. The collection manager will work with Mammal Curator to develop policy and procedures; grow the collection; write grant proposals; participate in informal (or formal) teaching; aid in shared administrative duties, and develop and implement a long term collections strategy in reference to American Association of Museums accreditation requirements, standards, and best practices.

100% time (40 hrs/week). Salary commensurate with experience, plus benefits.

To Apply: Applicants must apply online and can view the complete job announcement at jobs.ufl.edu. Please reference job requisition number 0904817. Applicants will need to upload curriculum vitae, letter of interest, and arrange for three letters of reference to be sent directly to Mammalogy Curator, David L. Reed (dlreed@ufl.edu). Applications are due 2/14/14.

If an accommodation due to a disability is needed to apply for this position, please call (352) 392-2HRS or the Florida Relay System at (800) 955-8771 (TDD). The University of Florida is an Equal Opportunity Employer.

David L. Reed, Ph.D. Associate Curator of Mammals and Chair, Department of Natural History Florida Museum of Natural History 1659 Museum Road (Dickinson Hall) University of Florida Gainesville, FL 32611 (352) 273-1971 (voice) (352) 846-0287 (fax) e-mail: dlreed@ufl.edu http://www.flmnh.ufl.edu/mammals/ dreed@flmnh.ufl.edu

FordhamU REUSummerRes

Job: REU summer research positions for Project Baseline

The lab of Steve Franks at Fordham University is offering Research Experiences for Undergraduates (REU positions) through Project Baseline in summer 2014. Multiple positions are available.

Project Baseline is an NSF-funded, nationwide effort to create a seed bank for studies of plant evolutionary responses to climate change. REU students will assist with seed and data collection efforts in the field, and will also conduct independent research related to the goals of the project and to plant evolutionary ecology. The positions are based at Fordham University in New York City, but field work and collections will take place throughout the eastern United States.

For more on the Franks lab, see http://-sfrankslab.wordpress.com . For more on Project Baseline, see http://www.baselineseedbank.org/ . Applicants must be currently enrolled and in good standing at an accredited college or university, have some undergraduate education in biology, ecology or a related field, or equivalent experience, and be willing to travel for extended periods of time, carry equipment, and work in the field under potentially adverse conditions.

Desirable: 1) Research or field experience, 2) Interest in plant ecology, evolution, or global change, 3) Background in or willingness to learn plant identification, 4) Evidence of dedication, motivation, ability to work in a team, communication skills, and attention to detail, 5) a current valid driver's license.

Successful applicants will receive a stipend, and costs of transportation and housing/camping during field work will be provided. The positions will run from around late-May through mid-August, and exact start and end dates are flexible.

Interested applicants should submit, as a single pdf: 1) a brief cover letter describing their qualifications and research interests; 2) a résumé or CV and 3) contact information of two references.

Applications should be submitted by March 14, 2014 by email to the Project Baseline postdoc for the eastern region, Dr. Jennifer Weber (jweber11@fordham.edu). Inquiries may be sent to this address or to Dr. Steve

Franks (franks@fordham.edu).

Fordham University is an equal opportunity/affirmative action institution. Qualified applicants of all backgrounds and career goals are encouraged to apply.

Jennifer Weber http://www.jenniferweber.org/- Postdoctoral Researcher http://-www.baselineseedbank.org/ Fordham University Bronx, NY

jenniferjuneweber@gmail.com

FrenchGuiana TreePopGenetics

Population genetics and genomics of wild tropical tree populations

A non-permanent position as Team leader in population genetics and genomics is open at INRA within the EcoFoG ("Ecology of Forests of the Guianas") Research Unit, based in Kourou, French Guiana.

The Research Unit (http://www.ecofog.gf/?lang=en) and the Ecological Genetics laboratory (http://-www.ecofog.gf/spip.php?rubrique91) in particular have a long-standing experience in the study of ecological and genetic processes involved in the establishment and maintenance of genetic, species and ecosystem diversity in tropical forest ecosystems. They are tightly connected with the international research community and make use of up-to-date experimental and analytical methods to tackle research questions such as unveiling the mechanisms underlying local adaptation and measuring the role of genomic processes in species radiation. The Ecological Genetics laboratory is currently leader / participant of several collaborative research programs revolving around the above topics. The team leader position is left vacant by the current Team leader's (I. Scotti) departure.

We are seeking a young and highly motivated scientist (ideally with a post-doc experience between three and six years) who is an expert in two or more of the following topics: population genetics, population genomics, quantitative genetics, modelling of population genetic processes, ecological genetics, speciation genomics, forest tree genetics. The scientist will have access to all data being gathered by research team; he/she will initially work on the genomics of local adaptation and speciation in a set of species and species complexes that have been the target of the lab's research during the past ten years. He/she will also initially work in tight collaboration with the former Team leader. While the hired Team leader will be in charge of all scientific aspects, the Ecological Genetics laboratory itself (including staff and facilities) will be supervised by the Team's permanent Research associate (Henri Caron). The candidate will preferentially have experience with non-model species that provide limited options for manipulative experimental approaches, and must have an inclination for field work, lab work, data analysis and the coordination of medium-sized research teams. Moreover, he or she must be willing to understand the inner working of, and to take care of, the administration of science and of collaborative research programs. Propensities for life in tropical conditions in a remote country, as well as a satisfactory level of spoken French, are mandatory.

Salary conditions correspond to those of an INRA CR2 scientist increased by 40% (approximate net salary: 2600 euro/month), plus the full benefits of the French welfare system. The position is offered for five years, divided into two grants of two and three years, starting 1st February 2014 at the earliest. The position will start with a three-month trial period.

The call for applications will be closed on January 31st, or earlier if a suitable candidate is found. If no suitable candidate is found by that date, the call will be reopened.

Please contact Ivan Scotti (ivan.scotti@ecofog.gf, http://www.ecofog.gf/spip.php?article58) for further information on the position and to submit your application. Applicants will submit a short introductory letter, a detailed CV, as well as two reference letters by current and former supervisors. The candidates with a suitable CV will be interviewed (expect a one-hour interview by videocall).

Ivan Scotti DR2 INRA - UMR 0745 ECOFOG "Ecologie des Forêts de Guyane" / "Ecology of Guiana Forests" Team Leader ≪ Population Ecology ≫ Campus agronomique, Avenue de France BP 709 - 97387 KOUROU Cedex FRANCE Phone +594 (0)59432-9274, -9285, -9278 Fax +594 (0)59432-4302 e-mail: ivan.scotti@ecofog.gf ivan.scotti@kourou.cirad.fr, i.scotti.inra.kourou@gmail.com

Personal webpage: http://www.ecofog.gf/-spip.php?article250 VISITORS TO FRENCH GUIANA MUST HOLD A VALID YELLOW FEVER VACCINE CERTIFICATE

Ivan Scotti <Ivan.Scotti@ecofog.gf>

GreekIslands FieldAssist LizardEvolution

I am a third year PhD student looking for a field assistant to help on a field trip to the Greek islands this summer (early April - mid July).

The trip will involve data collection for my PhD project, which investigates the evolution of coloration in wall-lizards (Podarcis erhardii), and how they use their coloration for camouflage against predators and to communicate with their mates.

Day to day field tasks will include UV photography of lizards (in situ and captured), capturing/marking lizards, conducting field experiments (e.g. mate choice experiments to test how blocking UV signals affects female mate preferences), and morphological measurements of trapped lizards.

Travel (return flights to Greece) and accommodation for the whole trip will be paid for, however subsistence and any other expenses would have to be covered by the field assistant.

Email Kate Marshall directly (km547@cam.ac.uk) if you are interested and for further information.

Kate Marshall <km547@cam.ac.uk>

IPasteur Bioinformatics

STATISTICAL GENETICS AND BIOINFORMATICS Open position at Institut Pasteur (Paris, France)

In the framework of the LabEx consortium ≪ Milieu Intérieur ≫ (MI), *a position in statistical genetics and bioinformatics is open from March 2014* at the Institut Pasteur in Paris. The goal of the MI consortium is to define the naturally-occurring variation of the human immune responses to an unprecedented scale. Thousands of aspects of the variation of the immune response (i.e., gene expression, protein variation, cellular phenotypes, etc.) to pathogens and immune stimuli are being defined in a large cohort of 1000 healthy individuals. The integration of these datasets with the degree of genome-wide variation of the human genome, variation in microbiota, and a number of demographic variables will allow us to evaluate the respective impact of genetic, environmental and sociocultural factors on the inter-individual variability of the immune response, which in turn can account for differences in susceptibility to infectious disease, and response to therapeutic treatment and vaccines.

The candidate will be responsible for data analyses in the context of this project and will work in a multidisciplinary team that integrates human genetics, population genetics, immunology, evolutionary biology and systems biology. This ambitious project needs cutting-edge and innovative methods for the statistical analyses of the data. We look for a candidate with strong experience in large-scale data analyses (data mining), and advanced tools in statistical inference (e.g., linear and generalised linear models, Bayesian statistics, MCMC algorithms, etc.). We expect the candidate to have a strong interest in the development of new statistical approaches. Knowledge of genomics and biology is not necessary but will be appreciated.

*Requirements:*The applicant should have a PhD, or equivalent degree, in Biostatistics, Bioinformatics or Statistical Genetics, or several years of experience in these fields. Team spirit and dynamism are essential. Salary will depend on previous experience.

Contact: To apply, send your CV and a letter describing your research interests and skills (in a single pdf file) to Dr Lluis Quintana-Murci, Unit of Human Evolutionary Genetics, Institut Pasteur, by e-mail: quintana@pasteur.fr

Lluis Quintana-Murci <lluis.quintana-murci@pasteur.fr>

ImperialCollege London 2 ResAssoc EvolutionGenomics

Imperial College London

Department of Life Sciences

Faculty of Natural Sciences

2 Research Associates in Evolution and Genomics

Salary: £32,750 - £41,540 per annum

This is an exciting opportunity for two Research Associates with an interest in Speciation Biology and Evolution. The successful candidates will carry out cut-

ting edge research in evolution and genomics, largely analysing existing data and writing up publications. The main research objective is to analyse genetic data and infer large-scale plant evolutionary radiations, genomics of colour patterns in animals, population genetics of island invasive animals, and population coalescence of palms on oceanic islands. The post holders will employ advanced modelling and statistical tools in molecular population genetics and/or genomics. This work will complement genomic, laboratory and experimental work undertaken by other Research Associates in Professor Vincent Savolainen's group.

The positions are funded until 31 December 2014 by the European Research Council and will be based at the Silwood Park Campus. The successful candidates will work closely with Professor Vincent Savolainen (holder of the ERC Advanced Grant) and his research group.

You must have a PhD or equivalent qualification in evolution, ecology, genetics or a closely related discipline. The successful candidates will have expertise in population genomics and/or phylogenetics, statistics and modelling with a strong interest in evolutionary biology. Expertise in Geographic Information Systems (GIS), experience of management and analysis of complex genetic data and working in a multi-disciplinary environment are essential.

You must have experience of working in a team, be able to develop and apply new concepts and have a creative approach to problem-solving. You must also have excellent verbal and written communication skills and be able to write clearly and succinctly for publication.

Further details of the research group can be obtained from the research group website: http://-www3.imperial.ac.uk/people/v.savolainen Our preferred method of application is online via our website http://www.imperial.ac.uk/employment (please select "Job Search" then enter the job title or vacancy reference number including spaces - NS 2014 026 JT into "Keywords"). Please complete and upload an application form as directed.

Alternatively, if you are unable to apply online, please contact Mrs Christine Short on 020 7594 2276 or email c.j.short@imperial.ac.uk to request an application form.

Closing date: 11 March 2014

Committed to equality and valuing diversity. We are also an Athena SWAN Silver Award winner, a Stonewall Diversity Champion and a Two Ticks Employer.

"Thomas, Jenny" <j.thomas@imperial.ac.uk>

InstZoology Beijing 2 EvolutionaryBiol

The Key Laboratory of Zoological Systematics and Evolution, Institute of Zoology (IOZ), ChineseAcademy of Sciences (CAS) located in Beijing, has 2-3 academic positions available at the level of Full Professor. Applications are invited from fields including but not limited to systematic zoology, evolutionary developmental biology, evolutionary genetics, biogeography and bioinformatics. Applicants should have a Ph.D. degree and outstanding research accomplishments.

Successful candidates are expected to develop independent research programs that can complement or integrate with existing research activities at Key Laboratory of Zoological Systematic and Evolution in the IOZ. Salary and benefits are competitive and commensurate with experience and qualifications. Only applications from oversea Chinese scholars are considered.

Applicants should submit their CV, biography, future plan, and names/addresses of three references, to Yingjing Liu, liuyj@ioz.ac.cn, Fax: +86-10-64807088). These positions will be "OPEN UNTILL FILLED".

leifm@ioz.ac.cn

MPM Milwaukee BotanyCurator

Collection Manager - Botany

The Milwaukee Public Museum has a full-time career opportunity for a Collection Manager in its Life Sciences Department. We are seeking to fill this entry level position with an assertive and dependable individual with previous experience in Botany collection care.

Education: The Collection Manager must hold a graduate (Masters) degree in their respective discipline or, in exceptional circumstances, may demonstrate equivalent academic and professional achievements, competencies and experience in museum techniques or collections-based research.

Responsibilities: Care of Botanical Collections: As-

sist with direct care and organization of collections, and their management based on both the best practices of individual disciplines and fundamental principles of conservation, security, housing and environmental control. Data & Records Management: Inventory/digitization and continuing documentation of collections including databases, correspondence, archives, publications and loan records. Processing & Preparation: Conduct or coordinate the appropriate processing of new collections or existing collections including physical preparation, labeling, cataloguing, accessioning and loans. Access & Interpretation: Provide collection access to the research community; content and advice on MPM exhibit projects; assist in the development of exhibits and interpretive programs. Professional Services: Provide scholarly guidance to students, may participate in graduate student committees, and serve as reviewers of manuscripts and grant proposals as appropriate.

MPM is a natural history museum with Herbarium Collections totaling about 250,000 specimens including ca. 70 type specimens with over 50% of the material from Wisconsin and another 30% from the rest of North America. The collections are divided into vascular (107,000 records) and nonvascular (17,000 records) plants with associated data digitized for 200,000 specimens. This position offers a competitive wage and benefit package. If interested, please visit www.mpm.edu and go to the careers tab to review open positions and to apply on-line. In addition, please submit a current resume and/or Curriculum Vitae. Review of applications will begin April 1.

Questions can be directed to Susan Borkin: borkin@mpm.edu

"Eubanks, Kimberly" <kim@mpm.edu>

MaxPlanck Germany FieldTrainees CricketBehaviour

*FIELD**TRAINEES*

needed in fulltime for Field Cricket Project at the *Max Planck Institute for** **Ornithology*.

Website:http://www.orn.mpg.de/159079/-Research_Group_Dingemanse Location: Munich (LMU) and Seewiesen, Bayern, Germany.

Job description:

The field trainees will help collect behavioural and life-history data on Field Crickets (Gryllus bimaculatus) and maintenance of the crickets frombeginning of April toAugust 1^st , 2014.The research focuses primarily on identifying how the social environment (ie. Other individuals) generate and maintain individual differences in behaviour and behavioural plasticity.Trainees will work closely with an international team consisting of one post-doc, one PhD-student and various Master students. The research project is intense and will have typically only 1-2 days off per week. Duties include behavioural observations, cricket handling (marking, measuring), data entry and data management.

*_Qualifications_**_/Experience_**_:_*

Candidates shouldstudy Biology or a related field.Preferred candidates have experience with handling small insects and working as part of a research group. Ideal candidates are highly motivated, well organized and able to work independently, while at the same time able to function well in a big group.

Non-EU candidates are not eligible for this position. A small financial compensation and housing in shared accommodation will be provided.Acceptedtrainees should be vaccinated against Tick Borne Encephalitis (TBE or FSME) before arriving in Seewiesen. Applicants should also be aware that Lyme disease (carried by ticks)is prevalent in the area and should inform themselves about this disease beforehand.

In an effort to employ more people with disabilities, the Max-Planck-Society specifically encourages people with disabilities to apply for the position.

Applications: Review of the applications will begin February 15th and continue until the position is filled*.*To apply, please send (1) a statement of relevant experience, (2) a short resume or CV,and(3) contact information for two references to Alexia Mouchet (eMail:amouchet@orn.mpg.de).

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Alexia MOUCHET

Max Planck Institute for Ornithology Evolutionary Ecology of Variation Eberhard-Gwinner-Straße 7/8 82319 Seewiesen GERMANY

Email:amouchet@orn.mpg.de

amouchet <amouchet@orn.mpg.de>

NHM LosAngeles Malacologist

The Natural History Museum of Los Angeles County (NHM) Foundation has an immediate opening, the Twila Bratcher Endowed Chair in Malacological Research, for an accomplished malacologist to conduct collection-based research on the Museum's extensive collections of mollusks. The Museum has world-class malacological holdings, with a special emphasis on shelled mollusks of the eastern Pacific, and a rich history of collections-based research on marine invertebrates. The Museum also holds extensive collections of fossil mollusks.

We seek an early career scientist who will implement an internationally recognized, modern and integrative research program in the evolutionary biology of mollusks, including taxonomy, systematics, biogeography, and biodiversity science. The successful candidate will have a PhD, a track record of research productivity, evidence of the ability to generate external funding, a strong interest in science communication and engaging the public in malacological research, and the ability to effectively communicate and engage with a wide variety of audiences, including the public and the NHM's various stakeholders. The successful candidate also will be expected to help develop the collections and contribute to the Museum's public programs (education and exhibits).

This is a full time, untenured position of limited duration. The current expectation is that funding for the position will be available for two years, depending on annual performance evaluations and available resources.

The NHM, the largest natural history museum in the western United States, has recently finished a dramatic transformation including new ground-breaking exhibits and a 3 1/2 acre wildlife garden. The NHM's mission is to inspire wonder, discovery, and responsibility for our natural and cultural worlds. The NHM has recently developed a strategic intent - "Be the best at communicating how our planet and life on it changes over time and why this matters" - that will guide the museum's priorities over the next decade.

Applications, including a cover letter, CV, statement of research, statement of science communication interests, and the names of potential referees, should be sent by March 15, 2014, to: Dr. Joel W. Martin, Chief of the Division of Invertebrate Studies, Natural History Museum of Los Angeles County, 900 Exposition Boulevard, Los Angeles, California 90007. The Natural History Museum is an equal opportunity employer; women and minorities are encouraged to apply.

Regina Wetzer, Ph.D. Associate Curator and Director Marine Biodiversity Center Natural History Museum of Los Angeles County 900 Exposition Blvd., Los Angeles, CA 90007 Tel. 213.763.3217

rwetzer@gmail.com

NewYorkU LabTech NematodeGeneticVariation

Laboratory Technician Position

The Rockman Lab at New York University seeks a full-time research technician to participate in ongoing projects addressing the genetic basis of phenotypic variation. The position is available immediately. The responsibilities of the technician include isolation and purification of RNA and DNA from several species of nematode and annelid, construction of Illumina sequencing libraries (for RNA-seq, DNA-seq, & RAD-seq), and RNA labeling and hybridization for microarray experiments.

The ideal candidate will have experience working with RNA, familiarity with standard equipment used for library construction (e.g., the bioanalyzer), demonstrated ability to troubleshoot molecular methods, and an interest in evolutionary genetics. The position represents an opportunity to engage with PhD students and postdoctoral researchers working on a range of questions in empirical evolutionary genetics. For information about the lab, see the website at https://-files.nyu.edu/mr176/public/ .

New York University is located in Greenwich Village, convenient by train or subway from the entire New York metro area. NYU is an equal opportunity employer. Salary is commensurate with experience. Applicants should submit a cover letter and CV to Matt Rockman at mrockman@nyu.edu .

Matthew Rockman Department of Biology and Center for Genomics & Systems Biology New York University 12 Waverly Place, 8th Floor New York, NY 10003 (212) 998 8490

mrockman@nyu.edu

OkinawaInstScienceTech ResTech NGS

The Ecology and Evolution Unit (internal: http://-ecoevo.unit.oist.jp/ external: https://groups.oist.jp/-evolution) at the Okinawa Institute of Science and Technology (http://www.oist.jp/) is seeking applicants with skills in molecular biology for a Research Technician position. In our work we employ next-generation sequencing to study the interaction between genomes and the environment, working with a wide range of study species, from yeast, to snakes, to social insects.

RESEARCH TECHNICIAN

Duties: The chosen candidate will principally carry out a high-throughput genotyping pipeline, starting by extracting DNA from field-collected specimens, and then prepare them for sequencing. Much of the work will be automated using liquid handling robots, and will require the processing of tens of thousands of samples. In addition to these tasks, the research technician will assist with laboratory management/ordering supplies, writing up relevant sections of methods and results for manuscripts, as well as participating with ongoing research and development activities. Over time, there may be possibilities to participate in fieldwork, to learn bioinformatic skills, and to engage in outreach activities.

Qualifications: A BS/MS in Biology or a related field, scientific research experience, and a proficiency in basic molecular biology techniques are essential. In addition, a familiarity with the handling of scientific data, and basic computer skills are also required. Experience working with next-generation sequencing, and with liquid-handling automation is desirable, but not required. The ideal candidate will have a strong ability to focus, good organizational skills, an ability to both carefully follow directions, and to independently solve common problems. The candidate should also be proficient at multitasking, prioritizing responsibilities, time management, and have an ability to interact with all levels of staff in a multicultural environment.

Job Data: OIST is a newly established international graduate university located in the resort area of Onnason, Okinawa, Japan, and offers a high quality of life and good working conditions in an international environment. Logistical and financial assistance with relocation will be provided, along with a competitive salary and benefits package. OIST is an English-language working environment and knowledge of English is required, knowledge of Japanese is helpful but not necessary. The OIST campus is notable for its scenic layout, including a view of the ocean from the lab itself.

To apply, please send a cover letter, CV, and list of three references with contact information to <alexander.mikheyev@oist.jp>. Informal inquiries are also welcome at the same address. Application review will begin immediately and will remain open until the position is filled. We are aiming to conduct video chat interviews in March, on-site interviews in April, and a start date in May/June 2014.

mikheyev@gmail.com

PurdueU EvolutionaryBiol

Continuing Lecturer Department of Biological Sciences Purdue University

Applicant must have a Ph.D. in the biological sciences or related discipline and preferably two years of teaching experience at the university level. The successful candidate will teach lecture courses in a sophomore-level ecology & evolution class and introductory genetics for majors. Duration of this position is two years with potential of continuation based on funding and suitable performance.

Applications must be submitted electronically to https://hiring.science.purdue.edu as single PDF files that include a detailed curriculum vitae, names and addresses of three references, a 2-3 page summary of statement of teaching interests and/or philosophy. Inquiries should be directed to Continuing Lecturer Search Committee, Department of Biological Sciences, Purdue University, 915 West State Street, West Lafayette, IN 47907-2054 or emailed to search@bio.purdue.edu. Review of applications will begin February 17, 2014 and continue until position is filled. A background check will be required for employment in this position

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

dbos@purdue.edu

PurdueU FieldLabTech BoxTurtles

Title: Temporary field and laboratory technician - box turtles

Dates: 1 April 2014 - 31 October 2014

Agency: Purdue University

Location: West Lafayette, IN

Job Description: The Rod Williams and Jason Hoverman laboratory groups in the Department of Forestry and Natural Resources, Purdue University seek a temporary technician to assist with a project that involves the monitoring of a disease outbreak in a population of box turtles. The successful candidate will be well organized, detail-oriented, able to work in both inclement weather and in laboratory settings, able to organize large amounts of data and samples, and communicate effectively. The selected candidate will lead small teams for field work and work either alone or with various team members in a genetics laboratory setting. Attention to detail is a must, especially with respect to the prevention of cross-contamination of samples. Opportunities for further experiments will be available and duties may change as circumstances warrant.

Required qualifications: Bachelor's degree in biology or related field, high organization and communication skills, current driver's license and clean driving record.

Preferred qualifications: Experience with herp field work, herp diseases, and genetic laboratory work.

Application: Review of applications will begin 28 February 2014 and continue until the position is filled. Submit a letter of interest describing why you are the best candidate for the job (don't just rehash your CV), a CV, and contact information for three professional references as a single .pdf to skimble@purdue.edu.

Purdue University prohibits discrimination against any member of the University community on the basis of race, religion, color, sex, age, national origin or ancestry, genetic information, marital status, parental status, sexual orientation, gender identity and expression, disability, or status as a veteran. The University will conduct its programs, services and activities consistent with applicable federal, state and local laws, regulations and orders and in conformance with the procedures and limitations as set forth in Purdue's Equal Opportunity, Equal Access and Affirmative Action policy which provides specific contractual rights and remedies. Additionally, the University promotes the full realization of equal employment opportunity for women, minorities, persons with disabilities and veterans through its affirmative action program.

Salary: $11/hr

Last date to apply: 28 February 2014.

Contact: Steve Kimble sjkimble@gmail.com

Links: http://web.ics.purdue.edu/ ~ rodw/ http://web.ics.purdue.edu/ ~ jhoverm/Hoverman/Welcome.html Steve Kimble Postdoctoral Research Assistant, Department of Forestry and Natural Resources Purdue University skimble@purdue.edu sjkimble@gmail.com http://web.ics.purdue.edu/~rodw/sKimble.php

sjkimble@gmail.com

RockyMountains DukeU PlantAdaptation

The Mitchell-Olds lab at Duke University seeks a highly motivated, detail-oriented assistant for field research in the northern Rocky Mountains, summer 2014. We are studying Boechera, a perennial herb that offers genetic tractability and ecological context. Current field experiments focus on questions related to local adaptation, plant defense against herbivory, and breeding systems.

Our research sites are located in east-central Idaho. Base camp is a set of trailers located near the beautiful town of Salmon. Trailers include heat, hot water, a landline, and wireless internet access. Travel distances between sites are long, which necessitates many hours in the car. Our team usually returns to the trailers to sleep but applicants should be familiar with (and enjoy!) camping for the times when this is not feasible. Weather conditions in the Rockies can be severe, and assistants should expect to work in snow and rain as well as 90 degree temperatures. Regular trips are made to Missoula, Montana for groceries and other supplies.

Successful applicants are expected to assist in data collection and data entry, plant care, transplanting, seed collection, and driving research vehicles. Applicants must be able to stoop/kneel for extended periods of time; hike up to 1 mile while carrying heavy loads; hike up and down steep hills; and dig or dibble holes in hard ground. The work can be physically demanding and tiring, and the research team usually collects data 5-6 days per week. A good sense of humor and a positive attitude are necessities!

Qualifications: 1) some undergraduate education in biology, ecology, or related field, or equivalent experience; 2) experience camping and working outdoors and/or previous field research experience; 3) ability to perform repetitive tasks with a cheerful attitude and with attention to detail; 4) willingness to live and work in close proximity with other researchers in a trailer; 5) a current driver's license. Previous experience working with plants is preferable but not required. Transportation,

room with internet access, and salary will be provided. Applicants must be available throughout the field season from approximately June 1st through mid-August, but exact start and end dates are flexible.

The deadline for applications is February 28th, 2014. Interested applicants should submit: 1) a short cover letter describing their qualifications as well as future academic and professional goals; 2) a résumé outlining previous work experience, relevant courses (completed or in progress), extracurricular activities; and 3) contact information of two character references.

Email to:

Tom Mitchell-Olds, tmo1@duke.edu Department of Biology, Duke University

margaret.wagner@duke.edu

SanDiegoZoo ResTechGenetics

The Bud Heller Conservation Fellow will work in the Genetics Division at the San Diego Zoo Institute for Conservation Research, assisting with genetics research projects for endangered species represented at the San Diego Zoo Safari Park. Applicants must have knowledge of standard laboratory procedures, safety practices, and be skilled in the use and basic maintenance of general laboratory equipment. Experience in nucleic acid preparation and quantitation from various source materials is desired. Familiarity with PCR, automated sequencing, and microsatellite fragment analysis is preferred. Competence in Mac and/or Windows-based computer programs is essential, and understanding of molecular data analysis programs is a plus, as is knowledge of vertebrate taxonomic nomenclature. The applicant must have the ability to take direction, work as part of a team, follow through on assignments, and be neat and well organized. The position is grant funded and of approximately one years duration. Applications close on February 27. For more information or to apply visit this web site: http://bit.ly/1dvhPeF oryder@sandiegozoo.org

SouthAfrica FieldAssist Mongoose

I would be grateful if you could post the following; many thanks, andy

Subject: Job: South Africa, Field Assistant on Dwarf Mongoose Project

Main message:

We are seeking a research assistant to help conduct fieldwork.

The Dwarf Mongoose Project (http://-dwarfmongooseresearch.weebly.com/) was established in 2011 on Sorabi Rock Lodge Reserve, Limpopo Province, South Africa. Currently we work with 8 wild groups that have been habituated to the close presence of observers; group members are individually marked and many have been trained to climb on a balance scale to weigh themselves.

Work will include behavioural observations, sound recordings, GPS tracking, weighing of individuals and assistance with playback experiments. Researchers live in a house on the reserve and will be required to share a bedroom.

The post will commence beginning of May 2014 (application deadline: 14th March) with shortlisted applicants invited for interview at the end of March. Assistants need to be available for a minimum of 5 months and hold a valid driving licence.

Food and accommodation will be provided, but assistants will need to fund their own travel to the project.

Previous fieldwork experience, especially in Africa, will be viewed as advantageous.

To apply for the post, please send a cv (including names of 2 referees) and a cover letter to Julie Kern (julie.kern@bristol.ac.uk), University of Bristol.

bzzar@bristol.ac.uk

TunghaiU Taiwan EvolutionaryBiology

FACULTY POSITION IN ECOLOGY AND EVOLUTIONARY BIOLOGY (TAIWAN). The Department of Life Science, Tunghai University in Taiwan (website: http://biology.thu.edu.tw/main.php) seeks for applicants for a tenure-track assistant professor position or higher. We invite applicants with Ph.D. in any area of ecology and evolutionary biology. We are especially interested in applicants in the area of Invertebrate Zool-

ogy, Botany, Microbiology, and Ichthyology. Applicants with strong record of research, postdoctoral experience, and fluent Mandarin as the first or second language will be highly favored. We welcome applicants who employ theory, modeling, experiments, or some combinations. Tunghai University is a private university with high standard on undergraduate and graduate education (website: http://www.thu.edu.tw/). The initial review will begin on March 31st, 2014 until the position is filled. The start date for the position will be on August 1st, 2014. Applicants must submit the following documents via either regular mail to Human Resource (Subject: Faculty Application Materials; Address: Human Resource, Tunghai University, No. 1727, Sec. 4, Taiwan Boulevard, Xitun District, Taichung 40704, Taiwan; website: http://upto.thu.edu.tw/main.php) or e-mail to Mrs. Shu-Wen Hsiao (Subject: Faculty Application Materials; e-mail: sw2842@thu.edu.tw; Phone: +886-423590121 ext. 32402).

*A cover letter.

*Curriculum Vitae.

*Transcript for the highest education degree.

*Diploma certificate for the highest education degree.

*A copy of publications in the last five years.

*A statement of future research direction.

*A statement of teaching interests (list at least three putative courses).

*Three reference letters (confidential arrangement).

Thank you so much for your time and patients in advance. Please feel free to let me know if you have other questions about this request.

Sincerely yours, Shao-Lun (Allen) Liu Assistant Professor Department of Life Science, Tunghai University Taichung 40704, Taiwan Web: http://algae.thu.edu.tw/lab Shao-Lun Liu <shaolunliu@gmail.com>

UBern EvolutionaryBiology

Professor in Evolutionary Biology

The Institute of Ecology and Evolution of the University of Bern, Switzerland, announces a vacancy for a professorship (open rank) in Evolutionary Biology. The Institute has six full professors (chairs), several associated professors and junior group leaders, and it hosts a large international community of graduate students and post-doctoral researchers. The institute has an excellent reputation for research and teaching (www.excellenceranking.org) in all aspects of ecology and evolution.

Applications are sought from individuals with an outstanding research record in theoretical and/or experimental evolution. Candidates with a strong background in evolutionary genomics are also encouraged to apply. The candidate should have a doctorate in a relevant field, several years of postdoctoral and teaching experience, an interest in developing, testing and teaching evolutionary theory and in collaborating with other researchers of our institute. Senior researchers are also encouraged to apply. Hiring level, from tenure-track Assistant Professor to Full Professor, will be commensurate with experience.

The new faculty member will have responsibility for part of the teaching of evolutionary biology at undergraduate and graduate levels. All graduate teaching and advanced undergraduate teaching are in English.

The application should include a letter of motivation, a CV with a short research plan for the next 5 years, funding history, list of previous teaching and supervised MSc and PhD students, a list of publications, and the names and contact information for three references. Applications from women are strongly encouraged. Appointment will be either to tenure track or tenured, commensurate with experience. The earliest starting date for the position is August 1st 2015.

Applications must be submitted by April 10th 2014 as one PDF file to info@natdek.unibe.ch, and should be addressed to the Faculty of Science, University of Bern, Prof. Silvio Decurtins, Dean, Sidlerstrasse 5, 3012 Bern, Switzerland.

For further information, you can contact the institute director at director@iee.unibe.ch. More information about the institute can be found on www.iee.unibe.ch Laurent Excoffier <laurent.excoffier@iee.unibe.ch>

UCambridge 3yr EvolBiol

We are advertising an unestablished lectureship position in Ecology and Evolution. This appointment is to cover research leave funded by external (ERC) grants, but it is expected that the successful applicant will divide their time between research and teaching, as do

all academic staff. This is not just a teaching appointment. The position is available for a fixed period of 36 months full time equivalent. It may be held either full time for a period of three years, or part time for a longer period (e.g. 5 years at 0.6 FTE).

The advertisement has been placed in Nature to appear in w/b 24 February, and it is already available at Nature online (http://www.nature.com/naturejobs/science/-jobs/379637-temporary-unestablished-lectureship-in-evolution-ecology). It is on the University web site (www.jobs.cam.ac.uk/job/3184) and jobs.ac.uk (http://www.jobs.ac.uk/job/AID896/temporary-unestablished-lectureship-in-evolution-and-ecology/-) Further particulars are available at http://-www.jobs.cam.ac.uk/job/3184/ Please bring this opportunity to the attention of anyone who you think may be interested. We are particularly keen to attract applications from as many women as possible, as we have a historic imbalance in the number of women holding academic staff positions.

Please contact me if you have any questions

Chris Jiggins Reader in Evolution and Biological Diversity Department of Zoology University of Cambridge Tel: (+44)(0)1223 769021 Mob: (+44)(0) 7549-524-481 http://www.heliconius.org/-http://heliconius.zoo.cam.ac.uk/ Fellow of St John's College, Director of Studies in Biological Sciences Cambridge, UK. CB2 1TP

cj107@hermes.cam.ac.uk

UHawaii 2EvoDevo1MarineBiol

Three Assistant Professors: Evolutionary Developmental Biology and Marine Biology

The Department of Biology at the flagship campus of the University of Hawai'i seeks three new faculty two in developmental biology and one in marine biology who will complement existing strengths of its faculty (see http://manoa.hawaii.edu/biology). Successful applicants will be expected to establish a vigorous extramurally funded research program, as well as teach and mentor undergraduate and graduate students and postdoctoral scholars.

Areas of interest for the developmental biology positions include, but are not limited to, the integration of evolutionary developmental biology with the fields of ecology, genomics, and/or epigenetics. Teaching expectations for these positions will include undergraduate developmental biology and graduate courses in the successful candidates' fields of study.

For the marine biology position (pending approval), we seek applicants that use modern quantitative approaches in fields such as genomics or experimental ecology to understand patterns of diversity or speciation within natural populations of non-model marine organisms. Applicants with an organismal emphasis on the biology of corals or the ecology and evolution of other commensal/symbiotic systems are particularly encouraged, but all areas of research will be considered. Teaching expectations include leading one of two core courses in the new Marine Biology Graduate Program (www.hawaii.edu/mbiograd), and contributing to our Undergraduate Program in Marine Biology. Applicants must have a Ph.D. in biology or a related field, evidence of significant research accomplishments and a commitment to excellence in teaching. Desirable qualifications include relevant postdoctoral experience, extramural funding, and teaching experience.

To apply, please prepare a single PDF document that includes: a cover letter indicating how you satisfy the minimum and desirable qualifications; statements of research and teaching experience/interests; detailed curriculum vitae; and three representative publications. Also arrange to have three letters of reference submitted electronically. Review of applications will begin February 14, 2014. Applications, letters of reference and inquiries for the developmental biology positions should be sent to dbsearch@hawaii.edu, 808-956-4706. For complete job announcements, please refer to http://workatuh.hawaii.edu, Positions #84248 and #82208. Applications, letters of reference and inquiries for the marine biology position should be sent to mbfacsch@hawaii.edu. For a complete job announcement, please refer to http://workatuh.hawaii.edu, Position #83910.

The University of Hawai'i is an Equal Opportunity/Affirmative Action Institution and encourages applications from women and minority candidates.

Robert C. Thomson Assistant Professor Department of Biology University of Hawaii at Manoa Honolulu, HI 96822

thomsonr@hawaii.edu

UHawaii Hilo EvolutionaryCellBiol

Hi All,

We are looking for a cell biologist in the Biology Department at the University of Hawaii at Hilo. We are especially interested in someone who can work with others in the department that have expertise in ecology and evolutionary biology and help build a growing bioinformatics/genomics program.

http://workatuh.hawaii.edu/Jobs/NAdvert/18860/-2541122/1/postdate/desc Title: Assistant Professor (Biology/Cell Biology) Position Number: 0082909 Hiring Unit: College of Arts & Sciences Location: UH Hilo Date Posted: January 15, 2014 Closing Date: March 15, 2014 Salary Information: Commensurate with qualifications and experience. Monthly Type: 9 Month Tenure Track: Tenure Full Time/Part Time: Full Time Temporary/Permanent: Permanent Funding: General

Other Conditions:

- Appointment to begin approximately August 2014, pending position clearance and availability of funding.

Duties and Responsibilities

1. Teach undergraduate courses in Cell Biology, Cell and Molecular Biology, and Introductory Biology for majors. Develop an independent research program in area of expertise that is supported by extramural funding; advise students; participate in departmental governance and related University and community service. The University of Hawai'i at Hilo also offers the opportunity for participation in graduate programs.

Minimum Qualifications

1. Ph.D. from an accredited college or university in a biological science discipline appropriate to the position, teaching experience in biological sciences, research experience in area of expertise in cell biology, and demonstrated ability to work with students from diverse cultural backgrounds.

Desirable Qualifications

1. Demonstrated teaching experience at the college or university level in undergraduate courses in areas related to Cell Biology, Biochemistry, Molecular Biology, and Introductory Biology. Demonstrated record of student advising and training; a successfully funded research program in area of expertise in animal cell biology, and the ability to develop a research program in the Hawaiian or Pacific region that complements existing department strengths in plant ecology and evolution, with the potential to obtain extramural funding.

To Apply: Submit a cover letter indicating the position title and position number and how you satisfy the minimum and desirable qualifications, a curriculum vitae, academic transcripts, and statements of research and teaching interests. Please note that copies of transcripts are acceptable for application; however, original documents issued by a university registrar are required upon hire. Provide contact information for three (3) references. Electronic submissions are preferred and may be sent to awayaj@hawaii.edu. Address:

1. Dr. Jonathan Awaya 2. University of Hawai'i at Hilo 3. Biology Department 4. 200 W. Kawili St. 5. Hilo, HI 96720

Inquiries:

1. Dr. Jonathan Awaya; awayaj@hawaii.edu

Dr. Donald Price Director TCBES Graduate Program Professor of Biology

Science and Technology Building 109 University of Hawaii at Hilo Hilo, HI 96720

808-932-7178 donaldp@hawaii.edu

http://tcbes.uhh.hawaii.edu/ http://-www.hawaii.edu/uhhbiology/ http://-www2.hawaii.edu/ ~ donaldp/ Donald Price <donaldp@hawaii.edu>

UHawaii Hilo EvolutionaryEntomology

Hi All,

Another faculty position at the University of Hawaii at Hilo. In addition to the information below the person could participate in the Tropical Conservation Biology and Environmental Science Graduate Program (http:/-/tcbes.hilo.hawaii.edu/)

Title: Assistant Professor (Applied Entomology) Position Number: 0084768 Hiring Unit: College of Agriculture, Forestry and Natural Resource Management (CAFNRM)

http://workatuh.hawaii.edu/Jobs/NAdvert/18926/-2553351/1/postdate/desc Location: UH Hilo Date Posted: January 28, 2014 Closing Date: Continuous - application review begins April 16, 2014

Duties and Responsibilities Engage in scholarly activities and creative endeavors that support the academic mission of the University, including academic support, teaching courses, supervising independent studies, su-

pervise laboratories, interns and practicums; render service to the professional and lay community which is relevant to the individual's academic specialty; and serve as academic advisor to students and provide academic support in the instruction and application of general entomology, insect-plant and insect-mammal interactions, pest management, anatomy of insects and mammals, veterinary entomology, and biodiversity and invasive species management; provide students with quality applied learning experiences; engage in research, conduct surveys, and initiate studies for and identification of native and non-native arthropods, arthropod biodiversity, and ecosystem dynamics for application in the development of programs to manage and protect native arthropods in particular the higher elevations on Mauna Kea; prevent or control invasive and pest arthropods. Assist CAFNRM with revising curriculum and developing educational materials for community outreach. Other duties as required.

Minimum Qualifications Ph.D. in Entomology or closely related field with a strong emphasis on applied insect ecology and biodiversity. Demonstrated scholarly achievement; demonstrated poise, good interpersonal relationship with students and faculty; good communication verbal and written skills.

Desirable Qualifications Experience in molecular systematic techniques and morphology based taxonomy, expertise in Hawaiian arthropod taxonomy and systematics, arthropod field surveys and design. Demonstrated ability to work safely under a wide range of environmental conditions such as high elevations (9,000-13,800 ft.) and humid tropical forests. Demonstrated ability to use laboratory equipment and methods required for arthropod species identification and preservation. Familiarity with arthropod and plant community of alpine and subalpine zones particularly in Hawaii. Diverse entomological background including agricultural entomology experience. Demonstrated high quality teaching of entomology and related courses at the undergraduate level.

To Apply: Submit letter of application describing background, training and work experience. Electronic submission of applications is not acceptable. Also include in your letter other qualifications as well as teaching and research interests. With the letter of application, include your curriculum vitae, copies of transcripts (official transcripts will be required prior to employment)and three current letters of recommendation. Address:

Marsha Oshiro UHH CAFNRM 200 West Kawili Street Hilo, HI 96720

Inquiries: Dr. Bruce W. Mathews, Interim Dean of the College; bmathews@hawaii.edu The University of HawaiÊ≫i is an equal opportunity/affirmative action institution and is committed to a policy of nondiscrimination on the basis of race, sex, gender identity and expression, age, religion, color, national origin, ancestry, citizenship, disability, genetic information, marital status, breastfeeding, income assignment for child support, arrest and court record (except as permissible under State law), sexual orientation, domestic or sexual violence victim status, national guard absence, or status as a covered veteran.

Individuals with disabilities who need a reasonable accommodation for the application or hiring process are encouraged to contact the EEO/AA coordinator(s) for the respective campus.

Employment is contingent on satisfying employment eligibility verification requirements of the Immigration Reform and Control Act of 1986; reference checks of previous employers; and for certain positions, criminal history record checks.

In accordance with the Jeanne Clery Disclosure of Campus Security Policy and Campus Crime Statistics Act, annual campus crime statistics for the University of Hawaii may be viewed at: http://ope.ed.gov/security/, or a paper copy may be obtained upon request from the respective UH Campus Security or Administrative Services Office.

Dr. Donald Price Director TCBES Graduate Program

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

UManchester EvolutionaryBiology

Full Professor in Evolutionary Biology

We are seeking to appoint a Full Professor (Chair) in Evolutionary Biology in the Faculty of Life Sciences at The University of Manchester. Candidates must be internationally-leading scientists with an appropriate level of academic achievement in relevant fields of evolutionary biology, with a strong commitment to developing both individual and team-based research programmes, and who could inspire the next generation of researchers through their teaching excellence. A strong

track record in published research, the supervision of postgraduate students and the ability to secure major competitive grant funding is expected. Further particulars concerning the post can be found here (http://-bit.ly/LM3IdG)

The successful candidate will join the large number of researchers in the Faculty of Life Sciences studying a range of topics in evolutionary biology from evolutionary genetics to paleontology to evolutionary ecology. More information on our current research groups in the area of Evolutionary Biology can be found here (http:/-/bit.ly/MrBwx0) and here (http://bit.ly/1bnulMn)

Informal enquiries can be made to Dr Daniela Delneri (d.delneri[at]manchester.ac.uk) or Casey Bergman (casey.bergman[at]manchester.ac.uk).

Reference: LSX-03946 Closing date: 24/02/2014

casey.bergman@manchester.ac.uk

UMass Amherst EvolutionFloralDevelopment

UNIVERSITY OF MASSACHUSETTS/AMHERST

POSITION AVAILABLE

The Bartlett lab, recently started at the University of Massachusetts Amherst, is looking for a qualified applicant to fill a Research Fellow position.This is a non-benefited position.In the Bartlett lab we use a number of approaches, including molecular genetics, protein biochemistry, and phylogenetics, all with the ultimate goal of understanding the evolution of floral development, particularly in the monocots.Tasks associated with this position will vary, but may include molecular lab work (e. g. next-gen sequencing library prep, DNA, protein, and RNA extraction, PCR, electrophoresis), lab management, summer fieldwork growing corn, plant care (e. g. /Arabidopsis/, barley, /Brachypodium/, corn, tobacco), and training undergraduate researchers.

Initial appointment for one year; reappointment beyond first year is contingent upon availability of funding and job performance.A Bachelors degree in biology or related field and at least 6 months experience working in a molecular lab are required. This position is perfect for someone thinking about pursuing a graduate degree in plant biology.The position needs to be filled before our summer field season, but an earlier start date is possible (even preferred).Salary commensurate with experience and contribution toward the cost of health insurance negotiable.To apply online, please go to: http://umass.interviewexchange.com/-jobofferdetails.jsp?JOBID=46449and submit a resume, cover letter, and contact information for references. Review of applications will begin on March 3, 2014 and continue until the position is filled.The University of Massachusetts is an Affirmative Action/Equal Opportunity Employer.Women and members of minority groups are encouraged to apply.

Thanks again.

Lisa

Lisa Barry <lisak@bio.umass.edu>

UMass Amherst EvolutionFloralDevelopment Correction

This job was originally posted as a postdoc position. A PhD is not required for this position.

UNIVERSITY OF MASSACHUSETTS/AMHERST

POSITION AVAILABLE

The Bartlett lab, recently started at the University of Massachusetts Amherst, is looking for a qualified applicant to fill a Research Fellow position.This is a non-benefited position.In the Bartlett lab we use a number of approaches, including molecular genetics, protein biochemistry, and phylogenetics, all with the ultimate goal of understanding the evolution of floral development, particularly in the monocots.Tasks associated with this position will vary, but may include molecular lab work (e. g. next-gen sequencing library prep, DNA, protein, and RNA extraction, PCR, electrophoresis), lab management, summer fieldwork growing corn, plant care (e. g. /Arabidopsis/, barley, /Brachypodium/, corn, tobacco), and training undergraduate researchers.

Initial appointment for one year; reappointment beyond first year is contingent upon availability of funding and job performance.A Bachelors degree in biology or related field and at least 6 months experience working in a molecular lab are required. This position is perfect for someone thinking about pursuing a graduate degree in plant biology.The position needs to be filled before our summer field season, but an earlier start date is possible (even preferred).Salary commensurate with experience and contribution toward the

cost of health insurance negotiable.To apply online, please go to: http://umass.interviewexchange.com/-jobofferdetails.jsp?JOBID=46449and submit a resume, cover letter, and contact information for references. Review of applications will begin on March 3, 2014 and continue until the position is filled.The University of Massachusetts is an Affirmative Action/Equal Opportunity Employer.Women and members of minority groups are encouraged to apply.

Madelaine Bartlett Assistant Professor Biology Department 108 Morrill Science Center South 611 North Pleasant Street University of Massachusetts Amherst Amherst, MA 01003 phone: 413-545-2235

madelaine.bartlett@gmail.com

UMinnesota Tech PopGenetics

The McGaugh and Brandvain lab groups at the University of Minnesota are looking for an enthusiastic and experienced technician to join our group in early Summer 2014. The labs study the genomic basis of speciation, adaptation and related problems in animal and plant systems, respectively.

The technician will be in charge of daily function and operation of the McGaugh-Brandvain labs including the purchasing of supplies, and maintenance of a safe and productive physical and computational environment. We are looking for someone who will split time between the research in the Brandvain lab and the McGaugh lab. For both lab groups daily activities will consist of computational genomics and bioinformatics with some wet-lab bench work. The technician will also need to maintain fish and fly stocks.

The successful candidate will also be a good lab citizen (e.g. prepare for and attend lab meetings) and will have opportunities for professional development and independent research projects which mesh well with the major interests of the labs.

Required Qualifications:

At the time of employment, but not necessarily at the time of application:

Bachelor's degree with a major in genomics, evolution, genetics, or related fields, or a combination of related education and relevant work experience related to the job totaling at least four (4) years.

Preferred:

1) Graduate degree in genomics, evolution, genetics, or related fields

2) >1 year research experience in a population genetics or genomics lab.

2) Experience with next-gen sequence data or the motivation to handle and analyze such data

3) Experience with scripting/programming languages including R, python, and/or C++

4) A desire to lead an integrative and motivated group of young scientists. Patience, dedication, and enthusiasm.

If interested in the position please send an email with your CV and contact information for references to

ybrandva <at> umn <dot> edu

smcgaugh <at> umn <dot> edu

Please find more information and application instructions at:

employment.umn.edu/applicants/Central?quickFind7891

Suzanne McGaugh <smcgaugh@umn.edu>

UNAM Mexico EvolutionaryBiology

Position opening at the Instituto de Ecologia, UNAM, Mexico, at the Associate Researcher C level.

The application description is in spanish, due to its requirement of spanish proficiency.

El Instituto de Ecología (IE), UNAM (www.ecologia.unam.mx) invita a los interesados que cumplan con los siguientes requisitos a participar por dos puestos de trabajo, por obra determinada, equivalentes a Investigador Asociado "C" de tiempo completo, de acuerdo con las siguientes

Bases:

a) Tener grado de doctor y experiencia posdoctoral

b) Haber trabajado cuando menos tres años en labores de investigación y docentes en alguna de las siguientes áreas de la ecología:

§Ecología de ecosistemas y su relación con problemáticas ambientales para entender las interacciones entre los diferentes aspectos funcionales de los ecosistemas, a diferentes escalas espaciales o temporales; y/o ecología de ecosistemas con especialidad en hidrología y en la interacción entre los procesos ecológicos e

hidrológicos superficiales y subterráneos, así como en el ciclo de nutrientes.

§Agroecología y el papel de las interacciones biológicas en los agroecosistemas y cómo éstas pueden contribuir al desarrollo de estrategias sostenibles en la producción agrícola en México.

§Ecología teórica en dinámica de poblaciones, interacciones poblacionales y/o dinámica de comunidades, epidemiología y modelación matemática.

§Ecología evolutiva comparada, con énfasis en el desarrollo y empleo de métodos filogenéticos para el estudio de la adaptación y evolución en distintos niveles de organización.

c) Haber publicado trabajos en revistas científicas indizadas de circulación internacional y demostrar experiencia docente.

d) Se dará preferencia a los candidatos que sean menores de 38 años (mujeres) y 36 (hombres).

e) En caso de ser extranjero tener buen dominio del idioma español.

Pruebas:

1. Elaborar un proyecto de investigación en el área de su especialidad.

2. Elaborar un plan de trabajo que incluya las actividades de investigación, docencia y formación de recursos humanos, proyectado a tres años, indicando el potencial de colaboración con investigadores del Instituto de Ecología y con grupos multidisciplinarios que aborden problemas relacionados con el uso sostenible de los recursos naturales.

3. Se dará preferencia a los candidatos con una sólida formación académica, que combinen aspectos teóricos y empíricos y cuyo proyecto de investigación se vincule a la solución de problemas nacionales relacionados con el ambiente y la ecología.

Documentación requerida:

1. Carta de intención dirigida al director del instituto, Dr. César Domínguez Pérez Tejada

2. Curriculum vitae con documentación probatoria

3. Descripción breve de intereses actuales y futuros en investigación

4. Propuesta de investigación y plan de trabajo

5. Título de doctorado

6. Acta de nacimiento

Los interesados deberán enviar la documentación a la Secretaria Académica (secacad@ecologia.unam.mx) y a la dirección (direccion@ecologia.unam.mx), entre el 30 de enero y el 20 de febrero de 2014, en horario de 10:00 a 15:00 horas (horario central de México). Los documentos pueden enviarse por vía electrónica (pdf) y posteriormente de forma impresa.

Dirección de correo: Instituto de Ecología, UNAM, Ap. Postal 70-275, Ciudad Universitaria, México DF, CP 04510, México.

Proceso de selección:

1. El Consejo Interno de IE hará una primera selección de los candidatos basándose en los méritos académicos, el proyecto de investigación y el plan de trabajo.

2. Los candidatos seleccionados serán invitados a dar un seminario de contratación y a entrevistarse con los miembros de la comunidad académica.

3. El Consejo Interno dará a conocer los nombres de los candidatos seleccionados.

Ella Vazquez <evazquez@ecologia.unam.mx>

UNAM Mexico SystematicBotany

Position opening - Instituto de Biología, Universidad Nacional Autónoma de México Systematic Botanist or Mycologist

The Instituto de Biología, Universidad Nacional Autónoma de México (IB-UNAM), whose principal mission is the study of the biodiversity of Mexico, and houses the national biological collections, invites applications for a tenure-track, full time position of Associate Researcher level "C", in systematic botany or systematic mycology at the main University campus, Mexico City.

Requirements for candidates: 1. A Ph.D. degree or equivalent, preferably in botany, mycology, systematics, evolutionary biology, or a related discipline. 2. Experience in systematic research of vascular plants or fungi, demonstrated by original, high quality publications, commensurate to age and academic trajectory. 3. Knowledge of the vascular flora or mycota of Mexico and/or the Neotropics, particularly in one or more groups whose diversity is exceptional in Mexico, as well as experience in the curation of scientific collections, techniques of field collecting, morphology, molecular systematics, or genetics. 4. A commitment to participate in activities complementary to investigation, such as teaching in educational programs at UNAM, direc-

tion of theses at the undergraduate and graduate level, activities of science outreach, and institutional participation. 5. Willingness to participate immediately in the academic activities of the IB-UNAM, practice leadership in his or her area of research, and demonstrate capacity to become part of a research group. 6. Demonstrable proficiency in Spanish.

Applicants should submit a letter of intent directed to the Academic Secretary of the IB-UNAM with a detailed statement of purpose; a full curriculum vitae with contact information (supporting documentation is not necessary at this stage); PDF reprints of publications that the applicant considers the most important of their professional trajectory (maximum of five); a synthetic outline of research goals for the first year (5 pages maximum); and a letter of recommendation. The required documentation must be received by May 30, 2014. Shortlisted candidates will be contacted for a personal interview.

Inquiries regarding this announcement should be addressed to Dr. Atilano Contreras-Ramos, Academic Secretary of IB-UNAM, e-mail: acontreras@ib.unam.mx. Applications will be received at the email address sacademica@ib.unam.mx.

s.magallon@ib.unam.mx

UNorthCarolina Charlotte Bioinformatics

UNC-Charlotte's Bioinformatics and Genomics Department is engaged in a multi-year expansion. In addition to the new $35M Bioinformatics Building the department has the leadership role in Bioinformatics in the North Carolina Research Campus (NCRC) in Kannapolis. NCRC is a $1B research park that is becoming home to academic and industrial research. As a whole our programs goals are to use these platforms to perform research and teaching in the fields that bioinformatics touches upon including but not limited to: defense, agriculture, health care, and natural sciences.

Some of our work is illustrated here: http://-viscenter.uncc.edu http://supramap.org We seek a Bioinformatics Research Associate with M.S. or Ph.D. in a technical field and experience in the following: Java, R, GIT, KML, biomedicine, evolution, and visual analytics. The bioinformatics research associate will initially work closely with stakeholders in studies of the evolution of infectious diseases to integrate software components to each other into a novel workflow.

send CV to unccpostdoc@gmail.com and note EPA Position Number 14256

unccpostdoc@gmail.com

UNotreDame ResTech BehavioralEvolution

A full-time research technician position is available in the Biology Department at the University of Notre Dame. The PI, Beth Archie, is a behavioral ecologist, and members of the Archie Lab study the evolution of animal social behavior using tools from microbial ecology, disease ecology, immunology, and population genetics. Our main research system is the wild baboon population living in Amboseli National Park, Kenya http://amboselibaboons.nd.edu/. For more information about the Archie Lab, see our web page at http://blogs.nd.edu/archielab/ . The position will involve 50% research and 50% data and lab management. The successful applicant will contribute to a long-term database on parasitology, perform genetics bench work, organize and curate a collection of biological samples, help manage data, and assist in day-to-day running of the lab (e.g. ordering supplies, helping students). A Bachelor's degree in biology, or a related discipline, is required. Successful applicants will be detail oriented, eager to learn new techniques, and enthusiastic about biology and working in an academic lab environment. Prior experience with parasitology and/or basic genetic techniques (e.g., DNA extraction, PCR, gel electrophoresis) is preferred, but not required. Notre Dame has strong research programs in ecology, evolution and infectious disease in a Biology Department with collegial and interactive faculty and students. The department houses state-of-the-art genomics and imaging cores, more information on departmental and other college faculty and facilities can be found at http://-biology.nd.edu and http://science.nd.edu.

The position can begin as early as April 2014, but there is flexibility in the start for strong applicants (into early summer). Applications will be considered starting 1 March 2014 and the position will remain open until filled. Salary is commensurate with experience. Interested applicants should apply online at http://ND.jobs under job number 14073. Please submit: (1) your CV, (2) a cover letter explaining your background, interest and qualifications for the position, and (3) contact in-

formation for three references, including your relationship to the reference, their phone number, email address, and mailing address. Please contact Beth Archie at earchie@nd.edu for informal inquiries.

Beth Archie University of Notre Dame Department of Biological Sciences 137 Galvin Life Science Center Notre Dame, IN 46556 Phone: (574) 631-0178 Email: earchie@nd.edu

beth.archie@gmail.com

UParis13 EvolutionaryEthology

Our laboratory currently has an open position for a full professor in ethology. The profile will include mechanistic, functional and evolutionary approaches, and thus I was thinking that EvolDir could be a suitable platform to post this position.

Full Professor - Ethology

The /Laboratory of Experimental and Comparative Ethology (LEEC) – EA 4443/, University of Paris 13, is inviting applications for the position of a Professor in Ethology (69 PR 0949), with tenure status and salary commensurate with qualifications and experience.

The successful candidate will succeed Professor Dominique Fresneau, who has recently announced his retirement. Applicants should have a strong track record of international excellence and external grant funding. The successful candidate will be expected to develop an innovative research program in ethology and must demonstrate the ability to successfully mentor young researchers.

The research activities at the Laboratory of Experimental and Comparative Ethology cover various aspects of social behaviour using mechanistic, functional and evolutionary approaches. The position also remains open to other topics as long as they are located within the field of ethology.

The position includes teaching at the bachelor (psychophysiology) and master level (Master in Ethology). The latter is nationally recognized for its significant role in the formation in basic and applied ethology.

Application is electronic via a national portal (/Galaxie/; deadline for application: 01. April 2014). Interested candidates should contact us as soon as possible for further information on the position and on electronic application procedure. In addition to the obligatory application via /Galaxie/, please send curriculum vitae and list of publications to: Heiko.Rodel@leec.univ-paris13.fr

Contact:

Prof. Heiko G. Rödel, Director of the LEEC (Heiko.Rodel@leec.univ-paris13.fr); Prof. Patrizia d'Ettorre, Head of the teaching department of psychophysiology (Patrizia.dEttorre@leec.univ-paris13.fr); Prof. Dominique Fresneau (Dominique.Fresneau@leec.univ-paris13.fr)

Laboratoire d'Ethologie Expérimentale et Comparée EA 4443, Université Paris 13, Sorbonne Paris Cité, 99 avenue J.B. Clément, F-93430 Villetaneuse, France. Phone:+ 33 (0)14940 3259; Fax: + 33 (0)14940 3975; http://leec.univ-paris13.fr/ The University of Paris 13 is an Equal Opportunity Employer. http://www.univ-paris13.fr/ Heiko Rödel

Prof. Heiko G. Rödel Directeur Laboratoire d'Ethologie Expérimentale et Comparée - EA 4443 Université Paris 13, Sorbonne Paris Cité 99 av. J.-B. Clément, F-93430 Villetaneuse, France Tel. +33(0)14940 3218 http://leec.univ-paris13.fr http://-www.researchgate.net/profile/Heiko_G_Roedel/ Heiko Rödel <heiko.rodel@leec.univ-paris13.fr>

UPennsylvania LabFieldTech MicrobeEvolution

Job: Laboratory/Field Technician Department of Biology, University of Pennsylvania

A laboratory/field technician position is available in the ecology and evolution of infectious microbes lab led by Dustin Brisson at the University of Pennsylvania. The main focus of the projects involves the bacterial cause of Lyme disease, Borrelia burgdorferi. The position entails both molecular laboratory activities as well as wildlife (Peromyscus mice) handling activities. Most importantly are intellectual skills to integrate ideas across multiple scales of biological complexity (i.e. molecular-level, organism-level, and population-level).

We are seeking a highly motivated, enthusiastic, and enquiring individual with a background in evolutionary biology or ecology. Strong molecular genetic skills and wildlife handling experiences are highly advantageous. The successful candidate will conduct both molecular biology and animal handling and will contribute to formulation of experiments, data collection, and data anal-

ysis.

A Bachelor's degree in biology (or a related science) OR 2 years of experience or equivalent combination of education and experience is required.

The University of Pennsylvania has a strong group of evolutionary biologists and ecologists in the biology department that frequently interact with each other and with an accomplished group of microbiologists in the Medical and Veterinary schools.

Salary is commensurate with experience.

To apply, please send (1) a cover letter outlining your previous experiences that make you suited for this position as well as the your research, training, and career goals, (2) CV, and (3) Contact information for 3 references via email to dbrisson@sas.upenn.edu.

Official applications must be submitted through the human resources department at the University of Pennsylvania (https://jobs.hr.upenn.edu/postings/2488 - or search ref# 02-16967). Please include relevant documents including reference contacts and a CV.

Please send enquiries to dbrisson@sas.upenn.edu Dustin

Dustin Brisson Department of Biology University of Pennsylvania Leidy Laboratories, 209 433 South University Avenue Philadelphia PA 19104-6018

http://www.bio.upenn.edu/faculty/brisson/- https://sites.sas.upenn.edu/brisson-lab/ dbrisson@sas.upenn.edu V:(215) 746-1731 F:(215) 898-8780

dbrisson@sas.upenn.edu

UQuebec Rimouski EvolutionSignalPathways

FACULTY POSITION IN CELLULAR BIOLOGY AT THE UNIVERSITÉ DU QUÉBEC À RIMOUSKI

The Université du Québec à Rimouski is offering a tenure-track position in cell and system biology. The candidate will be affiliated with the Biology Department and will teach undergraduate and graduate courses in cell biology and cell physiology. The departement includes faculty working in terrestrial ecology, marine biology, evolutionary physiology, and population genetics with a strong commitment to research in nordic environments. Preference will be given to candidates studying signaling pathways in an evolutionary context to understand responses to environmental stressors. The candidate is expected to develop a strong research program in system biology and to seek active collaborations with members of the department. The candidate will be expected to teach in french. The Université du Québec à Rimouski has an excellent reputation in research having won twice the title of ≪ best university in research in Canada ≫ in its category (65 institutions). The graduate programs in biology include up to 100 students (DESS, M.Sc., Ph.D. levels).

Interested candidates should send their cv as well as three contact names for references to the attention of Dr. Pierre Blier at : pauline_dube@uqar.ca. Applications will be accepted until May 1st 2014.

Pierre Blier <pierre.blier@gmail.com>

USouthernCalifornia LabTech CopepodSpeciation

Laboratory Research Technician

University of Southern California, Los Angeles

The Edmands lab seeks a full-time research technician for studies of the genetics of speciation in a marine copepod. Duties would include 1) development and maintenance of a very large breeding study, 2) assistance with molecular assays, 3) data entry and analysis and 4) general lab management. The position is for 12 months, beginning approximately June 2014. For more information on the range of research projects conducted in our lab, please see our website at https://dornsife.usc.edu/-labs/edmands/ Applicants should have a bachelor's degree in biology or a related field, and a strong background in genetics and/or evolution. Other qualifications include excellent organizational skills, the ability to work independently, a high tolerance for microscope work, and above average manual dexterity. Previous experience in a lab environment, particularly with molecular tools, is also desirable but not required.

Salary is commensurate with experience and a full benefits package is included. Please apply via email to Suzanne Edmands (sedmands@usc.edu) and include a resume, contact information for three references and a cover letter describing your experience, your interest in the position, and your desired start date. Applications will be considered until the position is filled.

Suzanne Edmands Professor Department of Biological Sciences 3616 Trousdale Parkway, AHF 316 Uni-

versity of Southern California Los Angeles, CA 90089 edmandss@gmail.com
(213)740-5548 http://dornsife.usc.edu/labs/edmands/

Other

Alberta VolunteerInternship GroundSquirrelEcology

Field Assistants Required-Columbian ground squirrels Kananaskis, Alberta, Canada

We are looking for 4 volunteers to assist with fieldwork for the period of April 10 to Aug 31, 2014. The project investigates the ecology of Columbian ground squirrels. As a member of the study, assistants will be involved with monitoring the phenology (when animals emerge from hibernation), reproduction and survival of individuals. Fieldwork will involve live-trapping and handling of animals, radio-telemetry, behavioural observation and assistance with the measurement of physiological (metabolism) traits on free-ranging animals. This is an excellent opportunity to gain experience working with a collaborative research team on a long-term study of a wild mammal.

All fieldwork is carried out in the spectacular Rocky Mountains of southwestern Alberta, Canada, home to some of the most majestic wildlife in North America. We will be staying at the University of Calgary's R.B. Miller and Barrier Lake research stations in Kananaskis, Alberta (http://bgs.ucalgary.ca/-facilities/facilities). You will interact with other researchers working with ground squirrels on a diversity of projects in behavioural and population ecology. Additionally, the field stations are home to a number of other researchers working on a variety of projects, ranging from insects to large mammals.

Food and accommodation are provided. Volunteers are required to provide for their own travel to Saskatoon, Saskatchewan. Travel between the field station and Saskatoon provided. Training will be provided and no experience is necessary, but candidates should have an interest in a number of the following (the more the better!): ecology, evolutionary biology, wildlife, field biology, and animal behaviour. Periods of time will be spent camping and, as such, successful applicants need to enjoy the outdoors, be up-beat, positive, responsible and work well as a member of a team.

If you wish to apply for one of these posts then please send a CV with a cover letter and contact details for three references (with e-mail addresses), by email to Jeff Lane (contact info below), by Feb 28, 2014.

Contact: Dr. Jeff Lane Department of Biology University of Saskatchewan u.columbianus@hotmail.com www.lanelab.ca jeffrey.lane@usask.ca

Arlequin question

My study species is divided into two major genetic groups and I want to detect loci under selection when accounting for hierarchical structure in Arlequin v. 3.5 (Excoffier 2009). I get the following error message

* Observed F-statistics lead to invalid migration rates. Coalescent simulations cannot be performed. Perform a simple AMOVA to check that all F-satistics are within the interval [0..1[.*

The F-statistics for my study species is as follow:

FCT = 0.098

FSC = 0.052

FIS =-0.063

FIT = 0.091

Fis is highly negative and I am not sure what would cause this. What can I do in this case to be able to

run the program to detect loci under selection?

Thank you very much for your help.

Simon Nadeau

Simon Nadeau, M. Sc. Student

Forest Science Department, Faculty of Forestry University of British Columbia / Natural Resources Canada - Canadian Forest Service 2424 Main Mall, Vancouver, BC, Canada V6T 1Z4 / 1055 rue du Peps, Quebec, QC, Canada G1V 4C7 simon.nadeau.ubc@gmail.com *www.*linkedin.com/pub/simon-nadeau/42/227/b89 Tel: (604) 349-5196

Simon Nadeau <simon.nadeau.ubc@gmail.com>

Australia BirdBandingVolunteers

Looking for bird banders. Eastern Yellow Robin in Victoria, Australia. Experience with blood collection We are following up the leads by a recently published paper (Pavlova et al. 2013; Evolution doi: 10.1111/evo.12107) that describes the occurrence of two very divergent haplogroups in Eastern Yellow Robin across the Great Dividing Range in Eastern Australia. Recently we collect some samples across a transect in the blue mountains (NSW) and found that the transition zone is VERY sharp. This opens exciting research opportunities for evolutionary and conservation genomics. We are looking to replicate the transect down in Victoria, ideally somewhere between Traralgon and Shepparton. We are of course looking for keen volunteers as the project does not have (currently) any money allocated for salaries. But most expenses are of course covered. A-class and experience with blood collection are required.

If you're interested, know of anyone that might be interested, or want to know more about the project; please send me an email. hernan.morales@monash.com

Hernán Morales PhD candidate School of Biological Sciences Monash University, Melbourne Clayton Campus 3800 Victoria, Australia Ph: +61 3 99053844

Research Gate: https://www.researchgate.net/-profile/Hernan_Morales/ Hernan Morales <hernan.morales@monash.edu>

BeckmanCoulter needed

Dear EvolDir,

I am hoping someone can help me with a technical problem I have. I urgently need to genotype some DNA samples at microsatellite loci before sending them for RAD-seq analyses. I have a well developed lab pipeline for this, however our Beckman Coulter CEQ8000 is broken

and likely not to be fixed anytime soon. I am therefore looking to visit a lab somewhere in the UK which still has a working Beckman CEQ8000. I estimate the work would take 3-4 days and all consumables would be supplied by me. I would also prepare sample plates prior to the visit, so all I would need is a working machine.

If anyone has a working Beckman CEQ8000 and would be willing to host me for a few days please do get in touch with me at d.l.jeffries@2006.hull.ac.uk. It would be very much appreciated, and I would of course be happy to return the favor in any way I can.

Best regards Dan Jeffries

PhD Student - Evolutionary Biology Group

University of Hull

D.L.Jeffries@2006.hull.ac.uk

BookAbstracts ClimateAdaptation

Dear colleagues,

Book of Abstracts and presentations from the international conference on "Genetic Resources for Food and Agriculture in a Changing Climate" held in Lillehammer 27th-29th of January, 2014, are now made available at the conference website climate.nordgen.org

If you want a hard copy of the Book of Abstracts, please, send an email to anne.praebel@nordgen.org

Best regards, Anne Præbel

Dr. Anne Kettunen Præbel Senior Scientist NordGen - Nordic Genetic Resource Center P.O.Box 115, NO-1431 Ås, Norway Street address: Raveien 9, 1430 Ås Phone: +47 6494 9772, mobile: +47 9778 0903 anne.praebel@nordgen.org www.nordgen.org anne.praebel@nordgen.org

Coefficients of relationship

Dear All: In a straightforward pedigree, the R-value between an ancestor and a descendant, k generations apart, is (1/2)^k. In more complicated pedigrees, pathways have be identified and corrections for inbreeding made. Does anyone know of any studies (any organism) in which DNA data have been used to verify these values? Many thanks in advance.

Bill Chapco.

Dr. William Chapco Professor Emeritus Department of Biology University of Regina Regina, SK, S4S 0A2 Canada 306-585-4478 306-337-2410 (FAX) chapco@uregina.ca

William.Chapco@uregina.ca

Dry shipper recommendation

Hello all.

I am in need of a dry shipper that will house 300x2ml vials for ~17 days (14 days field, plus travelling time - although there is a possibility of recharging the shipper on the way home, and thus shaving off a couple of days from that) in a tropical setting (average temperature 35 oC). I wish to snap freeze insects for RNA analysis (thawing the samples in RNAlater-ICE once back in the lab). I am wondering if anyone has had any experience with this sort of field work, and is willing to recommend a good dry-shipper that would fit the bill and perhaps share any tips in the handling of the samples.

Thank you for your time. As per recommended, I will share responses with the group.

Best regards.

Anders.

andersgs@gmail.com

ESEB OutreachFund DeadlineMar15

ESEB Outreach Fund

The European Society for Evolutionary Biology (ESEB) welcomes applications to the ESEB Outreach Fund for projects that promote evolution-related activities. With a total annual budget of 15000 Euro, the goal of this initiative is to improve public knowledge about evolution globally.

Applications for funding will be accepted for educa-

tional initiatives that promote evolution, development of evolutionary material (books, films, websites) intended for a general audience, public outreach seminars, public exhibitions, etc. While most projects will be financed for a sum between 1000-1500 Euro, exceptions can be made if a strong argument is provided for additional funds.

The application form can be found on www.eseb.org (click on the "Outreach Fund" link). Applications will be accepted twice yearly (deadlines March 15, September 15) and should be submitted by email to Ute Friedrich (office@eseb.org; Subject: Outreach).

– Ute Friedrich ESEB Office Manager Email:office@eseb.org

European Society for Evolutionary Biology www.eseb.org office@eseb.org

EvoDevo Undergrad Summer research grants

Dear Colleague,

Kindly share this opportunity with interested undergraduates:

Please note the upcoming deadline for UNDERGRADUATE SUMMER research exchange grants from the Evo-Devo-Eco Network (EDEN) is March 11, 2014. EDEN is a program funded by the National Science Foundation of the USA. The goal of this program is to train undergraduates in the field of Evo-Devo-Eco, with an emphasis on emerging model systems.

Eligible students should be undergraduates of any nationality at any college or university, including liberal arts colleges, community colleges, and universities, both within and outside of the U.S.. Eligible host labs should be conducting research using new and emerging model organism and must be at a U.S.-based institution. If the proposed host lab is working on a well-established model organism, your application must explain how the techniques or skills that you learn in the host lab will be applied to work on new or emerging model organisms at your home institution.

Students may apply to work in a lab that is at their home institution, as long as the proposed research involves new and emerging model organisms. However, in cases where all other aspects of applications are considered to be equally competitive, preference will be given to applicants who propose to travel to a lab that is not at their home institution.

Please visit http://edenrcn.com/funding/-ugrad_internships.html for complete program details.

For examples of previous undergraduate projects supported by EDEN, please visit http://edenrcn.com/ree/-undergrad.html . We hope you and your students will take advantage of this opportunity!

Best wishes,

Cassandra Extavour

Dr. Cassandra Extavour extavour@oeb.harvard.edu

Associate Professor Department of Organismic and Evolutionary Biology Harvard University 16 Divinity Avenue, BioLabs 4103 Cambridge, MA 02138, USA

http://www.extavourlab.com Office Tel. 1 617 496 1935 Lab Tel. 1 617 496 1949/1200 Fax. 1 617 496 9507

Extavour Lab Administration: Mimi Velazquez Tel. 1 617 496 2132 nvelazquez@oeb.harvard.edu

EDEN: Evo-Devo-Eco Network http://-www.edenrcn.com edenrcn@fas.harvard.edu

EDEN Administration: Barbara Perlo perlo@fas.harvard.edu

EDEN Grants <edenrcn@fas.harvard.edu>

EvolutionCourses survey

Hi All,

Here's a link to a 4-question short, informal survey on the requirements to take Genetics and Evolution. If you're aware of the requirements at your university/institute, please contribute!

https://docs.google.com/forms/d/-1rcZm4cyh6JPAVP6H7SrWxySpH4YUmg-sTicO__a-Bt0/viewform Thanks, – Emily

Emily Weigel

PhD Candidate Boughman Lab < https://-www.msu.edu/user/boughman/ > Zoology Department Ecology, Evolutionary Biology and Behavior Program Michigan State University BEACON Center for the Study of Evolution in Action https://www.msu.edu/user/weigelem/index.html weigelem@msu.edu Office: 365 Giltner Hall Follow

@choosy_female on Twitter!

emilygweigel@gmail.com

ForkbeardFish samples

My name is Ana Rita Vieira and I am a PhD student from Faculty of Sciences, University of Lisbon, Portugal, under supervision of Dr. Leonel Serrano Gordo.

In my PhD project, I am working with a fish species, the forkbeard (Phycis phycis), and I am trying to define the population structure of this species in the NE Atlantic, using several techniques commonly used in fisheries management (otolith shape, body geometric morphometrics, and genetics). In genetics, I am using a phylogeography approach to achieve my goal.

The forkbeard has a wide distribution in Europe, occurring from the Bay of Biscay to Morocco, south to Cape Verde and in the Mediterranean Sea. This fish species is commercially exploited in Europe, being easily found in fish markets.

For the phylogeography approach, I need samples from the entire distribution area of forkbeard. At this moment, I have samples from Portugal (mainland, and Madeira and Azores archipelagos), Spain (Alboran Sea), and Croatia (Adriatic Sea). To achieve my goal, I must obtain samples from North of Spain (Bay of Biscay), South of France, Italy (Tyrrhenian and/or Ligurian Seas) and Greece (Aegean and/or Ionian Seas).

I am writing you because I would like to ask if the EvolDiv community can help me in collecting samples from the areas described above.

The collection process is simple and does not require the purchase of the specimens. It is only necessary to cut a small piece of any fin of each specimen (~20 specimens per area, but any number is welcome), and store it in small tubes with 96ÂO alcohol. If samples can be provided, I will send the tubes with the alcohol.

Thank you for considering my request.

Best regards,

Ana Rita Vieira

PhD student Centro de Oceanografia Faculdade de Ciências da Universidade de Lisboa C2, Lab 2.5.15A Campo Grande, 1749-016 Lisbon, Portugal

Tel: +351 217500824 (ext. 22515) E-mail: arivieira@fc.ul.pt ana.vieira83@gmail.com

< http://.co.fc.ul.pt/ >

logotipo (3)

Ana Rita Vieira <arivieira@fc.ul.pt>

FrenchGuiana TravelGrants

*Nouragues Travel Grants Program 2014 *

The Nouragues annual call for proposals is aimed at facilitating access to the Nouragues station for scientists of all research fields. Graduate students, post-doctoral researchers, and established scientists may apply.

Submitted proposals will be evaluated by a Science Advisory Board and selected based on their excellence, the quality of expected publications, and the feasibility of the project. The grants will not exceed 9,000EUR in total, and will be for a duration of one year. Reapplications will be evaluated based on the achievements of the previous years. Grant recipients will be expected to contribute to the dissemination of knowledge in French Guiana, via participation in outreach programs of the collaborating Nouragues Natural Reserve.

In 2014, experimental projects will be especially considered.

Deadline for application: March 7th, 2014.

For further information: http://-www.nouragues.cnrs.fr/spip.php?breve22 < http://-www.labex-ceba.fr/en/appel-a-projets-annuel-ceba/ >

Thanks in advance,

Best regard,

Amaia Iribar

CEBA-Scientific project manager

EDB-Laboratoire Evolution et Diversité Biologique UMR 5174 Université Paul Sabatier Toulouse III 118 route de Narbonne 31062 Toulouse

Amaia Iribar-Pelozuelo <amaya.pelozuelo@univ-tlse3.fr>

FutureOfEvoDevo workshop report

To All Our EvoDevo Colleagues,

We are writing to give you an update on the outcomes of the ???Future of EvoDevo??? workshop that took place from 10th-13th of December 2013 at NESCent < http://www.nescent.org > in Durham, North Carolina. A detailed report will be circulated in the near future, but in the meantime, here is a brief update:

- Cassandra Extavour < http://-www.extavourlab.com/index.html > and Allen Rodrigo < http://fds.duke.edu/db/aas/Biology/agr13 > organized a National Science Foundation (NSF) sponsored workshop (grant number DBI-1249112 < http:/-/www.nsf.gov/awardsearch/showAward?AWD_ID=-1249112 >), and circulated a community interest survey to over 400 scientists interested in Evo-Devo, as well as to the EvolDir, US EvoDevo and European EvoDevo (jiscmail) lists. After receiving nearly 400 responses from scientists interested in attending, Cassandra, Allen and the organizing committee (Ehab Abouheif < http://biology.mcgill.ca/faculty/abouheif/ >, Pamela Diggle < http://spot.colorado.edu/ ˜ diggle/-Diggle_Lab/Diggle_Lab_Homepage.html >, Brian Hall < http://biology.dal.ca/People/faculty/hall/hall.htm >, Manfred Laubichler < https://sols.asu.edu/-people/manfred-laubichler >, Armin Moczek < http://sites.bio.indiana.edu/ ˜ moczeklab/ >, Karen Sears < http://www.life.illinois.edu/sears/ >, Chelsea Specht < http://pmb.berkeley.edu/profile/cspecht >, Angelika Stollewerk < http://www.sbcs.qmul.ac.uk/-staff/angelikastollewerk.html >, Trisha Wittkopp < http://www.umich.edu/˜pwlab/ >) invited 25 participants representing the broad range backgrounds within the EvoDevo community. Participants[1] came from the USA, Canada, Brazil, Germany, Israel, and the UK. Program officers from the Division of Integrative Organismal Systems < http://www.nsf.gov/div/-index.jsp?div=IOS > of the NSF Steve Klein, Amy Litt, and Anthea Letsou were also in attendance. Although the NSF grant could support physical attendance of only ˜30 participants, an online portal < http://evodevo.ning.com/ > was set up so that anyone interested in participating could follow and/or participate virtually, both in the general discussions and in the breakout discussions.

- The major goal of the workshop as stated in the meeting proposal < http://www.nsf.gov/awardsearch/-showAward?AWD_ID=1249112 > was to address and identify the major needs and concerns of the Evo-Devo community, as follows: (1) to define the principal intellectual goals and biological questions of Evo-Devo, as it looks to the future; (2) to identify the next generation of resources and infrastructure necessary to ensure the ongoing success of Evo- Devo research, and propose mechanisms to develop and obtain these resources; (3) to identify the major gaps in Evo-Devo training and education nationally and internationally, and propose solutions to address these gaps.

- There were three major outcomes of this meeting:

(1) Meeting participants strongly supported the establishment of a new professional society, provisionally named the ???Society of Evolutionary Developmental Biology.??? Ehab Abouheif (McGill University), and Karen Sears (University of Illinois at Urbana- Champain) volunteered to serve as interim-President and interim- Vice President, respectively. This society is meant to serve the needs of the EvoDevo community in the USA, Canada, Central and South America, and to link these communities with the European and other international communities by interfacing with the thriving European Society for Evolutionary Developmental Biology < http://evodevo.eu/ >. Our first goal as a society is to put up a website to give us a virtual home to co-ordinate among all the EvoDevo activities and opportunities (Research, Education,

— / —

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

GeorgeWashingtonU REU DrosophilaRNAi

The lab of Dr. Mollie Manier at the George Washington University in Washington, D.C. is looking for a mature, motivated undergraduate for NSF REU (Research Experience for Undergraduates) research in performing RNAi knockdown of potential spermatogenesis genes in Drosophila melanogaster. The successful candidate will participate in the Harlan Summer Research Experience program in the Department of Biological Sciences, which includes a week-long intensive introduction to research techniques and concepts, biweekly seminars/workshops, interaction with other undergraduates participating in diverse research experiences, and a poster session. The student will work with a technician and postdoc and be trained and gain experience in many to all of the following skills: rearing, maintaining and handling Drosophila stocks; collecting virgins and setting up mating crosses; dissecting testes; preparing

and staining sperm slides; microscopy and use of camera software to measure sperm and sperm heads; data collection, export and management; generating graphs and performing basic statistics in the software package R; designing and executing an experiment; primer design; DNA and RNA extraction; PCR and qPCR; handling sequence data, alignment and molecular evolutionary analysis; tree-thinking; designing a poster presentation; and verbally communicating results. The student will be on campus from May 19-Aug. 15 and will receive a summer stipend of $6000. Only US citizens or permanent residents who are fully enrolled in undergraduate institutions are eligible. Please send an official transcript, a one-page essay on what you seek to gain from an REU experience, and arrange for 2 letters of reference to Dr. Manier at manier@gwu.edu. Deadline for application is Feb. 21.

Dr. Mollie K. Manier Assistant Professor The George Washington University Dept. of Biological Sciences Lisner Hall 343 2023 G St. NW Washington, D.C. 20052 USA (202) 994-0126 http://departments.columbian.gwu.edu/biology/people/175 maniermk@gmail.com

Incomplete lineage sorting

Dear Evoldir members,

I looking for documentation addressing that if introgression (due to secondary contact or not) is part of the processes of incomplete lineage sorting or if it is different.

I can't be able to find documentation on this question.

Consequently, I wonder if anyone can give clues to find documentation or information.

Thanks by advance.

Best regards,

Pierre-Alexandre Rastorgueff

pierre-alexandre.rastorgueff@imbe.fr

MichiganStateU KBS SummerREU

The Michigan State University Kellogg Biological Station (KBS) is currently accepting applications for the *Summer 2014 Research Experience for Undergraduates (REU)* *Program*. KBS will be funding 8-10 REUs on projects related to Ecology, Evolutionary Biology, and Sustainable Agriculture.

The KBS REU program provides Free Room & Board, up to $400 in travel expenses, up to $500 in research funds, and a $4,500 stipend. The program runs 10-weeks from late May to early August. Applicants must be currently enrolled as a full time student. We especially welcome applications from students from underrepresented groups in the sciences and first generation college students.

Research projects for Summer 2014 include:

-Plant Eco-physiology -Restoration ecology -Mating system evolution -Using soil tests to survey farmer attitudes about soil health -Effects of genetic diversity on plants and insects -Algal adaptation to temperature and nutrients -The role of mutualisms in plant adaptation

For more information or to apply please visit: http://www.kbs.msu.edu/education/reu *Applications are due February 15th. *

About KBS: The Kellogg Biological Station is located in Southwest Michigan and is housed on the shores of beautiful Gull Lake. KBS is the academic home to 15 MSU professors with research expertise in Ecology, Evolution, and Sustainable Agriculture. KBS encompasses over 3,000 acres and includes the KBS Bird Sanctuary, KBS Long-term Ecological Research Site, Great Lakes Bioenergy Research Center, Experimental Pond Lab, Lux Arbor Reserve, KBS Farm and Pasture Dairy and the Kellogg Forest. Each summer over 30 undergraduates from across the country live in residence at KBS for courses, research and internships. For more information visit on facebook or www.kbs.msu.edu . Funding for the KBS REU program is provided by BEACON: An NSF Center for the Study of Evolution in Action (beaconcenter.org), The Great Lakes Bioenergy Research Center (www.glbrc.org), and the KBS Long Term Ecological Research Site (lter.kbs.msu.edu).

Michael A. Grillo, Ph.D. Academic Program Coordinator W.K. Kellogg Biological Station Michigan State University grillom1@msu.edu

Michael Grillo <grillom1@msu.edu>

MissouriBotanicalGarden REU opportunity

The Missouri Botanical Garden is currently recruiting students for a Research Experience for Undergraduates program (REU). This NSF-funded program provides full support for 10 students to work on mentored research projects for 10 weeks during the summer of 2014, from May 19 to July 25.

The MBG REU program focuses on the areas of plant systematics, conservation biology, and ethnobotany. Potential projects for this year include taxonomic description of new species of tropical aroids (Araceae), study of a cryptic species complex in Hypericum, DNA barcoding, pollen analysis and imaging, effects of climate change on threatened species, morphometrics of native Vitis species, edge effects on microclimate and vegetation, economically important Bolivian palms, fruit types and seed characters in Burmeistera (Campanulaceae), pollen characters and pollination syndromes in Anthurium, and population genetics of an endangered species of Polygala. REU students have access to a herbarium of 6.3 million specimens, an excellent botanical library, rich garden collections, a 2,400 acre natural area, and a laboratory with facilities for plant anatomy, microscopy, digital imaging, SEM, and DNA analysis. Students are expected to work full-time on research and participate in weekly lunch-time seminars and workshops, including subjects on botany, conservation, career development, ethics in research, writing, communication skills, and preparation for graduate school, and also participate in a final poster session and symposium.

Students receive lodging near the Garden, an allowance for food and research expenses, plus a $500/week stipend.

The deadline for application is March 30, 2014.

For more information and application procedures please see the program website at http://www.mobot.org/mobot/research/reu/reu.shtml or contact the REU Coordinator at reu@mobot.org , or the PI David Bogler (david.bogler@mobot.org).

David J. Bogler, PhD

Missouri Botanical Garden

P.O. Box 299, St. Louis, MO 63166-0299

Office: 314-577-0831 Email david.bogler@mobot.org

David Bogler <david.bogler@mobot.org>

MountainLakeBiologicalStation Fellowships 2014

Early-Career Fellowships, Mountain Lake Biological Station

The University of Virginia's Mountain Lake Biological Station (MLBS) is excited to offer a limited number of fellowships to cover residency and station use costs for researchers exploring new projects or collecting preliminary data. An Early Career Fellowship offers a rare opportunity to spend up to 2 months at MLBS, one of North America's premier field stations, at no cost to the researcher. MLBS welcomes researchers from any discipline that can benefit from the Station experience and facilities.Preference will be given to individuals and projects with the potential to develop into long-term research activities at the Station. We especially encourage applications from individuals in the postdoctoral or early faculty phases of their careers, but will not exclude other individuals from consideration.

Interested individuals should submit a single pdf file that includes a CV and 2-3 page outline of the proposed research to mlbs@virginia.edu. Review of proposals will begin March 14, 2014.For more information about the fellowship program, research opportunities, or MLBS, please visit our website: mlbs.org and contact the Director Dr. Butch Brodie at bbrodie@virginia.edu

bbrodie@virginia.edu

NSF undergrad travel awards

We are pleased to announce the PLANTS program, funded by the National Science Foundation and Botanical Society of America, which is designed to bring talented and diverse undergraduates to the BOTANY 2014 meeting on July 25-30, 2014 in Boise, Idaho.

The PLANTS program (Preparing Leaders and Nurturing Tomorrow's Scientists: Increasing the diversity of plant scientists) will fund up to 12 undergraduates from

throughout the US to attend the meeting, receive individual mentoring from graduate students, postdocs and faculty, and participate in networking events including the Diversity Luncheon and career-oriented activities. Topics range across all levels of botany and include talks on conservation, biodiversity, plant genomics, ecology, evolution, plant systematics, and botanical education. There are also a number of social functions, specifically targeted at students. The meetings are a great way to understand the breadth of botanical research and education, to meet undergraduate and graduate students with similar interests, and to network with professionals in your area of interest. Now in its fourth year, the program covers the normal costs of travel, registration, and food and accommodation at the meeting. An overview of the scientific conference is available at: www.botanyconference.org Application period: February 1 deadline March 15, 2014. Applications are welcome from all undergraduates who have interest in the plant sciences. Students will be selected so that as a group, they will help to diversify the pool of undergraduates who attend the meetings and are interested in continuing in botanical studies. The application form is located online at http://botany.org/awards_grants/-detail/PLANTS.php For further inquiries, please contact one of the organizers: Ann Sakai – aksakai@uci.edu Ann Hirsch – ahirsch@ucla.edu Heather Cacanindin – hcacanindin@botany.org

aksakai@uci.edu

New RAxML Citation

Dear Community,

When using RAxML please cite the following paper describing the current version from now on, if possible:

A. Stamatakis: "RAxML Version 8: A tool for Phylogenetic Analysis and Post-Analysis of Large Phylogenies". In Bioinformatics, 2014.

http://bioinformatics.oxfordjournals.org/content/-early/2014/02/07/bioinformatics.btu033 Thank you very much,

Alexis

– Alexandros (Alexis) Stamatakis

Research Group Leader, Heidelberg Institute for Theoretical Studies Full Professor, Dept. of Informatics, Karlsruhe Institute of Technology Adjunct Professor, Dept. of Ecology and Evolutionary Biology, University of Arizona at Tucson

www.exelixis-lab.org alexandros.stamatakis@gmail.com

Phylogenetics discussion forum

I have started an online forum for the discussion of phylogenetics theory and practice at http://-phylobabble.org/. Come join the conversation!

Frederick "Erick" Matsen, Assistant Member Fred Hutchinson Cancer Research Center http://-matsen.fhcrc.org/ ematsen@gmail.com

Phyloseminar KarenCranston Feb6

The next phyloseminar is within a week!

Karen Cranston National Evolutionary Synthesis Center Technical and social challenges of synthesizing phylogenetic data across the tree of life Thursday, February 6, 2014 10:00 AM PST

Open Tree of Life aims to synthesize published phylogenetic data into a comprehensive tree of life. The challenges associated with the collection, curation and synthesis of both phylogenetic and taxonomic input data are both technical and social. We present the first draft of the Open Tree of Life, as well as the workflow and software tools for curating, annotating and viewing phylogenetic data. In a subsequent phyloseminar, Stephen Smith will present details of the phylogenetic synthesis methods.

Frederick "Erick" Matsen, Assistant Member Fred Hutchinson Cancer Research Center http://-matsen.fhcrc.org/ ematsen@gmail.com

Phyloseminar StephenSmith Feb13

Exploring graphs for mapping and synthesizing phylo-

genies Stephen Smith (University of Michigan) Thursday, February 13, 2014 10:00 AM PST

The emergence of graph databases has presented a potential alternative for ways of storing and querying phylogenetic trees. The Open Tree of Life has been exploring these options and ways that trees from multiple datasets or within a single dataset can be placed in a graph database. I will go over some of the ways that we do this and how we can query and synthesize trees as an alternative to supertrees and consensus trees. While still a work in progress, these methods show great promise for further development.

As usual, details at http://phyloseminar.org/ . Frederick "Erick" Matsen, Assistant Member Fred Hutchinson Cancer Research Center http://matsen.fhcrc.org/ ematsen@gmail.com

PlantEvolution Symposia funding

Funding of up to £43k is available to run symposia with slots available from 2016 onwards. Application deadline is 28th February 2014.

The internationally renowned series of New Phytologist Symposia (NPS) aim to support emerging and key areas of research. Usually these meetings would be expected to extend over one to three days, with invited speakers and a maximum of 120 delegates. In this way we hope to provide an informal atmosphere for the stimulation and exchange of ideas and the building of collaborations. We particularly encourage the involvement of early-phase career scientists and as such a number of travel grants will be awarded in association with each meeting.

New Phytologist highlights the importance of plant evolution by dedicating one of its four key sections to this research area, covering studies from the molecular to ecological level. A number of recent symposia have covered evolution topics. Details of past and upcoming symposia can be found here: www.newphytologist.org/symposia If you are interested in organising a New Phytologist Symposium, please complete the proposal pro forma (http://www.newphytologist.org/app/webroot/-img/upload/files/NPSproposal_proforma2013.docx) and email this to the Managing Editor (npmanaginged@lancaster.ac.uk) by the end of February. Feel free to get in touch with any queries or for guidance on completing the proposal.

We also welcome workshop proposals throughout the year and there is no set deadline for these; we can support workshops scheduled from 2015 onwards. Further details here: http://www.newphytologist.org/-workshops .

Dr MICHAEL PANAGOPULOS Development Coordinator, New Phytologist

New Phytologist Central Office, Bailrigg House, Lancaster University, Lancaster, LA1 4YE, UK Tel: + 44 1524 592124 Fax: + 44 1524 594696 Email: m.panagopulos@lancaster.ac.uk Website: www.newphytologist.org Twitter: @NewPhyt Facebook: fb.com/NewPhytologist

The New Phytologist Trust, registered charity number 1154867

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Virtual Special Issue to mark the 200th volume of New Phytologist http://newphytologist.org/-200VSI New Phytologist Symposia 2014 Mycorrhizal symbioses - CAM plants - Next generation scientists http://www.newphytologist.org/symposia m.panagopulos@lancaster.ac.uk

Project EvoMap

Dear EvolDir list members,

I would like to draw your attention to ProjectEvoMap < http://www.projectevomap.yolasite.com >- a project started a little over a year ago in an attempt to visually display, and raise awareness of, evolution research groups around the world. To date it has received over 320 entries representing more than 400 research groups.

I have sent this email to; A. Encourage new additions to the map, and B. Offer the opportunity to edit existing entries. You can access forms for both of these purposes on the website (www.projectevomap.yolasite.com).

Thank you for taking part in ProjectEvoMap,

Robert M. Griffin

PhD Candidate Evolutionary Biology Centre, Uppsala University

projectevomap@live.co.uk

RobertsCompany

On June 16, Roberts and Company will introduce the second edition of Whitlock and Schluter's The Analysis of Biological Data. If you currently use the book or are considering adopting it, please fill out our exam copy form so we may send you a copy of the new edition. If you do not teach a dedicated biostatistics class but would like the book for reference purposes, until May 1 we can offer you an instructor's academic discount of approximately 50% off the list price (of $123.75). You can purchase the book directly from our site for $60.00, plus $5 for shipping to anywhere in the USA. (Canadian customers will be charged $9.50 for shipping and $5 for tax.) Please reply to this email for a coupon code.

If you teach a majors evolution class and own and iPad, we would be delighted to give you access to Carl Zimmer and Doug Emlen's iPad app. After nearly a year of use, we can now say unequivocally that students really appreciate the app's added interactivity, especially the additional quiz questions that appear after every section. The app and/or the printed textbook has now been adopted at about 300 schools, including Cornell, Georgia Tech, Harvard, Princeton, University of British Columbia, University of California (at Berkeley, Los Angeles, San Diego, and Santa Barbara), University of Georgia, University of Texas, and a wide variety of other colleges and universities. If you teach a majors evolution class and would like a desk copy, please fill out our exam copy form.

A little known fact: Choice, a leading magazine for academic book reviews, named the first edition of Carl Zimmer's The Tangled Bank: An Introduction to Evolution one of its outstanding academic titles. This award was based on "excellence in scholarship and presentation (and) the significance of (the) contribution to the field." The second edition is also receiving great reviews, in part because of its updated coverage and new chapter on human evolution. Until May 1, we're pleased to offer an instructor's academic discount of 50% off the list price (of $80.00). You can purchase the book directly from our site for $40.00, plus $5 for shipping to anywhere in the USA. (Canadian customers will be charged $9.50 for shipping and $5 for tax.) Please reply to this email for a coupon code.

Finally, on June 16, we'll be publishing Rees Kassen's Experimental Evolution and the Nature of Biodiversity. The book explores how diversity evolves in microbial populations that occupy some of the simplest environments imaginable laboratory test tubes. The book is not available as a gratis desk copy, however, until May 1, we can offer you an instructor's academic discount of 40% off the list price (of $45.00). You can purchase the book directly from our site for $27.00, plus $5 for shipping to anywhere in the USA. (Canadian customers will be charged $9.50 for shipping and $5 for tax.) Please reply to this email for a coupon code.

That's it for now. I'm very excited about these new titles; I hope you are, too. For those of you attending the evolution meeting in Raleigh or the ecology meeting in Sacramento, I hope you will stop by our exhibit to browse through our books.

All the best,

Ben Roberts

info@roberts-publishers.com info@roberts-publishers.com

SSB GraduateStudent ResearchAward

SSB Graduate Student Research Award

The Society of Systematic Biologists (SSB) announces the 2014 annual Graduate Student Research Award competition. The proposal deadline this year is MARCH 31, 2014. The purpose of these awards is to assist students in the initiation (FIRST TWO YEARS) of their systematics projects and in the collection of preliminary data to pursue additional sources of support (e.g., Doctoral Dissertation Improvement Grants from the National Science Foundation) or to enhance dissertation research (e.g., by visiting additional field collection sites or museums). Applicants may be from any country, but MUST be members of SSB, and are advised to join the Society as soon as possible to facilitate their applications (to join go to: http://systbio.org/-?q=node/6). Previous awardees may not re-apply, but previous applicants who were not selected for funding are encouraged to re-apply. Awards range between $1,200 - $2000 and approximately 10-15 awards will be made.

How to Apply: applicants must submit

1. a curriculum vitae (maximum one page); 2. brief

research proposal including objectives, methods, significance, and schedule (maximum of three single-spaced pages including literature cited and any figures and tables); 3. budget and budget justification (maximum one page); 4. and arrange for two reference letters; one letter must be from the student's current graduate advisor.

All application materials must be in electronic format. Applicants and those writing reference letters are required to use pdf format to minimize difficulties in file transfer. Applicants should send all materials (except reference letters) in a SINGLE pdf file. Letters of reference should be sent separately by the referees in pdf format or in the text of an e-mail; please include the FULL NAME OF APPLICANT in reference letters.

Please email all application materials and queries to Sean Brady, Chair of the SSB Awards Committee at bradys@si.edu. IN THE SUBJECT LINE OF THE E-MAIL, PLEASE INDICATE "Student Research" FOLLOWED BY FIRST INITIAL AND LAST NAME.

To be considered for this year's award, ALL application materials, INCLUDING letters of recommendation, must be received electronically no later than March 31, 2014. Please see the SSB website (http://-systbio.org/?q=node/22) for additional details of this award. Questions via email may be addressed to Sean Brady (bradys@si.edu).

PROPOSAL SUBMISSION DEADLINE IS MARCH 31, 2014

Sean Brady Chair, Department of Entomology Curator of Hymenoptera National Museum of Natural History Smithsonian Institution bradys@si.edu 202–633-0997

"Brady, Sean" <BRADYS@si.edu>

SSB MiniARTS grant

SSB Mini-ARTS grant

The Society of Systematic Biologists (SSB) is pleased to announce the availability of awards for revisionary taxonomy and systematics, modeled after the NSF Dear Colleague Letter: Advancing Revisionary Taxonomy and Systematics (ARTS) recently developed within the Systematics and Biodiversity Science Cluster. We are calling these mini-ARTS grants. These awards are designed to allow SSB members (students, post-docs, and faculty) to spend a summer or semester apprenticed to an expert in a particular taxonomic group or to enhance revisionary taxonomic and systematics research in novel ways. Goals of this award program are to address constraints on our knowledge of undescribed biodiversity, assist in passing on taxonomic expertise before it is lost, increase the number of students with broad training in organismal biology and systematics, and support projects in biodiversity and taxonomy informatics as well as monographic and revisionary taxonomy. Activities can include a trip to the taxonomists laboratory, pay for the taxonomist to visit the applicants laboratory for a period of time, or pay for costs of computer time or development of interactive keys for electronic dissemination of systematics results. Please visit NSFs website http://www.nsf.gov/-pubs/2011/nsf11037/nsf11037.jsp for more information about their ARTS program.

Requests for support may be in any amount up to $3,000. We will fund 1-3 of these awards this year.

How to apply V a complete application includes: 1) a brief description of the project, including a separate section justifying the importance of the taxon and the revisionary work; 2) an itemized budget; 3) the applicants curriculum vitae; and 4) a letter of support from the taxonomic expert or collaborator. If the applicant is a student or post-doc, please also include a reference letter from the advisor. Applicants may be from any country, but MUST be members of SSB, and are advised to join the Society as soon as possible to facilitate their applications (to join go to: http://systbio.org/?q=node/-6). The narrative part of the application should be NO MORE THAN TWO PAGES, INCLUDING THE BUDGET, but not including the curriculum vitae and letter(s).

Grant applications should be sent to Sean Brady, Chair of the SSB Awards Committee (bradys@si.edu). E-mail submissions are required, and applicants should use pdf format for all documents. In the subject line of the email, please indicate the SSB award category as mini-ARTS. All documents, INCLUDING ALL SUPPORTING LETTERS, MUST be received by March 31, 2014 for consideration.

Please see the SSB website (http://systbio.org/?q=-node/26) for any updates or additional information about this award.

PROPOSAL SUBMISSION DEADLINE, INCLUDING ALL LETTERS OF SUPPORT/RECOMMENDATION, IS MARCH 31, 2014

Sean Brady Chair, Department of Entomology Curator of Hymenoptera National Museum of Natural History

Smithsonian Institution bradys@si.edu 202-633-0997

"Brady, Sean" <BRADYS@si.edu>

SSE THHuxley Award Announcement

The SSE Education Committee is pleased to announce the T. H. Huxley award, named in honor of Darwin's very public supporter, which provides funding for an SSE member to present at the National Association of Biology Teachers (http://www.nabt.org/) annual conference. If you have an interesting project or educational activity to share with high school, community college or undergraduate faculty, consider applying for this award. Graduate students and postdoctoral fellows are encouraged to apply.

This year's conference will be held Nov 12-15 in Cleveland, OH. The deadline for applying for the Huxley award is March 7. Apply here:

http://tinyurl.com/kzy8uvw

Sincerely,

Louise Mead and Kristin Jenkins

on behalf of the SSE Education Committee

kristinperth@gmail.com

Software LargeScale BayesianTreeInference

Dear evoldir members,

we introduce ExaBayes, a user-friendly software package for large-scale Bayesian tree inference. ExaBayes provides the most widely used evolutionary models and implements proposals similar to (and as efficient as) MrBayes.

ExaBayes allows for efficient parallel analyses on any multi-core machine (only prerequisite: MPI). The focus of ExaBayes lies on scalability: we managed to compute a tree from a genome-size alignment (200 taxa, 2*10E8 characters) using up to 32,000 CPU cores. Furthermore, we successfully tested our code on alignments with up to 10,000 partitions.

For further information, please visit : http://exelixis-lab.org/web/software/exabayes/ Best regards, Andre Aberer

PreDoc (Bioinformatics) in the Exelixis Lab, Heidelberg Institute for Theoretical Studies

andre.aberer@googlemail.com

Software NeEstimator 2 01

An update is available to the NeEstimator software (see below for publication announcing availability of software).

Version 2.01 has minor improvements to the user interface and improvements to running the software in back (command-line) mode. Version 2.01 also restricts the number of loci used for calculating the jacknifed confidence intervals in datasets where there are large numbers of loci (e.g. SNPs). This helps with computation efficiency and avoids violation of the assumption of physical non-linkage of loci.

The new version can be downloaded from http://-/molecularfishieslaboratory.com.au/downloadables . Best, Jenny Ovenden (on behalf of the NeEstimator development team).

Author: Do, C., Waples, R. S., Peel, D., Macbeth, G. M., Tillett, B. J. and Ovenden, J. R.

Year: 2014

Title: NeEstimator v2: re-implementation of software for the estimation of contemporary effective population size (N) from genetic data

Journal: Mol Ecol Resour

Volume: 14

Issue: 1

Pages: 209-14

Short Title: NeEstimator v2: re-implementation of software for the estimation of contemporary effective population size (N) from genetic data

Alternate Journal: Molecular ecology resources

ISSN: 1755-0998 (Electronic)

Abstract: NeEstimator v2 is a completely revised and updated implementation of software that produces estimates of contemporary effective population size, using several different methods and a single input file.

NeEstimator v2 includes three single-sample estimators (updated versions of the linkage disequilibrium and heterozygote-excess methods, and a new method based on molecular coancestry), as well as the two-sample (moment-based temporal) method. New features include the following: (i) an improved method for accounting for missing data; (ii) options for screening out rare alleles; (iii) confidence intervals for all methods; (iv) the ability to analyse data sets with large numbers of genetic markers (10 000 or more); (v) options for batch processing large numbers of different data sets, which will facilitate cross-method comparisons using simulated data; and (vi) correction for temporal estimates when individuals sampled are not removed from the population (Plan I sampling). The user is given considerable control over input data and composition, and format of output files. The freely available software has a new JAVA interface and runs under MacOS, Linux and Windows.

** New UQ email address** j.ovenden@uq.edu.au

Jennifer Ovenden http://-molecularfisherieslaboratory.com.au http://-www.uq.edu.au/sbms/staff/jennifer-ovenden j.ovenden@uq.edu.au

Survey BiodiversityConservation

Dear colleague,

Please fill out our online survey to assess landscapes for ecological and evolutionary processes contributing to biodiversity conservation. The survey shows you 15 simple habitat patterns and asks you to rank their conservation value according to a criterion of your choice, for a type of organism or biodiversity that you know well, at particular spatial scales.

Follow this link to see the survey and take part if you can:

http://scales.ckff.si/scaletool/cn_survey.php We'll use the results to compare expert assessments with outputs from simulation models. This is an important part of validating the models, as well as looking at agreement among experts. The findings should ultimately feed in to policy advice.

Thanks in advance for your help,

Richard Gunton and Dirk Schmeller. The SCALES project (www.scales-project.net)

Richard Gunton <R.M.Gunton@leeds.ac.uk>

TreeOfLife iPhone app

An iPhone App for exploring a family-level Tree of Life that I've been working on for over 2 years is finally available at the AppStore. You can Download a free version here:

https://itunes.apple.com/co/app/id771536454 A "pro" version allowing access to further content is also available here:

https://itunes.apple.com/CO/app/id821256110 If you have some time to test the App, IÂd love to have some feedback from you (I suggest you explore the Vertebrate tree, which is the largest sub-tree in the App at the moment).

Best regards,

Andrés

andres_delrisco@hotmail.com andres_delrisco@hotmail.com

UMaryland SummerREU AmphibianDiseaseEvolution

Subject of posting: REU Summer 2014 Amphibian Disease Ecology

Hi,

Job Description: Two undergraduate students will be selected to participate in an 8-week amphibian disease ecology study at the University of Maryland. Batrachochytrium dendrobatidis (Bd), the amphibian-killing fungus, is one of the leading causes of amphibian declines and extirpations throughout Central America. Harlequin frogs (genus: Atelopus) are among the first amphibians to disappear when Bd arrives at a site and work in our lab has shown that these frogs may play a disproportionate role in disease spread and/or transmission in the wild. However, we know relatively little about Bd infection intensity patterns at different temperatures or on different life stages of Atelopus. We'd like to work with you to answer these and other questions related to frog-fungal interactions of differ-

ent species. Members of underrepresented groups are encouraged to apply.

Qualifications:

* Positive attitude, enthusiasm, interest in amphibian disease ecology

* Interest in learning new skills and information

o Husbandry o Standard infection techniques o Data collection, entry, and analysis o How to formulate and execute an independent project

How to apply: Check out the Lips Lab website for the application and more information (https://-sites.google.com/site/umdlipslab/). Applicants should be US citizens and enrolled at an accredited university or college (undergraduates only). Students from underrepresented backgrounds in the sciences are highly encouraged to apply.

Salary: $2,777.60 for 8 weeks (16 June - 15 August 2014) A housing stipend of $1,000 is also provided. Deadline: 01 March 2014

Thank you, Grace

Graziella Vittoria Direnzo <gdirenzo@umd.edu>

UTexas ElPaso REU Biodiversity

REU Opportunity Summer 2014: "Research Experience for Undergraduates in Chihuahuan Desert Biodiversity"

The University of Texas at El Paso (UTEP) Department of Biological Sciences invites applicants for the NSF sponsored Research Experience for Undergraduates (REU) in Chihuahuan Desert Biodiversity. This is a 10 week summer program. The goal of this program is to provide undergraduate students with experience in hypothesis-driven collaborative research utilizing field based and/or laboratory methods and fully engage students in projects associated with the ecology and evolution influencing Chihuahuan Desert biodiversity.

THE PROGRAM PROVIDES: - High quality research experience in ecology and evolutionary biology in the field and/or lab - Research opportunities at the Indio Mountains Research Station (IMRS), a 40,000 acre facility controlled by UTEP - One-on-one and group mentoring from active research faculty in multidisciplinary fields - Training in bioethics and other relevant professional skills

THE PROGRAM INCLUDES: - $5,000 stipend for 10 weeks - Housing in shared apartment and field station - Travel reimbursement of up to $600

For more information on the program, research projects or to apply please visit: http://science.utep.edu/cdb-reu/ email: (cdb-reu@utep.edu)

mlmoody@utep.edu

UZurich FieldAssist BirdBehaviourSpain

UZurich.FieldAssitant.Birds_behaviour_Spain

Field assistant position to study mobbing behaviour in birds, in southern Spain (Córdoba & Guadix).

For the upcoming field season (15th April - June 2014) I am are looking for a highly motivated field volunteer to join my field project investigating mobbing behaviour in birds. The study site is located in Guadix and Córdoba, south of Spain.

We will work in average 6 days per week in the field depending on the workload of the experiments. The field work can be physically strenuous at times as temperatures in June can be above 35ºC.

This project is part of a larger project ongoing since 2010 to understand the evolution of family living in birds. Thus, we closely collaborate with two other research teams, sharing both the study sites and the field station.

Qualifications: (1) BSc/MSc in Biology, Ecology or similar qualification; (2) Able to cope with "strenuous" conditions in the field (we work in a semi-arid area); (3) Ability to work in team and independently; (4) Motivated to learn about birds, and animal behaviour; (5) Knowledge in observing & handling birds is a plus; (6) Driving licence is a plus; (7) Fluent in English and/or Spanish or Portuguese; (8) Previous knowledge of experimental fieldwork is an advantage.

We will cover for the accommodation and the food as well as travel costs up to 300 Euros.

Applications - including a CV, a letter of motivation (1 page) and names of 2 referees - should be send to Filipe Cristovão: filipe.cunha@uzh.ch.

Applications received until 3rd March 2014 will be given full consideration.

filipe.cunha@uzh.ch

WildType Drosophila Stocks

Dear EvolDir members

I am looking for outbred wild type lab-adapted Drosophila melanogaster stocks. They should preferably have been collected in South America or Asia. I need stocks that haven't been started from isofemale lines, but from a minimum of 100 females and kept as a large population.

Hope some of you can help me.

Kind regards Katrine Lund-Hansen k.lund-hansen@sussex.ac.uk Twitter: @KLundHansen

Katrine Lund-Hansen <K.Lund-Hansen@sussex.ac.uk>

microMORPH TrainingGrants

Dear Colleagues,

The microMORPH RCN is pleased to announce a funding opportunity for graduate students, postdoctorals, and assistant professors in plant development or plant evolution. Grants of up to $3,500 are available to support cross-disciplinary visits between labs or institutions for a period of a few weeks to an entire semester. We are particularly interested in proposals that will add a developmental perspective to a study of the evolution of populations or closely related species. We are also interested in developmental studies that will incorporate the evolution of populations or closely related species. The deadline for proposals is March 31, 2014. More information about the training grants and the application process may be found on the microMORPH website:

http://www.colorado.edu/eeb/microMORPH/-grantsandfunding.html To be eligible for microMORPH training grants, applicants must meet one or more of the following criteria: 1) be a U.S. citizen, or 2) be affiliated with (enrolled in a degree granting program or employed by) a U.S. college, university, or institution, or 3) propose to train in and be hosted by a lab at a U.S. college, university, or institution.

These grants are supported by a five-year grant from the National Science Foundation entitled microMORPH: Molecular and Organismic Research in Plant History. This grant is funded through the Research Coordination Network Program at NSF. The overarching goal of the microMORPH RCN is to study the diversification of plants by linking genes through development to morphology, and ultimately to adaptation and fitness, within the dynamic context of natural populations and closely related species.

Dear Colleagues,

The microMORPH RCN is pleased to announce a funding opportunity for undergraduates in plant evolution and development. These $5,000 grants are available to support cross-disciplinary training and interaction through visits between labs or institutions (including botanical gardens). We are particularly interested in proposals that will add a developmental perspective to a study of the evolution of populations or closely related species. We are also interested in developmental studies that will incorporate the evolution of populations or closely related species. The deadline for proposals is March 31, 2014. More information about the training grants and the application process may be found on the microMORPH website:

http://www.colorado.edu/eeb/microMORPH/-grantsandfunding.html To be eligible for microMORPH training grants, applicants must meet one or more of the following criteria: 1) be a U.S. citizen, or 2) be affiliated with (enrolled in a degree granting program or employed by) a U.S. college, university, or institution, or 3) propose to train in and be hosted by a lab at a U.S. college, university, or institution.

These internships are supported by a five-year grant from the National Science Foundation entitled microMORPH: Molecular and Organismic Research in Plant History. This grant is funded through the Research Coordination Network Program at NSF. The overarching goal of the microMORPH RCN is to study the diversification of plants by linking genes through development to morphology, and ultimately to adaptation and fitness, within the dynamic context of natural populations and closely related species.

Best wishes, Pam Diggle

Pamela Diggle

Professor Department of Ecology and Evolutionary Biology University of Connecticut

PostDocs

AarhusU PopulationGenetics

1-year Postdoc position in population genetics at the Centre for Biocultural History, Aarhus University, Denmark

The Bioinformatics Research Center, Aarhus University invites applications for a 1-year postdoc in population genetics at the new interdisciplinary Centre for Biocultural History. The project will focus on demographic inference and data-mining in population-wide genetic data concerning relationships within and between parts of Denmark and explore whether human movement such as urbanization is visible from genetic data. We are seeking a candidate with excellent skills in (1) population genetics and data mining, and (2) a strong interest in human evolutionary studies. The project is based on genome-wide SNP data from 800 Danish high school students combined with data on family origin and background, but the candidate is encouraged to develop specific projects of her or his own choice as long as they are include mining this data and are conducted in collaboration with other members of the group.

The postdoc will be a member of the newly established Centre for Biocultural History, a highly interdisciplinary team seeking anthropological, archaeological, genomic, ecological, and historical insights into human evolution.. The project will be supervised primarily

by Associate Professor Thomas Mailund (Bioinformatics Research Centre) and Prof. Mikkel Heide Schierup (Bioinformatics Research Centre), together with Prof. Peter C. Kjærgaard (Department of Culture and Society). The candidate will join researchers at the Bioinformatics Research Center and collaborate closely with the other members at the Centre for Biocultural History.

Candidates should have obtained a university degree in genetics or other related fields. The successful candidate must document a strong research record as well as a broad knowledge of the field of population genetics.

For more information please contact Associate Professor Thomas Mailund (mailund@birc.au.dk) or Professor Mikkel H. Schierup (mheide@birc.au.dk). For information about the Centre for Biocultural History see bioculture.au.dk or contact Professor Peter C. Kjaergaard (Kjaergaard@cas.au.dk), and for the Bioinformatics Research Centre see birc.au.dk

Please submit application including CV and letters from or names of at least two references to Mikkel H. Schierup (mheide@birc.au.dk) as a single pdf file

Deadline for applications: 15 March 2014

Mikkel H. Schierup Bioinformatics Research Center, Aarhus University, CF Mollers Alle Building 1110, 8000 Aarhus C Denmark Ph: +45 8715 6535 Email: mheide@birc.au.dk http://www.birc.au.dk/ ˜ mheide Mikkel Heide Schierup <mheide@birc.au.dk>

BangorU SnakeVenomEvolution

Research Officer Bangor University -School Of Biological Sciences

(Ref: BU00475)

Salary: Â£30,726 p.a. (on Grade 7)

We seek a highly motivated postdoctoral researcher for a two year, full-time post carrying out research on the evolution of rattlesnake venom. The project aims to investigate the intrinsic and extrinsic causes of variation in venom composition in the Mohave rattlesnake, investigating the genome-level mechanisms responsible for different venoms, and the interrelationships between venom variation, gene flow among populations, and dietary variation. The position is funded by a two-year Leverhulme Trust grant awarded to Dr Wolfgang Wüster in the School of Biological Sciences. The successful applicant will join an established team working on the evolution of snake venoms and their composition, embedded in the Molecular Ecology and Fisheries Genetics Laboratory (MEFGL - http://-mefgl.bangor.ac.uk/) in the modern Environment Centre Wales Building.

Duties will include responsibility for the day-to-day running of the project, data acquisition and analysis, and playing a leading role in the publication of the results.

Candidates should be educated to PhD standard and have previous experience of relevant molecular genetics techniques.

The interviews will be held on the 20th March and the successful candidate will be expected to commence on 1 May 2014 or as soon as possible thereafter.

Applications will only be accepted via our on-line recruitment website, please click the APPLY button below. However, in cases of access issues due to disability, paper application forms are available by telephoning 01248 383865.

Closing date for applications: Friday 14 March 2014.

Informal enquiries can be made by contacting Dr Wolfgang Wüster, e-mail: w.wuster@bangor.ac.uk, tel: (01248) 382301.

Dr. Wolfgang Wüster - Senior Lecturer School of Biological Sciences Bangor University Environment Centre Wales Bangor LL57 2UW Wales, UK

Tel: +44 1248 382301 Fax: +44 1248 382569 E-mail: w.wuster@bangor.ac.uk http://mefgl.bangor.ac.uk/-wuster.php Rhif Elusen Gofrestredig 1141565 - Registered Charity No. 1141565

Wolfgang Wuster <w.wuster@bangor.ac.uk>

Beijing 2 HighAltitudeAdaptation

Two Post-doctoral Positions in studying genome based high-altitude adaptation and phenotype plasticity of high plateau birds

Two postdoctoral positions are available beginning at 2014 to work on the mechanistic and genetic basis of hypoxia resistance in high altitude (e.g. Tibetan Plateau), at Ornithological Research Group, the Institute of Zoology, Chinese Academy of Sciences, under the direction of Professor Fumin Lei and cooperate with Prof.

Yanhua Qu, Prof. Yong Zhang and BGI. We are looking for two postdocs preferentially with research background in bioinfortatics, gene expression or NGS techniques such assequence capture and RAD-Seq to population genomics studies of hemoglobin and other genes in pathways involved with responses to hypoxia.

The anticipated duration of the positions are generally two years with a starting salary of $RMB 60,000 to (depending on research experience and archievments).

Review of applications will begin Feburary 2014.

Individuals applying for these positions should submit (1) your CV, (2) your 2 page proposal, (3) a brief cover letter with a statement of background and research interests and (4) names and contacts for three references.

Please email to Prof. Yanhua Qu (quyh@ioz.ac.cn) for your application.

leifm <leifm@ioz.ac.cn>

BrighamYoungU SystematicHerpetology

Postdoctoral Research Associate in Systematic Herpetology/Evolutionary Biology, Brigham Young University, Utah

A postdoctoral position is available in the Department of Biology, Brigham Young University, in the lab of Dr. Jack W. Sites, Jr. The Sites lab is part of a large multi-national NSF-funded project focused in part on climate-forced extinctions in lizards, and the successful candidate will play a key role in the generation and analysis of phylogenetic data for several clades of lizards distributed from Mexico through much of Central and South America. This person will interface with an extensive network of collaborators from several countries who are integral to the success of this multi-institutional project.

The successful candidate will play a key role in the generation and analysis of phylogenetic/phylogeographic data, specifically to: 1) help to organize and participate in herpetological collecting expeditions to South America, 2) carry out laboratory and analytical portions of phylogeographic and phylogenetic studies of selected lizard groups, and 3) mentor graduate and undergraduate students working on the project, as well as visiting faculty and students from collaborating institutions. The position is 100% research time and is funded for up to three years, pending successful performance in year one. The successful candidate must have completed her/his doctoral degree before taking up the position and must have experience in the following areas: (1) molecular phylogenetic laboratory techniques/DNA sequencing, (2) current analytical techniques and relevant software for use in phylogenetic/phylogeographic/population level analyses, and (3) knowledge of and research experience with some of the South American lizard fauna, including international collecting and permitting experience in one or more Latin American countries. Knowledge of ecophysiology, remote-sensing, or GIS is desirable but not necessary.

Applications must include a complete CV, up to three relevant publications (pdf files), a cover letter briefly outlining the candidate's fit to the position and timeframe to start, and contact information for three references, preferably including doctoral advisor and/or postdoctoral advisor (if relevant). All information may be sent directly to Dr. Jack W. Sites, Jr. at jack_sites@byu.edu. Review of applications will begin in early March 2014, but the search will remain open until the position is filled. The position may be taken up as early as 1 May 2014, but the start date is flexible.

Jack W. Sites, Jr. Maeser Professor of Biology and Curator of Herpetology Brigham Young University Provo, UT 84602 Phone: 801/422-2279 Fax: 801/422-0090 Email: jack_sites@byu.edu Lab: http://-siteslab.byu.edu/ Jack Sites <jack_sites@byu.edu>

CNRS VillefrancheSurMer Bioinformatics

The Tiozzo Lab (http://biodev.obs-vlfr.fr/ ~ tiozzo/-tiozzo-lab/index.html) is seeking a creative, skilled and highly motivated bioinformatician for one year contract as post-doc or high-level technician. We do require strong experience with RNAseq and whole genome sequence data. Applicants should be also proficient in programming (R, Python, Perl, Java), have knowledge in statistics and have analytical and computational skills proven by an excellent publication record or by reference letters. Familiarity with mathematical modeling would be a plus. Applicants should be proficient in English; French knowledge is preferable but not required.

The hired postdoctoral fellows/high-level technician will work at the Observatoire Oceanologique du Ville-

franche sur Mer (http://www.obs-vlfr.fr/)in a highly international environment.

Contact Stefano Tiozzo (tiozzo@obs-vlfr.fr) for more information, and to apply,please send a single PDF file that contains a cover letter, full C.V., and contact information for three references. Start: As soon as possible.

Stefano Tiozzo, PhD Regeneration Team Villefranche sur mer Developmental Biology Laboratory (VDBL) (UMR7009 CNRS/UPMC) Observatoire Océanologique de Villefranche-sur-Mer Ph:+33 4 93 76 39 78 Fax:+33 4 93 76 37 92 web: http://biodev.obs-vlfr.fr/fr/equipes_de_recherche/-regeneration_et_pluripotence.html tiozzo@obs-vlfr.fr

CornellU HumanPopulationGenomics

Postdoctoral positions in human population genomics and association studies

Two postdoctoral positions are available with Alon Keinan in the Department of Biological Statistics and Computational Biology at Cornell University. The Keinan lab studies how human genetic variation has arisen from evolutionary history and its role in common, complex disease risk. We develop computational and statistical methods in human population genomics and genome-wide association studies, and apply them to large-scale sequencing data. Current members of the lab have backgrounds in computer science, statistics, genetics, physics, and anthropology, which facilitates the collaborative development of methods and their genomic application. Research projects will be aligned with the interests of the successful candidate.

More information about the position can be found at http://keinanlab.cb.bscb.cornell.edu/sites/default/-files/ad_postdoc_206.pdf The ideal candidate will have a strong track record in either statistical genetics, population genomics, or human genetics, as well as strong programming and statistical skills, with a Ph.D. in statistics, computer science, mathematics, genetics, or a related field. The starting date is flexible and can be as early as March 2014. Applications will be accepted until the positions are filled. Competitive salaries commensurate with experience and skills, as well as a generous benefits package will be offered.

Relevant projects can be as part of the lab's ongoing NIH-funded collaboration with Uri Alon (Weizmann Institute), Eric Boerwinkle (University of Texas), Andrew Clark (Cornell), Eran Helperin (Tel Aviv & Berkeley) John Novembre (University of Chicago), and Yun Song (Berkeley).

Interested applicants should send a PDF with CV, a brief description of research interests and experience, and contact information for three references to the attention of Ms. Sue Bishop, administrative assistant (skp5@cornell.edu), indicating "position 206" in the subject line. Informal inquiries are also welcome.

Alon Keinan, PhD Robert N. Noyce Assistant Professor in Life Science and Technology Department of Biological Statistics & Computational Biology 102C Weill Hall | Cornell University | Ithaca, NY 14853 ak735@cornell.edu | 607-254-1328 phone | 607-255-2323 fax http://keinanlab.cb.bscb.cornell.edu/ | @AlonKeinan

< http://keinanlab.cb.bscb.cornell.edu/ >

alon.keinan@gmail.com

CzechRepublic FishParasiteCoevolution

POSTDOCTORAL RESEARCH POSITION FOR 24 MONTHS

TOPIC: Fish Parasitology - Host-parasite interactions in freshwater systems

EUROPEAN CENTER FOR ICHTHYOPARASITOLOGY INSTITUTE OF VERTEBRATE BIOLOGY, ACADEMY OF SCIENCES OF THE CZECH REPUBLIC

One full-time postdoctoral position for 2 years is available at the Institute of Vertebrate Biology, Czech Academy of Sciences, located in Brno, Czech Republic. Position will start when filled; all applications submitted until 28 February 2014 will be fully considered. Selected candidates will be interviewed by Skype.

Project will focus on field or laboratory experiments with freshwater fish and their parasites. We expect applications from candidates with strong background in Ecological Parasitology. There is flexibility in research topic and decision will be made on a combination of past professional experience (CV) and the quality of short proposal (one A4 page) outlining suggestions for research agenda.

Postdoctoral researcher will have access to field sites in a lowland floodplain (rivers, oxbows, borrow pits) in Central Europe and can work alongside researchers (mainly fish ecologists, but also fish parasitologists) on non-native riverine gobies (Neogobius, Proterorhinus), bitterling fish and Neotropical and African annual killifish. Our established fieldwork sites are mainly in Central Europe, but there is potential to conduct some research in China (Wuhan), southern Brazil/Uruguay or Western Turkey. For details on our research programme, see: http://www.ivb.cz/staff-ing-pavel-jurajda-dr.html (Pavel Jurajda) http://www.ivb.cz/staff-mgr-marketa-ondrackova-ph-d.html (Markéta OndraÄková) http://-www.reichardlab.eu/index.php (Martin Reichard)

For experimental work, access to accredited fish breeding facility and outdoor system of separate tanks is possible.

Work will be done within the framework of European Center for Ichthyoparasitology, funded by Czech Science Foundation. Salary is at a scale of advanced postdoctoral researcher 1.100 EUR per month. Note relatively low living expenses in the Czech Republic.

For informal enquires and more details, feel free to email Markéta OndraÄková (audrey@sci.muni.cz) or Martin Reichard (reichard@ivb.cz).

APPLICATION PROCEDURE For formal applications, please submit (1) your CV, (2) outline proposal (one A4 page, 11pt font) and (3) explain your previous work and motivation to apply for this position in your Cover Letter.

Email your application to Markéta OndraÄková (audrey@sci.muni.cz) and Martin Reichard (reichard@ivb.cz).

Dr Martin Reichard Institute of Vertebrate Biology Academy of Sciences of the Czech Republic Kvetna 8, 603 65 Brno Czech Republic

Tel. +420 543 422 522 http://www.reichardlab.eu reichard@ivb.cz

FrenchGuiana InsectSystematics

Post-doctoral position in Tropical Ecology (20-months) We are looking for a highly-motivated candidate with a significant experience in aquatic insect's systematic, food web and community ecology. The postdoc will be involved in the ANR project RainWebs (http://-rainwebs.univ-tlse3.fr). The aim of the project is to understand the interaction between biogeographic changes in regional species pools and climate change, to build a robust, multi-regional theory of how changes in the hydrologic regime affect ecosystems. We integrate phylogenetic, biogeographic and ecological approaches to understanding species composition and functional trait diversity. The post-doc will conduct replicated experiments in French Guiana and Puerto-Rico, to examine the effects of disrupted hydrological regime on the taxonomic and functional structure on aquatic food webs. We will take advantage of an ecosystem that is naturally replicated throughout the neotropics: the invertebrate food web inhabiting water-filled bromeliads. This system is especially amenable to studies of food web structure and ecosystem function, and forms a relevant model system to test ecological theory.

Candidates should have a PhD and excellent writing skills demonstrated by their publication record. They must have strong background in food web and community ecology and advanced statistical skills (coding with R or other languages). Previous experience of manipulative experiments with aquatic invertebrate/insect assemblages is desirable. Candidates should have the ability to conduct and lead field research. An experience of field work in the tropics would be appreciated. Candidates must be able to communicate in English - Ability to speak French and/or Spanish would be welcome, but not compulsory.

The position will be based at Ecofog, French Guiana (http://www.ecofog.gf) for a 20-month fixed-term contract, available from June 1st, 2014. The successful applicant should expect to undertake intensive field work during experiment periods.

To apply, candidates must send motivation letter, a CV and the names and contact information of three references into a single pdf file to Céline Leroy (celine.leroy@ird.fr) and Regis Céréghino (regis.cereghino@univ-tlse3.fr). Review of applications will begin immediately, and to guarantee full consideration please apply before March 31st, 2014.

Celine Leroy <celine.leroy@ird.fr>

InstTropMed Antwerp ParasitePopulationGenomics

The closing date is Feb 13th.

Postdoctoral researcher in parasite population genomics

Department of Biomedical Sciences - Unit of Molecular Parasitology

The Institute of Tropical Medicine (ITM) is internationally recognized as a center of excellence for education, research andservice delivery in the field of tropical infectious diseases. Within the Department of Biomedical Sciences, the Unit ofMolecular Parasitology (led by Prof. Dr. Jean-Claude Dujardin) and the Unit of Veterinary Protozoology (led by Prof. Dr. Jan-Van Den Abbeele) currently run research projects on the genome diversity of trypanosomatid parasites such as Leishmaniadonovani, L. braziliensis, L. peruviana and Trypanosoma congolense. Using next generation sequencing, we characterizeclinical isolates on a whole genome scale to study their evolution in the natural ecological context and aim to elucidatemajor clinical and epidemiological issues, such as drug resistance and transmission patterns. Major hypotheses will be thentested experimentally.

Assignment

- You closely work with (i) bio-informaticians who develop and apply diversity calling methods, (ii) clinicians/veterinarians who collected isolates and biological samples and (iii) biologists involved in experimental research.

- You apply population genetics and phylogenetic tools to the various genetic variants (SNPs, indels, ploidy, CNVs...)and you characterize the genetic structure of the populations and study the evolution of genetic variants.

- You identify genes that are potentially associated with major phenotypes (resistance, pathogenicity...).

- You interact with colleagues working on the systems biology of the parasites (metabolomics, proteomics).

- You develop your own research projects and apply for competitive grants.

- You coach MSc and PhD students of the units.

Profile

- You have a MSc in biology (or equivalent) and hold a PhD degree in sciences, preferably on a relevant topic(parasitology, population genetics, molecular epidemiology, bioinformatics, computational biology) or will completesuch a PhD degree prior to starting this position.

- You have experience in analyzing whole genome sequence data.

- You have experience in population genetics, phylogenetics and bio-statistics.

- You have basic knowledge in bio-informatics.

- Field experience is an asset.

- You have excellent knowledge of English. Fluency in French would be an asset, as well as (an interest in learning)

Dutch.

- You are used to work in a multi-disciplinary context.

Preferred additional experience

- NGS sequencing analysis tools: GATK, samtools, de novo assemblers, RNA-seq analysis.

- De novo or comparative gene annotation.

- Scripting or programming languages: Perl, Python, R, Java, MySQL, etc.

- Cluster computations, analysis pipeline development.

Offer

- An intellectually stimulating, international and socially committed environment, with room for personal initiative.

- A full time contract of 2 years, with possibility of renewal. Commencement of employment: 1/06/2014.

- A salary set according to the pay scales of the ITM and the Flemish universities.

- Reimbursement of public transport costs, bicycle compensation and luncheon vouchers.

Interested?

For more information about this position, please contact Prof. Dr. Jean-Claude Dujardin, Head of the Unit of MolecularParasitology (jcdujardin@itg.be) and/or Prof. Dr. Jan Van Den Abbeele (jvdabbeele@itg.be), Head of the Unit of VeterinaryProtozoology. Send your application with application form and motivation letter by e-mail to vacatures@itg.be, by 13/02/2014. (Pleasedownload the application form on www.itg.be/-vacatures.)

Hideo Imamura, Ph.D. hi1@sanger.ac.uk himamura@itg.be Institute of Tropical Medicine Dept of Biomedical Sciences, Molecular Parasitology Unit, Nationalestraat, 155 B-2000 Antwerpen Belgium

Hideo Imamura <hi1@sanger.ac.uk>

IowaStateU TurtleChromosomeEvolution

PostDoctoral Position in Turtle Chromosome Evolution

A postdoctoral position is available to work in the laboratory of Dr. Nicole Valenzuela at Iowa State University on an NSF-funded PhyloGenomics project to study the evolution of turtle genomes and associated transitions in sex determination.

The project combines molecular cytogenetics, transcriptomics, bioinformatics and phylogenetic analyses.

The ideal candidate will have a PhD degree and strong background in molecular and classic cytogenetic techniques including chromosomal preparation, fluorescent in situ hybridization/chromosome painting, karyotyping, and the use of Cytovision or other chromosomal analysis platform. Other qualifications such as evolutionary biology background or experience with cell culture and bioinformatics are a plus but not required.

Funding is available for up to 2 years with annual renewal contingent upon performance. The position is available immediately. Applications will be reviewed until the position is filled.

For inquiries or to apply please email Dr. Nicole Valenzuela at nvalenzu@iastate.edu <mailto:nvalenzu@iastate.edu>. Applicants should email a cover letter describing their research interests and experience, current CV, and copies of up to two relevant publications if available, and arrange to have two letters of recommendation be sent directly to nvalenzu@iastate.edu

Iowa State University does not discriminate on the basis of race, color, age, religion, national origin, sexual orientation, gender identity, genetic information, sex, marital status, disability, or status as a U.S. veteran.

Dr. Nicole Valenzuela Associate Professor nvalenzu@iastate.edu Department of Ecology, Evolution, and Organismal Biology 251 Bessey Hall Iowa State University Ames, IA 50011, USA

Phone: 515-294-1285

URL: http://www.public.iastate.edu/~nvalenzu/

nvalenzu@iastate.edu

LeibnizInst Berlin HostParasiteInteractions 2

THIS IS A REMINDER (application deadline: 15.02.2014):

The Department of Ecosystem Research of the Leibniz-Institute of Freshwater Ecology and Inland Fisheries (IGB) in Berlin together with the Free University of Berlin, invite applications for the position of:

Postdoc in Evolutionary Biology

Application deadline: 15.02.2014; Starting date: May 2014 or as soon as possible thereafter (interviews will be conducted in March); Duration of the position: 2 years

Project area: *“Host-parasite interactions in aquatic systems”*

The Postdoc will join the research group of Justyna Wolinska. The group is currently located at the Ludwig Maximilian University of Munich (Germany), but will move to Berlin in March 2014. The candidate is given the opportunity to develop their own research project. Depending on the interests / expertise of the Postdoc candidate, he / she might, for example, work in one of the following disciplines:

- molecular signatures of host-parasite coevolution in the wild

- genomics of host-parasite coevolution

- host-parasite coevolution and global environmental change (including field, experimental, and/or theoretical approaches).

So far the group has been exploring *Daphnia*-microparasites, but suggestions for other model host-parasite systems are welcome.

The Postdoc will have access to the unique, innovative experimental infrastructure of the IGB, to support molecular, microbial, and biogeochemical research. In addition, IGB is an active member of the Berlin Centre for Genomics in Biodiversity Research. We offer a stimulating working environment with plenty of possibilities for collaborations within the IGB and Free University of Berlin. Moreover, the group has established active international collaborations. Generous funds are available to cover attendance at national and international conferences as well as research stays in other universi-

ties.

The ideal candidate should have a PhD in evolutionary biology, ecology, molecular biology, bioinformatics or a related field. Ideally, he / she should have worked on host-parasite interactions, but this is not a must. We are seeking a highly motivated person who has an ambition to stay in academia. A record of successful publication is expected. We expect strong analytical and data handling skills and the ability to communicate within a cross-disciplinary research centre. Excellent writing skills in English, good work ethic, and creative thinking are desired. The working language of the group is English.

Applications should include 1) a letter of interest with a description of relevant experience, 2) curriculum vitae, 3) a list of publications, 4) a short description of the proposed research (max. 2 pages, including references), 5) names and contact information of three academic referees. Applications should be submitted as a SINGLE (!) PDF document to the following e-mail address: wolinska@bio.lmu.de, with the subject line: " Postdoc application <your family name>".

Inquiries can be made to Justyna Wolinska, e-mail: wolinska@bio.lmu.de.

The selection of the postdoctoral candidate will be based on his or her academic record and proposed research project.

Best regards,

Justyna Wolinska

Justyna Wolinska Ludwig-Maximilians-Universität München Department Biologie II Evolutionsökologie Grosshaderner Str. 2 82152 Planegg-Martinsried, Germany

Phone: +49 (0)89 2180 74201 Fax: +49 (0)89 2180 74204 email: wolinska@bio.lmu.de

http://www.evolutionary-ecology.bio.lmu.de/people/-assistant_profs/wolinska/index.html http://-www.evolutionary-ecology.bio.lmu.de/ http://-www.igb-berlin.de/

justyna.wolinska@gmail.com

Lyon France EvolutionComparativeGenomics

POSTDOC IN EVOLUTIONARY BIOLOGY / COMPARATIVE GENOMICS (Lyon, France)

A 18 months post-doc position is available in the Department of Evolutionary Genetics and Genomics of the 'Biometry and Evolutionary Biology' laboratory (LBBE, CNRS/University Lyon I), France. Research themes in the lab are focused on multiscale evolutionary questions (from molecules to communities), with strong emphasis on modeling and computer science (http://lbbe.univ-lyon1.fr/?lang=en). This double angle results in a synergy between methodological developments and biological questions.

The post-doc will work with Pr Céline Brochier-Armanet (http://www.frangun.org/) in the 'Bioinformatics and Evolutionary Genomics' team. The proposed project is part of a large study combining in silico and wet experimental work focused on the biosynthesis of atypical lipids in Bacteria. The candidate will play a key role in this project in conducting comparative genomics and molecular phylogenetic investigations aiming at deciphering the biosynthesis pathways of these atypical lipids, as well as their origin and evolution in Bacteria. The postdoctoral position will start on November 1st, 2014, for a 18 months period. The position is funded by the French Research National Agency. The salary will depend on professional experience.

Candidates should have: - a PhD in biology/biochemistry or in bioinformatics - a good knowledge in bioinformatics, and especially in comparative genomics and molecular phylogeny - programming skills - a good knowledge of current molecular phylogeny tools - a real interest/knowledge in evolutionary biology

To apply, please send to Pr Céline Brochier-Armanet (celine.brochier-armanet@univ-lyon1.fr): 1. An application letter including research interests and goals, and suitability for the proposed research topic. 2. A full CV. 3. Names and contact information of two potential academic references.

Pr Céline Brochier-Armanet Membre de l'Institut Universitaire de France

Université Lyon 1 Laboratoire de Biométrie et Biologie Evolutive UMR CNRS/Lyon 1 5558 43 Bd du 11 Novembre 1918 69622 Villeurbanne, France

Tel: 33 (0)4 26 23 44 76 Mail: celine.brochier-armanet@univ-lyon1.fr Web page: http://-www.frangun.org celine.brochier-armanet@univ-lyon1.fr

MasseyU ComputationalBiology

Postdoctoral Fellowship in Computational Biology (A020-14SF)

I am looking for a motivated and productive postdoctoral fellow to join my computational biology research group. My team conducts research in several related areas, particularly evolutionary genomics, simulation modeling and complex systems. Potential study topics include i) using genome-level data to reconstruct human prehistory in the Pacific region, ii) using approaches from complexity science to infer how genetic diversity interacts with social behaviors in small communities, and iii) using high throughput RNA-sequencing to determine universal rules behind gene expression in allopolyploid species. Candidates' proposed research must fit with my group's existing research interests, and must be computational (i.e., not primarily field- or lab-based). Candidates with an interest in population genetics are particularly encouraged to apply.

Candidates must have solid quantitative skills, preferably including expertise in statistics and programming. Some background knowledge of biology is preferred, but training in other subject areas (such as next gen sequencing or anthropology) can be provided as required. Candidates with non-standard backgrounds (e.g., statistics, computer science, mathematics, physics) are encouraged to apply.

Funding is guaranteed for 2.5 years. Salaries are extremely competitive, starting at NZ$65,000 (US$53,000) per year.

The postdoc will be based in the Computational Biology Research Group at Massey University, New Zealand. My research team is firmly embedded in the international scientific community, with extensive collaborative links to Australia, Indonesia, Europe and the United States. This position offers a rare opportunity to experience New Zealand's unique natural and cultural environment. Palmerston North, a university town with a large international community, offers a full range of social and cultural amenities. The city is located close to both mountains and the sea, and presents regular opportunities for hiking, skiing, surfing and adventure sports.

If you have any questions, please contact Assoc Prof Murray Cox (m.p.cox@massey.ac.nz). Information about the Computational Biology Research Group (http://massey.genomicus.com) and the Institute of Fundamental Sciences (http://tinyurl.com/ifsmassey) is available online.

To apply for this position, upload the following documents (preferably in PDF format) by 9 March 2014 at the official university job site:

http://jobs.massey.ac.nz/PositionDetail.aspx?p=-3D8216 1. A brief statement of research interests, qualifications and experience. 2. A curriculum vitae, including a list of scientific publications. 3. The names and contact details of three referees willing to provide a confidential letter of recommendation upon request.

Assoc Prof Murray P. Cox Institute of Fundamental Sciences Massey University Private Bag 11 222 Palmerston North 4442 NEW ZEALAND

http://massey.genomicus.com m.p.cox@massey.ac.nz

murray.p.cox@gmail.com

Montpellier ModellingClimateAdaptation

Post-doctoral position at CEFE Montpellier, France

*Mechanisms of adaptation to Climate Change: how will phenotypic plasticity and microevolution affect forest tree phenology? *

Starting date: Up to 1^st December 2014

Duration: 24 months with possible extension of 12 months

Location: Montpellier, France

Net income is about 1900EUR/month, including pension and health benefits

**

Overview

This 24-month post-doctoral project is part of the French National Research Agency project MeCC "Mechanisms of adaptation to Climate Change: how will phenotypic plasticity, microevolution and migration affect forest tree phenology". The post-doc will be responsible for carrying out simulations with the process-based species distribution model PHENOFIT to address questions about the relative contributions of microevolution and phenotypic plasticity to adaptation, and will be responsible for integrating adaptive

mechanisms into PHENOFIT. The candidate will be based at the Center of Functional and Evolutionary Biology (CEFE) in Montpellier (France), supervised by Isabelle Chuine and also by Ophélie Ronce at ISEM, Montpellier. The candidate will also collaborate with Anne Duputié, a former Post-doctoral fellow who has worked in this topic, who is now Assistant Professor at GEPV, Univ Lille, and with Bérangère Leys, currently post-doctorate at CEFE with Isabelle Chuine and Xavier Morin and parameterizing PHENOFIT for silver fir.

**

Key words

process-based species distribution model, climate change, micro-evolution, plasticity, quantitative genetics, niche evolution models, /Fagus sylvatica/, /Abies alba,/ /Quercus petraea /

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*Objectives of the post-doctoral project *

There will be two main tasks:

1.The post-doc will be responsible for estimating selection gradients on bud burst dates using the model PHENOFIT.

Selection gradients, i.e. the variation of the intensity and direction of selection acting on the trait will be calculated for sessile oak, beech and silver fir in various contexts: between years in the same location, along climatic gradients (altitudinal and latitudinal), and in future climate conditions using different climate scenarios. PHENOFIT is a process-based species distribution model, which simulates, using meteorological data, the detailed phenology (bud burst, flowering, fruit maturation, leaf senescence or bud set), the resistance to frost and drought of an average tree in a monospecific forest stand. A new version incorporates also growth, a more mechanistic representation of the resistance to drought and the impact of carbon reserves on survival. It has been parameterized for beech and sessile oak (Cheaib et al. 2012) and is being parameterized for silver fir. PHENOFIT provides the annual probability of survival and a relative reproductive success. PHENOFIT predict bud burst date each year as a function of accumulation of chilling and forcing temperature units, using phenological models modules adjusted to observed variation in phenology.

To compute selection gradients acting on bud burst date, we will modify the model, following two approaches. First, instead of using the bud burst date predicted by the phenological model as a function of experienced temperature in the simulation, we will artificially set the bud burst date to a given value and explore the consequences on different fitness components such as mortality and reproductive success. This will allow us to determine, for each year in the simulation, the optimal bud burst dates maximizing reproductive success and survival respectively. These predictions about selection gradients on bud burst dates will be tested by confronting them to empirically derived selection gradients in a small number of sites obtained. In the second approach, we will not constrain the bud burst date, but vary parameters of the reaction norm that describe the response of bud burst date to temperature (i.e. the parameters of the phenological models) and similarly estimate the consequences on fitness components. This will allow deriving optimal reaction norms for bud burst date taking into account the predictability of the environment along the yearly cycle. In both approaches, predicted yearly variation in mortality and reproduction will be combined in integrative fitness measures, such as the summed contribution of an average tree to seedlings production over a given time span.

The model will be used to compute mean fitness associated with variation in bud burst date at many spatial and temporal scales. The model can be run on selected locations or regions from a few kilometers square up to France or Europe, and on the historical period or the next decades up to 2100. This will allow us to estimate selection gradients of bud burst date across the species range, across the climatic space, and to estimate how they will vary with climate change following different IPCC

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Montreal ComputationalStatisticalGenomics

Post-doctoral Position in computational/statistical genomics, Montreal, Canada.

A postdoctoral position in computational/statistical genomics is available in the BarreiroÕs Lab at the University of Montreal and at the Sainte-Justine Hospital Research Center. Our group studies the genetic basis of differences in immune response among human individuals and populations, as well as between humans

and other primates. Projects in our lab are multidisciplinary and combine the use of cutting edge genomic techniques (e.g., RNA-seq) with immunological and evolutionary genetic tools. More details on some of our ongoing projects can be found on our website: http://-/luis-barreirolab.org/ Postdoctoral applicants should have a quantitative background and/or extensive experience with genomic data analysis. Strong programming and bioinformatics skills are essential. Knowledge in theoretical population genetics or a background in evolutionary biology is a plus. The applicants will have the freedom to choose their own projects as long and they fit within the general interests of our lab.

Our lab offers a congenial research environment complemented by the rich academic milieu of Montreal. Montreal has a large genomics community with whom we interact regularly. Postdocs in our lab are encouraged to develop collaborations with other groups and to start developing an independent research program. To apply for the position please send an email to Luis Barreiro (luis.barreiro@umontreal.ca) including a cover letter and your resume/CV together with contact information for at least two references. Informal inquiries are also welcome.

Luis Barreiro, PhD. Assistant Professor CHU Sainte-Justine/University of Montreal

Canadian Research Chair in Functional and Evolutionary Genomics of the Immune System.

luis.barreiro@umontreal.ca

lbbarreiro@gmail.com

NHM Paris AdaptationGenomics

Postdoctoral position in the genomics of adaptation at the Natural History Museum in Paris

A two-year postdoc is available for an independent, creative and motivated post-doc to work on the genomics of adaptation and hybridization in mimetic butterflies. The postdoc will work with Violaine Llaurens and Mathieu Joron at the Institute of Systematics, Evolution and Biodiversity at the National Museum of Natural History in Paris (France).

Our group is interested in the ecological and genetic changes associated with adaptive wing color patterns in Heliconius butterflies. We are particularly interested in genomic architectures and the formation of a supergene controlling a spectacular wing pattern polymorphism associated with mimicry in the species Heliconius numata. This supergene is characterized by complex inversion polymorphism forming long haplotypic blocks, and a dominance hierarchy of alleles. This adaptive architecture appears to have evolved in response to selection for multiple mimicry forms, but how the variants corresponding to accurate mimetic phenotypes differentiate is still a puzzle. Processes such as ancestral polymorphism, large size mutations, or introgression may be involved, and some seem to be supported by our currently available resequence and transcriptome datasets. Our project aims at understanding the evolutionary origins and the functional basis of this genetic architecture in this lineage and how this relates to closely-related species. The postdoc will be in charge of developing population genomics approaches towards the dissection of the history of inversion polymorphism and recombination in H. numata and close allies, and transcriptomic/expression analyses to understand the functional basis of supergene expression.

Butterflies in the genus Heliconius have become a prominent group of insects for evolutionary genomics, with a rich evolutionary radiation, a reference genome, and vigorous collaboration between labs within the Heliconius consortium (www.heliconius.org). This project, funded by a grant from the Agence Nationale de la Recherche (ANR), will provide ample opportunity for the postdoc to develop his/her own original research ideas.

Candidate profile: A Phd in evolutionary biology, with a strong interest in population genomics. Experience with whole genome or transcriptome datasets would be appreciated.

Income and Starting Date: Net salary will be around 2500 euros net per months, depending on experience. Starting date in the spring 2014 is desired but is negotiable.

Application deadline: Send us a CV and a cover letter, and the names of two references by 28th February 2014 to the following addresses: joron@mnhn.fr and llaurens@mnhn.fr

More information:

http://isyeb.mnhn.fr/joron http://isyeb.mnhn.fr/-violaine-llaurens http://isyeb.mnhn.fr/mathieu-joron

Violaine Llaurens (CR2 CNRS)

Museum National d'Histoire Naturelle Laboratoire ISyEB - UMR7205 Batiment d'entomologie - CP50 45, rue Buffon 75005 PARIS France

Phone : 00 33 (0)1 71 21 46 96 Fax : 00 33 (0)1 40 79

56 79

WebPage: http://isyeb.mnhn.fr/Violaine-LLAURENS
violaine.llaurens@mnhn.fr

Paris-MNHN Population Genetics

We offer a post-doctoral position of one year and a half founded by the French Agence Nationale de la Recherche, project "Demochips". The ideal candidate would be a computational biologist interested in molecular population genetics to study i) the demographic history of Drosophila melanogaster and simulans; ii) the applicability of next generation sequencing data to investigate complex demographic scenarios.

This project is a joint collaboration between four laboratories located in Paris, who share regular meetings. The postdoctoral fellow will be under the responsibility of Stefano Mona and he/she will be based in the team "Génétique des populations, sélection, structuration, spéciation" within the UMR 7205 MNHN-CNRS-EPHE located at the National Museum of Natural History in Paris, France. If interested, please send a CV, a brief description of research interest and the names of at least two referees to Stefano Mona (mona@mnhn.fr), no later than the end of March 2014.

The main focus of the project will be the development and the application of spatially explicit population genetics models (coupled with ABC or MCMC methods) to trace the most likely route of migrations within and out of Africa in both D. melanogaster (using data available in literature) and D. simulans (using data produced in our lab) and date these events. Depending on the experience and the interests of the postdoctoral fellow, several related questions could be also addressed.

Interviews can be arranged by skype and possible starting date is as early as April 2014 and not later than September 2014. Net salary per month will be around 2,000 euros.

Stefano Mona (MCf EPHE)

Museum National d'Histoire Naturelle Laboratoire ISyEB - UMR7205 Batiment de Cryptogamie - CP39 16 rue Buffon 75005 PARIS France

Tel : +33 1 40 79 81 66

mona@mnhn.fr

Rothamsted UK 2 EvolHerbicideResistance

POST-DOCTORAL RESEARCH SCIENTIST MOLECULAR POPULATION BIOLOGIST

Rothamsted Research, the largest agricultural research centre in the UK and the oldest agricultural research station in the world is seeking a postdoctoral molecular population biologist. You will work in the weed ecology and evolution group within the Department of Agroecology at Rothamsted Research. The postholder will work closely with a team of scientists on a large, interdisciplinary and multi-institute research programme exploring the evolution of herbicide resistance.

The successful applicant will apply molecular population genetic, genomic sequencing and molecular ecological approaches to explore the evolution of herbicide resistance in weedy plant populations. You will collaborate with weed ecologists, evolutionary biologists, molecular biologists, biological chemists and modellers to explore population structure in herbicide resistant weed populations and the evolutionary dynamics of selection for herbicide resistance.

We are looking for a highly motivated individual with a firm grounding in molecular genetics, population genetics and statistical approaches relevant to exploring contemporary adaptation in plant populations. Applicants should be committed to application of this knowledge to a major issue affecting global food security.

This is a Band D full time post funded for 3 years with a starting salary usually in the region of £29,547 to 31,995 per annum.

Apply by application form only, available with further particulars from www.rothamsted.ac.uk or from the HR Group, Rothamsted Research, Harpenden, Herts, AL5 2JQ, rres.hr@rothamsted.ac.uk. Please quote reference 1311.

Closing date: 7 March 2014

POST-DOCTORAL RESEARCH SCIENTIST PLANT ECOLOGIST

Rothamsted Research, the largest agricultural research centre in the UK and the oldest agricultural research station in the world is seeking a postdoctoral plant ecologist. You will work in the weed ecology and evolution group within the Department of Agroecology at

Rothamsted Research. The postholder will collaborate with a team of scientists on a large, interdisciplinary and multi-institute research programme exploring the evolution of herbicide resistance.

The successful candidate will undertake research to establish the extent and spatial distribution of herbicide resistance. They will perform experiments to determine the genetic architecture of herbicide resistance and trade-offs with other life history traits. They will develop appropriate statistical models to analyse these data. You will work closely with a team of molecular biologists, ecologists, evolutionary biologists and modellers to deliver this ambitious project which seeks to adopt a 'systems ecology' approach to tackle the mounting problem of rapid evolution of resistance to herbicides.

We are looking for highly motivated individuals with a relevant PhD and post-doctoral experience in aspects of plant ecology and evolution, population biology and statistical modelling.

This is a Band D full time post funded for 4 years with a starting salary usually in the region of £29,547 to 31,995 per annum.

Apply by application form only, available with further particulars from www.rothamsted.ac.uk or from the HR Group, Rothamsted Research, Harpenden, Herts, AL5 2JQ, rres.hr@rothamsted.ac.uk. Please quote reference 1314.

Closing date: 7 March 2014

Paul

"Paul Neve (RRes-Roth)" <paul.neve@rothamsted.ac.uk>

SCAM email

Hi,

The advertisement below came through on EvolDir (http://life.biology.mcmaster.ca/ ~ brian/evoldir/-PostDocs/Sydney.MarineConservation) on Feb 8. The email appeared strange to me, not listing who the organization was and other relevant details. I emailed them for more information and got back a strange response. I decided to get in touch with a collaborator at the University of Sydney, and she and I both believe that this is a scam. Its an attempt to victimize early career researchers and steal ideas. I wanted to inform you, so that a retraction or notice could be published. I dont want anyone to become a victim.

Thanks,

Jon

POSTDOCTORAL RESEARCH POSITION FOR 3 YEARS (REVIEWED AFTER 1 YEAR)

WHAT: Marine conservation in a changing climate WHERE: Sydney, Australia WHEN: 2014 - Flexible start

Two full-time postdoctoral positions for 3 years are available at a local conservation organisation in the Sydney Harbour region. The position will start when filled; all applications submitted until March 1st 2014 will be fully considered. Only selected candidates will be selected for interview, at which point we will also contact you for appropriate letters of reference.

The project has a lot of flexibility within the boundaries of 'marine Conservation in a Changing Climate'. We expect applications from candidates with strong interdisciplinary skill sets, including but not limited to: Conservation, population genetics, epigenetics, climate modelling, ecology, ocean acidification, behavioural, genomics etc. The decision will be made on a combination of past professional experience (CV) and the quality, originality, and visionary aspects of a short proposal (2 page maximum) outlining your potential project.

ESSENTIAL CRITERIA: PhD in Marine Biology

A competitive postdoctoral salary for the region (and candidates experience) will be discussed during the interview process (via Skype).

APPLICATION PROCEDURE For formal applications, please submit (1) your cv, (2) your 2 page proposal, (3) a brief cover letter.

Email your application to SydneyConservationPostdoc@gmail.com

sydneyconservationpostdoc@gmail.com

– JonPuritz, PhD Postdoctoral Research Associate Harte Research Institute Texas A&M Corpus Christi 6300 Ocean Drive Corpus Christi, TX 78412-5869

Webpage:http://staff.tamucc.edu/jpuritz Email: jpuritz@gmail.com jonathan.puritz@tamucc.edu

Work: 361-825-3343 Cell: 401-338-8739

Jon Puritz <jpuritz@gmail.com>

SLU Uppsala EvolutionaryBiol

Postdoc in Plant-Insect Interactions

A two-year postdoctoral position is currently available within the unit for Plant-Insect Interactions at the Department of Ecology at the Swedish University of Agricultural Sciences in Uppsala.

Research questions and study system

Ecological and evolutionary interactions can be so closely related as to be entangled. A general question to investigate is how evolution and genetic variation in plants shape their interactions with insects, and how the insects in turn impose natural selection on the plants.

Our study system is based on the host plant Fragaria vesca (woodland strawberry), the herbivore Galerucella tenella (the strawberry leaf beetle), a specialist parasitoid, and pollinators. The insects show diffuse interactions with the host plant as herbivory repels pollinators leading to low pollination success of herbivore-damaged plants.

The degree of resistance to herbivores varies widely between strawberry individuals. The postdoc will have access to a large common garden with 100 wild strawberry clones with known resistance to herbivores (ranging from very susceptible to resistant). Key questions to answer include how resource allocation to other plant traits shift in parallel with increased resistance, and if the herbivore imposes natural selection on resistance and flower production. The postdoc will also have some freedom to explore other similar questions, depending on his/her research interests.

About the Department of Ecology

The Department of Ecology at SLU conducts empirical and theoretical research for sustainable forest and agricultural production and efficient biological conservation. Our research on populations, communities, and ecosystems forms the foundation for studying the influence of land use and climate on animals, plants, soils nutrient status and greenhouse gas balances. Solutions are sought that will mitigate climate change, preserve threatened species, benefit biological diversity and ecosystem services, and control pests in forest and agricultural landscapes as well as in urban areas.

Duties: The postdoc will analyze an existing data set as well as perform new empirical research to address the key questions mentioned above. Other tasks may include supervision of PhD and Master's students.

Qualifications: Applicants should hold a PhD degree Ecology, Biology, or similar subject. Scientific qualifications within the area are necessary. Earlier experience of working with large data sets is meriting. Good collaborative ability is necessary.

Competence: We are looking for a highly motivated person with a doctoral degree in Ecology, Biology, or similar subject, where the research has been focused on evolutionary aspects of plant-insect interactions. The ranking of candidates will be made based on proven scientific competence within the subject of the position. Priority will be given to applicants who have been awarded their PhD degree at most three years before the application deadline.

Link to the announcement: http://www.slu.se/sv/om-slu/fristaende-sidor/aktuellt/lediga-tjanster/las-mer/-?eng=1 jogstephan@googlemail.com

SLU Uppsala Plant-Insect Interactions

A two-year postdoctoral position in Plant-Insect Interactions is currently available at the Department of Ecology at the Swedish University of Agricultural Sciences in Uppsala, SWEDEN. Please forward onto anyone that you think might be interested.

http://www.slu.se/sv/om-slu/fristaende-sidor/-aktuellt/lediga-tjanster/las-mer/?eng=1&Pid=1356
Johan A. Stenberg Associate Professor

Sveriges lantbruksuniversitet Swedish University of Agricultural Sciences

Department of Ecology PO Box 7044, SE-750 07 UPPSALA Visiting address: Ulls väg 16 Phone: +46 18 67 23 67, Mobile: +46 70 622 00 42 johan.stenberg@slu.se, www.slu.se/ecology/stenberg Johan.Stenberg@slu.se

Seattle ViralPhylogeneticsEvolution

A new postdoctoral position is available in Trevor Bed-

ford's group at the Fred Hutchinson Cancer Research Center located in Seattle, WA. Research will focus on virus phylogenies and infectious disease dynamics. A primary goal is to reconstruct patterns of strain replacement and characterize what makes a strain evolutionarily successful. With knowledge of past success, future progenitor strains may be able to be algorithmically predicted. Initial application will focus on the influenza virus where timely inference of progenitor strains has important applications to vaccine strain selection.

Previous research has shown that amino acid replacements at certain sites in influenza's hemagglutinin (HA) protein tend to result in viruses that can partially escape existing human immunity leading to these mutants fixing within the viral population. Still, other sites in HA appear to be primarily functional and replacements at these sites lead to viral lineages that are likely to go extinct. Other research has focused on phylogeographic patterns, finding that viruses in China and Southeast Asia are historically more likely to be progenitor strains. The proposed research aims to extend and unite these previously retrospective studies to a fully statistical and predictive framework for viral evolution that would incorporate multiple predictors of evolutionary success. For general background, see http://-/bedford.io . The ideal candidate has experience with phylogenetic inference and/or infectious disease modeling and a strong interest in computational and statistical methods development. Candidates should also have programming experience in at least one scripting language (e.g. R, Python, Perl) and/or one compiled language (Java ideal) and a proven track-record of peer reviewed publications. However, candidates with PhDs from diverse backgrounds are encouraged to apply, including biology, mathematics, statistics, physics and computer science.

The position is available immediately with flexible starting dates for a 2-year appointment with possibility of extension. Informal inquires are welcome. Applications will be accepted until the position is filled. The Fred Hutchinson Cancer Research Center offers competitive salaries commensurate with experience and skills, complete with benefits.

To apply please send (1) cover letter that includes the names and contacts for three references and a short statement of research interests, (2) a current CV and (3) code samples or links to published/distributed code to tbedford <at> fhcrc.org.

Trevor Bedford Assistant Member Vaccine and Infectious Disease Division Computational Biology Program Fred Hutchinson Cancer Research Center http://-/bedford.io trvrb@trevorbedford.com

Sheffield ComputationalStatisticalGenomics

Post-doctoral position in computational/statistical genomics and species formation, Nosil lab, Sheffield, United Kingdom.

A two-year postdoc is available for a creative and motivated post-doc to work on the genomics of adaptation and speciation in Timema stick insects. The postdoc will work with Patrik Nosil in the Department of Animal and Plant Sciences at the University of Sheffield (also in close collaboration with Zach Gompert at Utah State University).

The position is funded by an European Research Council grant focused on testing hypotheses about how genomes evolve as species formation unfolds from beginning to end. One major goal is to directly isolate the role of the process of natural selection in generating observed patterns of genomic divergence between host-associated populations and species of stick insects. The approach is to combine 'standard' observational whole genome sequencing with field transplants directly and experimentally measuring selection at the genomic level. The results will provide insight into the temporal and genomic dynamics of speciation.

What we require: The postdoctoral fellow will be responsible for leading hypothesis-driven analyses of large DNA sequence data sets (i.e., genome-scale data from 100's of individuals). A Ph.D. is required. The successful applicant will have: (i) demonstrated expertise in population genetics, phylogenetics, genomics, or computational statistics, (ii) experience with UNIX, high performance computing, and programming in C or C++ (preferred) or in R and Perl or Python, (iii) the ability to develop and apply statistical or computational methods to solve problems, and (iv) a history of independent and creative thinking in the design or execution of big data analysis.

What we offer: A two-year contract hosted in a vibrant department and lab group. The position will come with flexibility for pursuing independent research ideas surrounding the general theme of genome evolution during speciation.

The position will remain open until a suitable candidate is found.

To apply, contact Patrik Nosil by email

(p.nosil@sheffield.ac.uk) and include a CV and brief (1-page) statement of research interests.

For more information on the lab: http://nosil-lab.group.shef.ac.uk/ p.nosil@sheffield.ac.uk

SwanseaU EvolutionPathogenResistance

PhD position available at Swansea University

Genetic basis of pathogen resistance in farm and wild fish populations under inbreeding

Supervisors: Dr Sonia Consuegra (Swansea University; College of Science); Dr. Jo Cable (Cardiff University) & Dr Marianne Pearson (FishVet Scotland)

Contact email: s.consuegra@swansea.ac.uk

Application deadline: 15 February 2014

Project summary

The Department of Biosciences at Swansea Universaity is offering one 4-year Industrial CASE studentship funded by NERC. This is a collaborative, multidisciplinary project combining evolutionary biology (Dr. Consuegra, Swansea University) and parasitology (Dr Cable, Cardiff University) with the more applied field of aquaculture (Dr. Pearson, FishVet).

The project will investigate the relative role of immunogenetic versus genome-wide diversity in pathogen resistance in wild and farmed inbred/bottlenecked fish populations. The work will focus on the immune-related MHC genes and use two model species: the unique self-fertilising mangrove killifish (Kryptolebias marmoratus) and Atlantic salmon (Salmo salar).

The mangrove killifish is a self-fertilising (selfing) species. Its populations are mostly composed by selfing hermaphrodites with extremely low genetic diversity but the offspring of crosses with males have higher MHC diversity and carry lower parasite loads that their inbred counterparts. Atlantic salmon is the main salmonid cultured in the world and its MHC has been widely studied. Salmon express single unlinked MHC genes and balancing selection maintains their high levels diversity. Associations between MHC genes and resistance/susceptibility to major salmonid diseases have been found in farmed populations. In addition, salmon offspring of MHC dissimilar parents display higher resistance to parasites.

The student will analyse experimental infections at the aquarium facility at Cardiff University (Saprolegnia in killifish) and infection outbreaks in a farm setting in collaboration with the CASE partner and comparing resistance of families with different degrees of genome-wide genetic diversity and MHC class diversity. The project will take advantage of the wide knowledge of the A. salmon genome (including a recently developed SNP chip and QTLs identified for IPN) and of the NGS techniques developed by the main supervisor for MHC genotyping. It will provide the student a unique combination of training in the industrial environment (aquaculture and veterinary), molecular and experimental laboratory analyses at Swansea and Cardiff Universities as well as field experience to collect samples from wild fish populations.

We seek a highly motivated student with a first class or upper second class degree in a relevant biological discipline willing to work within both a university environment and an industrial company. Good level of statistics (ideally with knowledge of R), some experience in molecular biology/genetics and/or willingness to carry out field work in remote locations would be desirable.

Informal enquiries before the deadline for formal applications are welcome by submitting a CV and covering letter outlining suitability for the position to Sonia Consuegra at s.consuegra@swansea.ac.uk.

This NERC Industrial CASE studentship is funded for 48 months, providing a maintenance stipend for 4 years (£13,863 for 2014/2015) plus an additional £1,000 from the CASE partner per year. The studentship also covers full fees at the UK/EU rate and additional research expenses required for the project. Applicants must meet the UK Research Council eligibility criteria, including the 3-year residency requirements in the UK. For details of eligibility requirements please see http://www.nerc.ac.uk/funding/available/-postgrad/eligibility.asp Deadline for applications is the 15th of February. For details on how to apply go to: http://www.swansea.ac.uk/biosci/-postgraduate/phdopportunitiesandresearchtopics/-geneticbasisofpathogenresistanceinfarmandwildfishpopulationsunderin

Sonia Consuegra

Dept Biosciences College of Science Swansea University Singleton Park SA2 8PP Swansea

Tel. +44 (0) 1792 602931 Email. S.Consuegra@swansea.ac.uk

http://www.swansea.ac.uk/staff/science/biosciences/-s.consuegra https://www.researchgate.net/profile/-Sofia_Consuegra

"CONSUEGRA S." <S.Consuegra@swansea.ac.uk>

Sydney MolcularEvolEucalypts

POSTDOCTORAL POSITION: MOLECULAR AND CHEMICAL ECOLOGY OF EUCALYPTUS MOLUCCANA

One postdoctoral position is available at the Hawkesbury Institute for the Environment at the University of Western Sydney, Australia.

The Hawkesbury Institute for the Environment conducts research in a range of areas that include plant and animal biology, ecology and evolution; pant-animal and plant-soil interactions; soil microbial ecology; genomics and bioinformatics; ecosystem function and climate change biology.

The Hawkesbury Institute for the Environment (HIE) is seeking to appoint an energetic and highly motivated postdoctoral researcher with a demonstrated ability to conduct outstanding research on the molecular and/or chemical ecology of plants. The postdoctoral researcher will be appointed to an academic level A position in the HIE. This full-time position is available for 2 years with the possibility of an extension thereafter, pending funding availability. The successful applicant will focus on research related to a research project entitled ^{3}Psyllid-induced dieback of Grey Box (Eucalyptus moluccana) on the Cumberland Plain^{2}. The project addresses the important question of whether the extensive fragmentation and reduction of the Cumberland Plain Woodlands in Western Sydney has resulted in a loss of genetic and chemical diversity of the dominating tree species, Eucalyptus moluccana. Discovering this genetic and chemical diversity within and beyond the affected region is crucial to understanding their role in the chronic area-wide defoliation of Eucalyptus moluccana by psyllids (plant-sap feeding insects) in the critically endangered Cumberland Plain Woodlands. The results will inform future conservation efforts and strategies and also deliver fundamental findings relevant to eucalypt diversity and insect-plant interactions.

The successful applicant will work with a team of scientists in the HIE within the Research Theme Plants, Animals and Interactions. The applicants should have skills and research experience in the broad area of molecular and/or chemical ecology of plants. More specifically, the successful candidate will require experience and knowledge in the fields of population genetic and genomic analyses and/or analysis of plant chemistry relevant to insect attack. Research will be field and laboratory based. The Hawkesbury Institute for the Environment has state of the art laboratory facilities for this type of research, as well as fantastic field research facilities. It is based on the Hawkesbury campus of UWS, located in Richmond, 60 km from central Sydney, in the close vicinity to the spectacular Blue Mountains and Wollemi National Parks.

Remuneration Package: Academic Level A $91,289 AUD to $96,851 AUD p.a (comprising Salary $77,140 AUD to $81,840 AUD p.a. plus 17% Superannuation and Leave Loading)

Closing Date: 16 February 2014

How to Apply: Go to the web site http://-uws.nga.net.au/cp/ scroll to the job reference 008/14. Click on the reference number and follow the instructions at the bottom of the page on 'How To Apply'.

Further information about the Hawkesbury Institute for the Environment can be found on www.uws.edu.au/hawkesburyinstitute; more information about the position can be obtained from Dr Markus Riegler m.riegler@uws.edu.au.

Dr Markus Riegler Senior Lecturer | Higher Degree Research Director Hawkesbury Institute for the Environment University of Western Sydney Locked Bag 1797, Penrith NSW 2751, Australia phone: +61-2-4570 1229 | email: m.riegler@uws.edu.au web: http://www.uws.edu.au/hie/markusriegler M.Riegler@uws.edu.au

SyracuseU EvolutionaryGenetics

Post-Doctoral Associate in Plant Evolutionary/Ecological Genomics

A post-doctoral position is available in the laboratory of Jannice Friedman, in the Department of Biology at Syracuse University. The goal of this NSF-funded project is to understand the evolutionary, ecological and genetic mechanisms underlying seasonal differences in flowering in Mimulus guttatus. The research addresses how annual and perennial populations integrate daylength and temperature cues to determine when to flower.

Our research addresses the following questions: What is the genetic basis of differences between annual and

perennial strategies in M. guttatus in their response to seasonal cues? What are the fitness consequences and adaptive significance of this variation in the field? What is the evolutionary history of the differences between annuals and perennials, and what is their distribution throughout the M. guttatus range? The research will use a combination of QTL mapping (using next-gen sequencing), common garden experiments in the native range (western N. America), and greenhouse and laboratory work at Syracuse.

The Department of Biology at Syracuse University has a strong concentration in ecology and evolutionary research with opportunities for interaction and collaboration. We are located in the recently constructed Life Science Center, which includes modern lab, greenhouse and computational facilities.

Preference will be given to candidates with a strong background in evolution, and experience with population or quantitative genetics and next-gen sequencing would be valuable. The position is available for 2-3 years, and will include a competitive salary and full benefits. The ideal start date would be July 2014. Interested candidates should contact me by email at friedman@syr.edu. Applications should include: a brief description of past research accomplishments and future goals, CV, PDFs of two publications, and contact information for three references.

Jannice Friedman Assistant Professor Department of Biology Syracuse University 107 College Place Syracuse NY 13244 315.443.1564 friedman@syr.edu http://friedmanlab.syr.edu jannicefriedman@gmail.com

UArizona EcoEvolutionaryTheory ClonalInterference

_Postdoc position in eco-evolutionary theory _

A postdoc position is available to work with PI Joanna Masel (http://eebweb.arizona.edu/faculty/masel) at the University of Arizona in Tucson. A popular tourist destination surrounded on all four sides by mountainous national and state parks, Tucson is a vibrant city of nearly a million people with an attractive climate. The EEB department in Tucson was ranked in the top 10 by US News & World Report.

We seek to study evolutionary rescue in the presence of clonal interference, via a model of asexual population genetics (based on Desai & Fisher 2007). This model will be modified so that genotypes specify absolute fitness in a deteriorating environment, rather than relative fitness as is the norm in population genetics. The project will explore the integration of density-dependence terms r and K with the classical population genetics fitness term of w, as part of an eco-evo theoretical synthesis. A strong quantitative background together with computational and/or modeling experience is required. A background in evolutionary and/or ecological theory is strongly preferred.

The Masel group's main research interests http://www.eebweb.arizona.edu/faculty/masel/research/index.html are in robustness and evolvability, using a mixture of analytical theory, bioinformatic and simulation approaches. Contact Joanna Masel at masel@u.arizona.edu for more information and to apply. The position is available immediately and renewable over multiple years.

masel@email.arizona.edu

UArizona GeneNetworkEvolution

Postdoc position in the evolution of gene networks

A postdoc position is available to work with PI Joanna Masel (http://eebweb.arizona.edu/faculty/masel) at the University of Arizona in Tucson. A popular tourist destination surrounded on all four sides by mountainous national and state parks, Tucson is a vibrant city of nearly a million people with an attractive climate. The EEB department in Tucson was ranked in the top 10 by US News & World Report.

The project involves completing the implementation of a "toy" computational model of transcriptional networks that is realistic enough to be related to yeast data yet simple enough for evolution to be rapidly simulated. The model will then be used to study a range of questions, including network topology and the evolution of robustness/canalization to mutation, to the environment, and to the stochasticity associated with small numbers of molecules in cells. Excellent scientific programming skills are required, with proven software management skills preferred. Experience in evolutionary biology, genomics, systems biology, mathematical modeling and/or the biology of transcription factors and their binding sites is preferred.

The Masel group's main research interests http://www.eebweb.arizona.edu/faculty/masel/research/-

index.html are in robustness and evolvability, using a mixture of analytical theory, bioinformatic and simulation approaches. Contact Joanna Masel at masel@u.arizona.edu for more information and to apply. The position is available immediately and renewable over multiple years.

masel@email.arizona.edu

UCambridge DrosophilaVirus Genetics

Applications are invited for an ERC funded postdoctoral position in the field of host-parasite evolution and genomics based in the Department of Genetics, University of Cambridge. The post holder will investigate genetic variation in the susceptibility of Drosophila to viral infection.

Insects vary in their susceptibility to viral infection, and this variation affects disease transmission by vector species, and the survival of beneficial insects and pests. The successful candidate will investigate the genetic basis of this variation in Drosophila using next generation sequencing, published genome sequences and the tools of Drosophila genetics. This will not only give insights into the molecular and cellular basis of how resistance to viruses evolves in nature, but population genetic approaches will also allow us to understand the factors that maintain variation in susceptibility to infection in populations. There will be scope for the successful applicant to drive the direction of their research, and they will be expected to collaborate closely with other postdocs in the lab.

We are seeking highly motivated candidates who have a deep interest in this area of research. You must have, or be about to obtain, a PhD and your past work will be in genetics or evolutionary biology. Relevant experience includes population genetic analysis, the analysis of next-generation sequencing data, Drosophila genetics and host-pathogen evolution and genetics.

The position is available immediately, but the start date is negotiable.

All applications through http://www.jobs.cam.ac.uk/job/3296/ . Informal enquiries should be sent to f.jiggins@gen.cam.ac.uk, and details of the lab can be found at www.gen.cam.ac.uk/research/Jiggins . Fixed-term: The funds for this post are available until 31 October 2016 in the first instance.

fmj1001@cam.ac.uk

UChicago EvolutionGeneRegulation

Applications are invited for a postdoctoral research associate with Ilya Ruvinsky in the Department of Ecology & Evolution and the Institute for Genomics and Systems Biology at The University of Chicago.

Major interests of our laboratory are 1) evolution of gene regulatory mechanisms and 2) organismal biology of stress response. We are using /C. elegans/ and related nematodes as model systems.

Candidates must have a Ph.D. in Genetics, Molecular or Evolutionary Biology or related field. The ideal candidate will be creative, energetic and have excellent communication skills. All candidates must have a background or interest in molecular evolutionary genetics as well as expertise in molecular biology, particularly using genetics in model organisms. Evidence of productive prior research is also expected.

To apply, please e-mail (to I. Ruvinsky) the following: (1) a CV, (2) a 1-page statement of past accomplishments and PDFs of most relevant publications, (3) research interests and (4) names and contact information of three referees. Review of applications will begin immediately and will continue until the position is filled.

Ilya Ruvinsky, Ph.D. Associate Professor of Genetics and Evolution Department of Ecology & Evolution The University of Chicago 1101 East 57th Street Chicago, IL 60637

e-mail - ruvinsky@uchicago.edu Office - (773) 702-1533 http://pondside.uchicago.edu/ecol-evol/people/ruvinsky.html Ilya Ruvinsky <ruvinsky@uchicago.edu>

UConnecticut PlantBioinformatics

A Postdoctoral Researcher position is being offered in the Department of Ecology and Evolutionary Biology at the University of Connecticut. The applicant will be a member of a research group interested in genome biology, integrative genomics, scientific databasing, and bioinformatics.

RESPONSIBILITIES:

- Perform scientific research as part of a collaborative project focused on the sequencing, assembly, annotation, and analysis of three conifer genomes. - Apply computational approaches to analyze RNA-Seq expression data - Develop and apply comparative genomics methods - Collaborate with biologists to characterize and study novel gene families - Develop and support tools to enable the extraction of information from large, complex genomes - Provide bioinformatics training to other team members

REQUIREMENTS: To be eligible, applicants must have received a Ph.D. in computational biology, bioinformatics, computer science, genetics, or a related discipline involving significant computational experience.

The ideal candidate will have:

- Training in statistics and genetics - Fluency in Unix computing environments (shell scripting) - Programming experience (Perl/Python/Java) - Experience with next generation sequence analysis (RNA-Seq) - Familiarity with version control systems

PREFERENCES: Highly motivated individuals with a strong background in genetics and computational biology, and a record of scientific productivity are encouraged to apply.

HOW TO APPLY: Interested applicants should submit a letter of interest, statement of research interest and experience, curriculum vita, and contact information of three professional references. Please send all materials to Jill Wegrzyn (jill.wegrzyn@uconn.edu)

jillylee@gmail.com

UMiami AdaptationGenetics

Two Post-doctoral Positions in High-altitude Adaptation and Plasticity

Two postdoctoral positions are available beginning August 2014 to work on the mechanistic and genetic basis of hypoxia resistance in Andean waterbirds, at the University of Miami in Coral Gables, Florida, under the direction of Kevin McCracken and collaborating investigators Graham Scott (McMaster University), Bill Milsom (University of British Columbia), and Peter Frappell (University of Tasmania).

We are looking for one postdoc with a background in integrated physiology to collaborate on comparative studies of histology, enzyme function, and gene expression coupled with respiratory and cardiovascular experiments on Andean ducks. We are looking for a second postdoc with a background in population genetics and an interest in applying NGS techniques such as sequence capture and RAD-Seq to population genomics studies of hemoglobin and other genes in pathways involved with responses to hypoxia. Travel to the collaborating labs in Canada and fieldwork at high-altitude sites will be required for the first position. Familiarity with DNA sequencing and bioinformatics workflows and pipelines is essential for the second position. Although many samples required for these studies have been collected, it would be useful for one or both finalists to have experience preparing specimens for museum archival and histological and genomics applications. Spanish speaking/writing skills also would be helpful.

The anticipated duration of each position is two years with a starting salary of $39,264 to 47,820 (depending on years of post-PhD experience) plus a benefits package.

Review of applications will begin 15 March 2014.

Individuals applying for these positions should have earned their PhD by August 2014 and should send (to the email address below) a single PDF file containing (1) a cover letter with a statement of background and research interests identifying one or the other position, (2) a curriculum vitae, and (3) names and contacts for three references.

Dr. Kevin McCracken Department of Biology & Rosenstiel School of Marine and Atmospheric Sciences University of Miami Coral Gables, FL 33146, U.S.A. kmccrack@bio.miami.edu

http://www.bio.miami.edu/mccracken/ Kevin G. McCracken Kushlan Chair in Waterbird Biology & Conservation Department of Biology & Rosenstiel School of Marine and Atmospheric Sciences University of Miami Coral Gables, FL 33146, U.S.A.

218A Cox Annex (Biology)/284 SLAB (RSMAS)

Tel. +1 (305) 284-9058 (Biology) Tel. +1 (305) 421-4738 (RSMAS)

email: kmccrack@bio.miami.edu

Kevin McCracken <kmccrack@bio.miami.edu>

UNAM Mexico Bioinformatics

We have an opening for a postdoctoral position at the Instituto de Ecologa, UNAM, Mxico, which is granted based on academic merits and Curriculum vitae among a pool of candidates.

We are seeking for a candidate with knowledge and skills in Bioinformatics, in particular for the analyses of genomic (SNPs) data. The candidate will work in the lab of Dra. Ella Vzquez-Domnguez. In general, we work with population and landscape genetics, phylogeography and conservation of vertebrate species. The specific projects we are now developing that include SNPs data analyses involve reptile species (e.g. turtles) but will grow to more species. Projects include landscape genetics and adaptation questions, to be evaluated within a genomics framework.

The successful candidate will play a key role in the generation and analysis SNPs, but also: 1) participate in field work within Mexico; 2) help graduate students with software and analyses; 3) give a seminar for the Institutes community, 4) help organize and participate in Bioinformatics courses or workshops for genetic data analyses.

The postdoctoral scholarship is a UNAM grant, with a salary of approximately $1,500 US dlls per month, plus medical insurance.

Candidates need fulfill the following:

1. The postdoctoral position should start from September 1st, for a year with possibility of renewal for a second year pending on results. It can start later than September if needed, but not later than November 1st.

2, The candidate must have obtained his/her PhD degree no more than three years before the starting date (i.e. if starting on 1 September, PhD must have been obtained on 30 August 2011 the latest).

3. The candidate should not be older than 36 years at the starting date (1 September or so)

4. Should have proof of experience with published work in scientific journals (this is the most important evaluation criterion)

5. Communication skills in Spanish

Applications must include a complete CV, a pdf of the PhD grade, pdf of the front page of passport (if not of Mexican nationality), pdf of birth certificate, a cover letter briefly outlining the candidate's fit to

the position and contact information for three references.

All information may be sent directly to Dra. Ella Vzquez-Domnguez at evazquez@ecologia.unam.mx, with a deadline of 21 February.

Dra. Ella Vzquez Domnguez

Instituto de Ecologa, UNAM Ap. Postal 70-275 Ciudad Universitaria Mxico DF 04510 Mxico Tel +5255 5622 9015 Fax +5255 5616 1976 Email: evazquez@ecologia.unam.mx http://-web.ecologia.unam.mx/laboratorios/evazquez/ Ella Vazquez <evazquez@ecologia.unam.mx>

UNAM Mexico PlantEvolBiol

POSTDOC POSITION IN PLANT EVOLUTIONARY BIOLOGY

There is an opening for a postdoctoral position at the Instituto de Biología, of the Universidad Nacional Autónoma de México, Mexico City, in the lab of Dr. Susana Magallón

The main research topic in our lab is plant macroevolution, investigated in a phylogenetic context. We seek candidates with bioinformatic abilities in phylogenetic, evolutionary and comparative biology; as well as knowledge of plant biology and/or the fossil record. The research project on which the successful candidate will work is part of an ongoing study on the timing and rate of evolution of flowering plants, with a special focus on the effect of differential use of fossil calibrations, and of alternative molecular clock methods. The successful candidate will play a key role in conducting molecular clock and comparative biology analyses; and contribute to teach these methods to graduate students.

The postdoctoral position will start on September 1st, 2014, for a one-year period. There is the possibility to renew for a second year, on the basis of obtained results.

The position is funded by the Postdoctoral Fellowship Program of the Coordination for Scientific Research, Universidad Nacional Autónoma de México. It is granted on the basis of academic merits, CV and publication record, among a pool of candidates.

Candidates should: 1. Have obtained his/her PhD de-

gree by the date of hire (September 1st, 2014), and no earlier than 3 years previous to the date of hire. 2. Be 36 years old or younger by the date of hire. 3. Have experience publishing scientific papers. 4. Proficiency in Spanish is highly desirable.

To apply, please submit: 1. An application letter including research interests and goals, and suitability for the proposed research topic. 2. A full CV. 3. PDFs of publications. 4. Names and contact information of two potential academic references.

Inquiries and application materials should be submitted to: Dr. Susana Magallón: s.magallon@ib.unam.mx Deadline: March 3rd, 2014

Dr. Susana Magallón Instituto de Biología, Universidad Nacional Autónoma de México s.magallon@ib.unam.mx (52-55) 5622-9087 http://www.ib.unam.mx/directorio/101 s.magallon@ib.unam.mx

UNESPBrazil Metagenomics AmphibianConservation

Postdoctoral Researcher in Metagenomic Approaches in Amphibian Conservation

A postdoctoral position is available in Célio Haddad's laboratory, Department of Zoology, UNESP Rio Claro, Brazil, and in the Zamudio laboratory, Department of Ecology and Evolutionary Biology, Cornell University. This position is funded by a CNPq grant to use eDNA for the detection of rare and/or endangered anuran species in the Atlantic Coastal Forest of Brazil using metagenomic surveys of localities of known stable and declined amphibian populations, with the goal of detecting the presence of endangered taxa and contributing to conservation efforts.

The primary responsibilities of this position include 1) conducting field and laboratory research to detect amphibian taxa and quantify populations that have suffered declines, 2) overseeing development of field and lab sampling protocols and downstream bioinformatic analyses of data, 3) analyzing data and writing manuscripts, 4) contributing to grant proposals for future work, and 5) contributing to mentoring and coordination of projects of graduate and undergraduate students involved in research.

The post-doc can be of any nationality, but will reside primarily in Haddad's laboratory, Department of Zoology, UNESP Rio Claro, São Paulo, Brazil, but will be active and travel across laboratories to integrate the comparative metagenomic data for the project.

For additional information about this and other research programs ongoing in our laboratories please visit our web sites at http://www.eeb.cornell.edu/zamudio/-KZ_home/=0Ahttp://labherpetorc.blogspot.com.br/-p/celio-f-b-haddad.html

* Qualifications * Required qualifications include a Ph.D. in evolution, molecular biology, or related field; demonstration of molecular laboratory experience with genetic techniques (DNA extraction, genomic library prep, analyses); the ability to organize and lead field efforts in a foreign country (monthly sampling in Brazil); strong writing skills; and the ability to work independently. Candidates experienced working with genomic data, and a working knowledge of Portuguese will be preferred.

* Terms of Appointment * Monthly salary is R$ 4,100 (annual R$ 49,200), following CNPq payscale for "Bolsa Pos-Doutorado Junior". Funds are available for one year, and renewable for additional years pending satisfactory progress.

* Applications * To apply, please send cover letter, CV, a statement of research interests/experiences, and names and contact information for three references that are familiar with your work. Applications should be in PDF format, e-mailed to Kelly Zamudio (krz2@cornell.edu) and Célio Haddad (haddad1000@gmail.com)

Position is available starting August 2014, starting time is flexible. Review of applications will begin Jan 15, 2014, and continue until suitable candidate is found.

Pós-Doutorado em Abordagens Mategenômicas para a Conservação de Anfíbios Uma vaga de pós-doutorado está disponível no laboratório do Dr. Célio Haddad, Departamento de Zoologia, UNESP de Rio Claro, São Paulo, Brasil e no laboratório da Dra. Kelly Zamudio, Department of Ecology and Evolutionary Biology, Cornell University. A vaga possui financiamento do CNPq para o uso de eDNA para a detecção de espécies de anuros raros e/ou ameaçados na Mata Atlântica do Brasil, usando amostragens metagenômicas de localidades com populações de anfíbios conhecidamente estáveis e em declínio, com o objetivo de detectar a presença de táxons ameaçados e contribuir para esforços conservacionistas.

As principais responsabilidades para essa vaga incluem 1) conduzir atividades em campo e laboratório para detectar anfíbios e quantificar populações que sofreram declínios, 2) supervisionar o desenvolvimen-

tos de protocolos de amostragens em campo e laboratório e realizar análises bioinformáticas dos dados, 3) analisar dados e redigir manuscritos, 4) contribuir na preparação de projetos para trabalhos futuros e 5) contribuir na orientação e coordenação de projetos de alunos de iniciação científica e pós-graduação envolvidos na pesquisa.

O candidato pode ser de qualquer nacionalidade, mas atuará principalmente no laboratório do Dr. Célio Haddad, Departamento de Zoologia, I.B., UNESP, Rio Claro, São Paulo, Brasil, devendo ser ativo e viajar pelos laboratórios para integrar os dados metagenômicos do projeto.

Para informações adicionais sobre esse e outros programas de pesquisa em andamento em nossos laboratórios, por favor visite nossos websites:

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UOttawa FungalComparativeGenomics

"The Corradi Lab is currently seeking a Postdoctoral Fellow in the field of Fungal Comparative and Population Genomics. The research will be led by Dr. Nicolas Corradi and carried out in a CIFAR (Canadian Institute for Advanced Research) - affiliated laboratory located in the Department of Biology of the University of Ottawa, Canada.

The position will be initially funded for one year, with the possibility of renewal for up to three years depending on performance. The candidate is expected to contribute to several ongoing projects that focus on the population genomics of two evolutionary unrelated groups of fungi: the Arbuscular Mycorrhizal Fungi (AMF) and the Microsporidia. Enquiries about specific projects can be sent to Dr. Nicolas Corradi (ncorradi@uottawa.ca).

Applicants are expected to have a background in comparative genomics or populations genomics. A strong experience in either Population Genetics, Environmental Genomics, Metagenomics, or ab-initio gene annotation and programming will be seen as an strong asset for the final selection of the candidate. Basic knowledge of Linux is required. A complete application package includes a CV, a one-page description of past research accomplishments and future goals, and the names and e-mail addresses of at least 2 references. Evaluation of applications starts immediately and will continue until a suitable candidate is found.

The University of Ottawa is a large, research-intensive university, hosting over 40.000 students and located in the downtown core area of Canada's capital city (http://www.science.uottawa.ca/fac/welcome.html). Ottawa is a vibrant, multicultural city with a very high quality of life (http://www.ottawatourism.ca/fr/)

Applications can be sent to Dr. Nicolas Corradi (ncorradi@uottawa.ca).

Representative publications:

- Riley R. et al. 2014. Extreme Diversification of the MATA-HMG Gene Family in the Plant - Associated Arbuscular Mycorrhizal Fungi. New Phytologist. 201: 254-268 - James T.Y et al. 2013. Shared signatures of parasitism and phylogenomics unite the Cryptomycota and Microsporidia. Current Biology. 23 (16), 1548-1553 - Tisserant E. et al. The arbuscular mycorrhizal Glomus genome provides insights into the evolution of the oldest plant symbiosis. Proceedings of the National Academy of Sciences - USA. 110 (50), 20117-20122R576-R577 - Pombert J.F. et al. 2012. Gain and loss of multiple functionally- related horizontally transferred genes in the reduced genomes of two microsporidian parasites. Proceedings of the National Academy of Sciences - USA 109(31):12638-43 - Selman M. et al. 2011. Acquisition of an animal gene by two microsporidia. 2011. Current Biology 21: R576-R577"

Thanks you very much for your help!

Best regard, Nicolas

Nicolas Corradi Professeur adjoint / Assistant Professor Boursier de l'Institut canadien en recherches avancées / Fellow of the Canadian Institute for Advanced Research Université d'Ottawa / University of Ottawa Département de biologie / Department of Biology Pavillon Gendron / Gendron Hall Bureau 257 / Room 257 30 Marie Curie Priv. Ottawa ON Canada K1N 6N5 Tel. +1 (613) 5625800 # 6563 Website:http://-mysite.science.uottawa.ca/ncorradi/index.html Nicolas Corradi <ncorradi@uottawa.ca>

UOxford MicrobiomeEvolution

Job: Postdoctoral Research Assistant

Salary: Grade 7: £29,837 - £36,661 p.a. An enthusiastic, dedicated individual is sought for an 18-month John Fell-funded project that will explore the evolutionary processes underlying microbiome-mediated protection against parasites.

The Postdoc will join the research group of Dr Kayla King in the Department of Zoology, University of Oxford.

The microbiome is an important determinant of host susceptibility to parasites. Microbial 'protection' against infection has been observed widely across animal species and at the plant root/soil interface. Using C. elegans and bacteria in the lab, this project will explore the potential for coevolutionary interactions between hosts and bacteria to drive the evolution of bacteria-mediated defence against parasites. This project will also elucidate the host- and bacteria-related mechanisms underlying protection, and explore the spectrum of protection against different parasite genotypes and species.

The post combines laboratory work (experimental coevolution and bacteria performance assays) with genomic approaches to adaptation. We will require someone with an intense interest in evolutionary ecology of host-parasite interactions and a track record of work with laboratory components.

Some essential characteristics are:

- PhD/DPhil in evolutionary biology, microbiology, ecology or related field. - Having driven a leading-edge research project in evolutionary ecology as evidenced by primary-authored publication. - The ability to work with species interactions (host-parasite, host- mutualist) in lab settings. - Considerable experience in maintaining bacteria and/or C. elegans, in terms of daily culturing of organisms and managing a medium term experiment.

Only applications made online before 12.00 midday on 24 March 2014 will be considered. You will be required to upload your CV and supporting statement. See http://www.zoo.ox.ac.uk/jobs/list#job_112004 Please send enquiries to kayla.king@zoo.ox.ac.uk

Dr. Kayla King University of Oxford Department of Zoology Tinbergen Building, South Parks Road Oxford OX1 3PS

Tel: +44 (0)1865 2 81988

http://www.zoo.ox.ac.uk/people/view/king_kc.htm https://sites.google.com/site/kckingevolution/ Kayla King <kayla.king@zoo.ox.ac.uk>

USalamanca Bioinformatics

http://bioinformatica.vil.usal.es/postdoctoral-offer-at-the-university-of-salamanca-spain/ Thanks Mike Thon

Michael Thon Professor Centro Hispano-Luso de Investigaciones Agrarias (CIALE) University of Salamanca Calle Del Duero, 12 37185 Villamayor, Spain

Michael Thon <mthon@usal.es>

UUlm Germany PopulationGenomicsBioinformatics

Institute of Experimental Ecology, Research Group Conservation Genomics & EcoHealth, University of Ulm offers a

Postdoctoral Research Position in Population Genomics/Bioinformatics (Scientific Assistant Position, Wissenschaftliche Mitarbeiterstelle, TV-L 13)

Our research focusses at the interface of Evolutionary Ecology and Functional Biodiversity research. We aim to understand the fundamental ecological, behavioral and immunogenetic (MHC)/genomic factors, as well as population health related processes that drive adaptive evolution and ensure ecosystem functions.

We are seeking a highly motivated postdoctoral researcher with a strong background in Population Genomics, Evolutionary Ecology and Bioinformatics. Successful candidates have their research focus preferably in areas such as landscape genetics or parasitology (microbiome analyses) in an ecological, conservation or evolutionary context. The scientific assistant is expected to develop his or her own research agenda while also significantly contributing to the bioinformatic processing of large data sets obtained by next-generation sequencing in ongoing projects of the department. Thus, practical experience with NGS technologies and platforms (e.g. IlluminaC), with the Linux/Unix environment, scripting languages such as Python or Pearl, database design and querying (SQL), as well as R-programming are required.

The ideal candidate will be able to work both independently and as part of a multidisciplinary team. (S)he should have an excellent publication record, experience with grant acquisition and teaching as well as good English communication skills. The candidate is encouraged to apply for grants in Germany or abroad. The position comes with a teaching requirement of 4h per week during the semester. Teaching bachelor students has to be performed in German. Consequently, willingness to learn German is required.

The contract shall start as early as possible. The position will initially be restricted to two years, with possible extension to up to six years. The possibility for "Habilitation" is given. The University of Ulm advocates gender equality. Women are therefore strongly encouraged to apply. Equally qualified handicapped applicants will be given preference.

Ulm is a city of 130,000 inhabitants at the Danube river within an one hour train ride to Munich. It has an attractive historical centre and easy access to the mountains for hiking and other outdoor activities. It offers a high standard of living and is very well connected to other cities.

Qualified candidates should send a curriculum vitae, a list of publications, a description of research interests and future work including relevant skills and experiences (3-5 pages), and names with email addresses of two referees by email as a single PDF file to Prof. Dr. Simone Sommer. Application deadline is the 20th of February 2014 and interviews will be preferably set for the end of March or early April.

Prof. Dr. Simone Sommer

University of Ulm, Institute of Experimental Ecology, Albert-Einstein Allee 11, D-89069 Ulm Tel.: 0049-731-5022660, Tel.: 0049-731-5022661 (Secretary) Simone.Sommer@uni-ulm.de

Prof. Dr. Simone Sommer

University of Ulm Institute of Experimental Ecology Albert-Einstein Allee 11 D-89069 Ulm

Tel.: 0049-731-5022660 Tel.: 0049-731-5022661 (Secretary) Fax: 0049-731-5022683

Simone.Sommer@uni-ulm.de

"Prof. Dr. Simone Sommer" <simone.sommer@uni-ulm.de>

UniversidaddelosAndes 2 Teaching

The Department of Biological Sciences (DCB) at the Universidad de los Andes (Bogot, Colombia) seeks to fill two positions for teaching postdoctoral researchers. The selected candidates will serve as full-time visiting professors with a contract for 12 months (renewable for a second year) starting July 28th, 2014. Applicants must possess a Ph.D. before the starting date. Preferences will be given to candidates interested in affiliating herself or himself with one or more existing research laboratories within the DCB (see http://-cienciasbiologicas.uniandes.edu.co/).

We seek candidates interested in developing and promoting new research perspectives within the DCB via collaboration with one or more professors. The selected candidates should also be willing to act as an advisor or mentor to undergraduate and graduate students. Teaching responsibilities include 1-2 undergraduate non-majors course in ecology or cellular biology (depending on the expertise of the postdoc and the Department's needs) each semester. The selected candidate may choose to offer or participate in additional courses in areas of his or her interest. This is an ideal position for those interested in acquiring skills and gaining experience in university-level teaching while conducting research activities.

The teaching postdoc position is guaranteed for the first year, with an optional second year conditional upon satisfactory performance and available funding.

Interested persons should send a CV, two recommendation letters, and a cover letter that outlines the applicants interest in this position and identifies potential research topics to be pursued at Universidad de los Andes and potential advisors and collaborators within the DCB. Application materials should be submitted electronically by March 10, 2014, to the email address below.

Comit de Contrataciones Profesorales Departamento de Ciencias Biolgicas ccontbio@uniandes.edu.co

Further inquiries may be directed to:

Andrew J. Crawford Associate Professor and postdoctoral committee chair Department of Biological Sciences, Universidad de los Andes Tel. +57 1 339-4949 ext 3270 Email: aj.crawford244@uniandes.edu.co

Carlos Daniel Cadena Ordonez <ccadena@uniandes.edu.co>

VillefrancheSurMer France Bioinformatics

The Tiozzo Lab (http://biodev.obs-vlfr.fr/ ~ tiozzo/-tiozzo-lab/index.html) is seeking a creative, skilled and highly motivated bioinformatician for an one year contract as post-doc or high-level technician. We do require strong experience with RNAseq and whole genome sequence data. Applicants should be also proficient in programming (R, Python, Perl, Java), have knowledge in statistics and have analytical and computational skills proven by an excellent publication record or by reference letters. Familiarity with mathematical modeling would be a plus. Applicants should be proficient in English; French knowledge is preferable but not required.

The hired postdoctoral fellows/high-level technician will work at the Observatoire Oceanologique du Villefranche sur Mer (http://www.obs-vlfr.fr/) in a highly international environment.

Contact Stefano Tiozzo (tiozzo@obs-vlfr.fr) for more information, and to apply, please send a single PDF file that contains a cover letter, full C.V., and contact information for three references. Start: As soon as possible.

Stefano Tiozzo, PhD Regeneration Team Villefranche sur mer Developmental Biology Laboratory (VDBL) (UMR7009 CNRS/UPMC) Observatoire Océanologique de Villefranche-sur-Mer Ph:+33 4 93 76 39 78 Fax:+33 4 93 76 37 92 web: http://biodev.obs-vlfr.fr/fr/equipes_de_recherche/-regeneration_et_pluripotence.html tiozzo <tiozzo@obs-vlfr.fr>

WestVirginiaU ComputationalGenomics

Post-Doctoral Research Associate Positions Available in Computational Genomics

West Virginia University, Morgantown, WV USA.

Two 2-year postdoctoral positions are available immediately to conduct bioinformatic analyses. Opportunities are available in 1) an NSF-funded project to study the genetic architecture of tillering in sorghum, as well as 2) a USDA funded project to study heterosis in Populus. For the sorghum project, the researcher will participate in the analysis of fully sequenced sorghum recombinant inbred lines (RILs) and in RNA-seq analysis from multiple tissues to investigate the structural and functional evolution of tillering in panicoid grasses. This position is based in the lab of Dr. Jennifer Hawkins (http://hawkins.bio.wvu.edu). The Populus project will involve design and analysis of assays for large-scale structural polymorphisms. This position is based in the lab of Dr. Stephen DiFazio (http://www.as.wvu.edu/ ~ sdifazio). The positions are located in the Department of Biology at West Virginia University's main campus in Morgantown. The post-docs will be part of a collaborative team of geneticists and bioinformaticists located across different institutions nationally. Requirements: A PhD in bioinformatics, computer science, genetics or other relevant topic; a strong background in statistics; proficient in the Linux environment and one or more scripting languages; experience with the analysis of large biological data sets. Individuals interested in the position should send (1) a cover letter summarizing their research interests and expertise relevant to the project (2) a Curriculum Vitae, and (3) the names and contact information of at least three people who can provide recommendations. The application should be sent as a single pdf file to Dr. Hawkins (Jennifer.hawkins@mail.wvu.edu). Salary will be commensurate with appropriate experience and the position includes health and retirement benefits. Review of applications will begin immediately and will continue until a suitable applicant has been found. West Virginia University is an equal opportunity, affirmative action employer.

Jennifer Hawkins <jshawkins@mix.wvu.edu>

WorkshopsCourses

CostaRica ConservationGenetics May24-Jun3 reminder

Hello all,

I wanted to send out a reminder of CONSERVATION GENETICS, an upcoming graduate-level 2.0 credit specialty course which will be taught by Dr. Jim Hamrick (University of Georgia), Dr. Fred Allendorf (University of Montana), and Dr. Erick Fuchs (University of Costa Rica) in Costa Rica from MAY 24 TO JUNE 8, 2014. This course may be of interest to students in various departments and interdisciplinary programs at your institutions. Topics covered include: measurement of genetic diversity and genetic structure, phylogeography, application of molecular data to taxonomic questions, gene flow, mating systems, effective population size estimates, and the application of genetic information for the management and restoration of disturbed landscapes. Your circulation of this material among graduate students would be greatly appreciated.

Application deadline is February 3.

Official Course announcement [1] http://bit.ly/-13AeiZC

Many thanks!

Andres S.

Andres Santana <andres.santana@ots.ac.cr>

Florida EvolutionaryGenomics

Dear colleagues -

Are any of you interested in learning RNAseq, 2b-RAD, qPCR or meta-barcoding in the beautiful Florida Keys this summer?

Back by popular demand, we are pleased to announce that in June-July 2014 we will teach a series of week-long workshops on Methods in Ecological and Evolutionary Genomics at the Mote Tropical Research Laboratory, Florida Keys. We sending out a survey to determine which courses will gather the most interest since we can only offer three (~1 week long) courses.

1. tag-based RNA-seq 2. 2b-RAD 3. quantitative PCR 4. Meta-barcoding with amplicon sequencing

If you are interested in participating in these workshops, please respond to this survey

http://www.surveymonkey.com/s/5ftx7rs

See the links below for examples of manuscripts produced from previous workshops, with workshop participants as co-authors:

http://www.plosone.org/article/-info%3Adoi%2F10.1371%2Fjournal.pone.0026914#pone-0026914-g005 http://onlinelibrary.wiley.com/doi/-10.1111/1755-0998.12218/full Keep in mind that each

workshop will be roughly $1,500 (depends on reagents, to be finalized), which includes accommodation but not food and transportation.

Please do not hesitate to contact us should you have any questions. Best regards,

Mikhail V. Matz: matz@utexas.edu Sarah W. Davies: daviessw@gmail.com Rachel M. Wright: rachel-wright8@gmail.com

matz@utexas.edu

Guangdong China SocialEvolution Jun29-Jul3

Workshop in Social Evolution Guangdong, China, 29 June ?C 3 July 2014

We are pleased to announce the *Postgraduate Training Workshop in Breeding System Evolution* in Guangdong, China, June 29 - July 3, 2014. The principal goal of this workshop is to understand how conflict and cooperation drive breeding system evolution in various animals. This goal will be achieved by discussing functions and mechanisms of breeding systems, incorporating approaches from behavioural ecology, genetics, and evolutionary biology as well as evaluating state-of-the-art research tools such as comparative phylogenetic analyses and genomics.

Please see further details below, or contact one of the organisers

Dr Yang Liu, email: liuy353@mail.sysu.edu.cn

Professor Tamas Szekely, email: T.Szekely@bath.ac.uk

—

Background

Social behaviour that involves interactions among conspecifics is a basic feature in the lives of animals and humans. In the context of breeding systems, the interests of males and females are usually different and this can lead conflicts between individuals. However, selfish males and female can be cooperative. Thus both conflict and cooperation drive much of social behaviour including breeding systems. Understanding breeding systems is a source of constant fascination to many biologists, social scientists and bio-medical scientists. Purpose of the workshop

The main goals of this workshop are to

- learn modern concepts and recent research progress in breeding system evolution;

- acquire knowledge and advanced skills in studying breeding system evolution using a variety of animal systems including insects, fishes, birds and mammals;

- provide opportunities for students to interact with some of international leading researchers in the fields;

- designate intense training workshops to learn key skills in social behaviour research;

- develop critical thinking and aptitude to phrase scientific ideas;

- establish contacts between Chinese and international students;

- discuss joint publicatitons and research grants between workshop participants. Major activities during the Workshop

- Research seminars by Invited Speakers

- Working groups of 6-8 students each lead by an Invited Speaker to discuss specific topics in sex roles, mating systems, sexual selection and parental care

- Faculty members will assist the students to make intensive discussion centered around topical areas of breeding system evolution

- Presentation of students in the forms of talks or posters

- Student presentation will be informally evaluated and comments provided by the faculty members

- A welcome reception (cultural evening) and a farewell party

- Field excursion at Heishiding Nature Reserve after the Workshop Confirmed invited speaks include

- Prof Gerald Heckel (University of Bern, Switzerland)

- Prof Hans Hofmann (The University of Texas at Austin, USA)

- Dr Michael Huffman (Kyoto University, Japan)

- Prof Michael Jennions (Australian National University, Australia)

- Dr Hope Klug (University of Tennessee at Chattanooga, USA)

- Prof Dingzhen Liu (Beijing Normal University, China)

- Prof Tamas Szekely (University of Bath, UK) Program

29 June ?C 3 July 2014 (Sunday to Thursday). The Workshop will start on Sunday evening with registration, welcome reception and a social event, and will

end Thursday morning. The academic events will take place between Monday to Wednesday all day. A finalized timetable will be annouced in due course. Venue

The Workshop will be based at the Field Station of Sun Yat-Sen University inside Heishiding Nature Reserve, northwest Guangdong (see

https://www.google.com/maps?t=-m&ll#.459874,111.896602&z&q=-Heishiding+Nature+Reserve+%E9%BB%91%E7%9F%B3%E9%A1%B6%E8%87%AA%E7%84%B6%E4%BF%9D%E6%8A%A
0xd1e61006590fc804&output=classic).

The Reserve covers about 4000 ha of evergreen broad-leaved forest, and it is designated as a one of the reference location of CTFS (*Center for Tropical Forest Science*) global network.

Host

School of Life Sciences, Sun Yat-sen University

Co-host

Guangdong Key Laboratory for Biodiversity Dynamics and Conservation

School of Sociology and Anthropology, Sun Yat-sen University

The Biology Museum, Sun Yat-sen University

Organizers

- Dr. Yang Liu, School of Life Sciences, Sun Yat-sen University, China

- Prof. Tamas Szekely, University of Bath, UK

- Prof. Hong Pang, School of Life Sciences, Sun Yat-sen University, China

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

HCMR Crete MicrobialDiversity May27-Jun6

Micro B3 Summer School in Crete 2014: from sampling to analyzing microbial diversity & function

This summer school is organized as a two-week interactive training *from Tuesday 27 May to Friday 6 June 2014* at the HCMR on Crete, Greece. Every day a high-level lecturer will share expertise with the students, focusing on standards & methods, with theory in the morning and interactive practical work in the afternoon.

The summer school focuses on *preparing* and *planning* integrated *sampling work* and *data flows*, taking into account some legal aspects, with a focus on *bioinformatic* and *oceanographic tools*. The group will perform data and sample management based on the use of enrichments for analyses during the course, on existing (OSD) data sets and the OSD Handbook. Trainees will learn how to decide on using methods and standards to address their research questions in the fields of plankton diversity, ecology and function, including biotechnological applications.

A small boat trip will be planned, log sheets & standardized sampling methods tested on board and in the lab, and samples prepared for sequencing. Also the group will learn about Access and Benefit Sharing aspects, documentation and archiving. Finally, the use of selected datasets for ecological modelling will be explored.

The number of participants is limited to 25 and the application period will close on *15 March 2014*.

Information: http://www.microb3.eu/events/-workshops/micro-b3-summer-school-crete Katerina Vasileiadou Institute of Marine Biology, Biotechnology and Aquaculture Hellenic Centre for Marine Research (HCMR) P.O. Box 2214 71003 Heraklion Crete Greece

Tel: +30 2810 337742 Fax: +30 2810 337870 email: kvasileiadou@hcmr.gr

Hellenic Center for Marine Research

Katerina Vasileiadou <kvasileiadou@hcmr.gr>

HarvardU PlantMorphology Jun9-20

APPLICATIONS DUE MARCH 1, 2014

Dear Colleagues,

Back by popular demand! Plant Morphology: Linking Phenotype to Development will be taught by Peter Endress (University of Zurich) and Pamela Diggle (University of Connecticut) June 9-20, 2014, at the Arnold Arboretum of Harvard University. Registration is now open.

This is an intensive two-week laboratory and lecture

course for advanced undergraduates, graduate students, and postdoctoral fellows that will cover the fundamental principles of plant form, focusing on developmental dynamics, evolutionary diversification, and ecological and physiological function. The course will provide a critical foundation for research in developmental genetics, systematics, physiology, and more. Detailed information is below.

Please bring this course to the attention of your students and post docs!!

Best wishes,

Pamela Diggle, Peter Endress and William (Ned) Friedman

Plant Morphology: Linking Phenotype to Development, June 9 - 20, 2014

With the opportunity to bring molecular genetic and genomic tools to almost any clade of plants, a key challenge will be to link comparative developmental genetics to existing bodies of knowledge; notably the two hundred year legacy of comparative developmental morphology. This integration is critical as the phylogenetic, structural, and ecological breadth of plant taxa open to study expands, and the sophistication of potential questions increases in complexity. This course will provide vital analytical tools central to understanding the developmental bases for structural and functional diversity. Summer courses in organismic plant biology at the Arnold Arboretum of Harvard University bring world-class faculty and a world-class living collection together to enable students from around the world to know the phenotype.

In 2014, Plant Morphology: Linking Phenotype to Development, an intensive two-week laboratory and lecture course for advanced undergraduates, graduate students, and postdoctoral fellows will cover the fundamental principles of plant form, focusing on developmental dynamics, evolutionary diversification, and ecological and physiological function. Students will be presented with the conceptual and analytical tools necessary to interpret the vast array of morphologies that exist among plants. Professors Pamela Diggle (University of Colorado) and Peter Endress (University of Zurich) will serve as the instructors. This course is limited to 12 students.

To apply: please go to http://arboretum.harvard.edu/-education/plant-morphology-linking-phenotype-to-development/ Costs: Each student will receive a travel stipend of up to $500; meals and dormitory lodging will be provided for all participants.

Topics covered:

Week 1: Vegetative morphology including embryogenesis and establishment of the basic body plan, modes of germination and establishment, concepts of juvenile and adult phases, phyllotaxy, shoot longitudinal symmetry (including heteroblasty), axis thickening, shoot transectional symmetry, branching, structural and functional specialization of shoot branches, leaf development, leaf lateral and longitudinal symmetry, structural and functional specialization of leaves, root development, structural and functional specialization of roots, plant architecture, evo-devo.

Saturday and Sunday will involve tours of the living collections of the Arnold Arboretum and opportunities to explore the Boston area.

Week 2: Reproductive morphology including inflorescence and flower structure, branching patterns and other features of inflorescences, flower organization and architecture, flower development, phyllotaxy and symmetry, organs of the perianth, androecium and gynoecium, synorganization of floral organs, angiosperm flower diversity, flowers of ?basal? angiosperms, monocots, eudicots, the most complex flowers (orchids, asclepiads), structural solutions of functional constraints in reproductive biology, evolutionary trends in flowers.

For additional information contact Pamela Diggle: pamela.diggle@uconn.edu<mailto:pamela.diggle@uconn.edu>

Pamela Diggle

Professor Department of Ecology and Evolutionary Biology University of Connecticut

pamela.diggle@uconn.edu

HarvardU PlantSystematics Jun9-20

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For additional information contact Pamela Diggle: pamela.diggle@uconn.edu

Pamela Diggle

Professor Department of Ecology and Evolutionary Biology University of Connecticut

pamela.diggle@uconn.edu

Jena Germany PopulationGeneticsComputation Apr4

The community of researchers on the theory of Evolutionary Computation (EC, a branch of computer science) reaches out to researchers working on population genetics to inform about each other's work in a semi-formal workshop (no registration fee). See below for the official call for participation.

===Call for Participation

The 8th Workshop on Theory of Randomized Search Heuristic (ThRaSH 2014) 4-5 April 2014, Jena, Germany

http://www.theinf.uni-jena.de/thrash contact: timo.koetzing@uni-jena.de

Deadline for abstract submission: 2 March, 2014 Notification about accepted talks: 5 March, 2014 Deadline for registration: 16 March, 2014

Abstract submission and registration (no fee) by e-mail to timo.koetzing@uni-jena.de

Theory of randomized search heuristics continues to be a lively, exciting, and important field of research. The ThRaSH workshop series provides a forum to discuss new trends and ideas. It aims at stimulating interactions within the research field and between people from different disciplines. The eighth workshop of the series will take place in Jena, Germany on the 4th and 5th of April, 2013; details about the venue as well as all other information pertaining to the workshop can be found on the workshop homepage http://www.theinf.uni-jena.de/thrash . The main topics of ThRaSH are the theory of continuous and discrete optimization by evolutionary computation. In addition to this, this year's ThRaSH also opens to population genetics, a branch of theoretical biology. In the past decade, evolutionary computation and population genetics have studied very similar concepts independently and with orthogonal approaches. We want to bring together researchers working in both biological and artificial evolution, inform about each others work and give directions for future research.

We invite researchers working on theoretical aspects of randomized search heuristics and/or population genetics who would like to present and discuss their work to submit a short abstract (a single page, either in plain text or pdf). As always at ThRaSH, the primary focus is on discussing recent ideas and detecting challenging topics for future work, rather than on the presentation of final results.

Registration for the workshop is free. However, we ask participants to register by the registration deadline. Please indicate with your registration if your are a vegetarian to allow for appropriate lunch and dinner options.

Tobias Friedrich and Timo Kötzing (Friedrich-Schiller-Universität Jena)

timo.koetzing@gmail.com

Leipzig Biodiversity CallProposals

sDiv, the Synthesis centre for Biodiversity Sciences (www.idiv.de/sdiv), a unit of the German Centre for Integrative Biodiversity Research (iDiv) Halle-Jena-Leipzig herewith announces the 2nd call for workshops.

The submission deadline is 1st of April 2014.

You can find all relevant information here: http://www.idiv.de/sdiv/calls Please spread this announcement among your colleagues and networks.

Don't hesitate to contact me (marten.winter@idiv.de) for any questions.

Thanks a lot!

With best regards from sunny Leipzig

sMarten Winter

Dr. Marten Winter Scientific Coordinator / Wissenschaftlicher Koordinator Synthesis Centre for Biodiversity Sciences - sDiv

Phone +49(0)341-97-33129 Fax +49(0)341-97-39358 Email marten.winter@idiv.de

Homepage: http://www.idiv.de/sdiv/coordinator/vcard_item_86429/detail German Centre for Integrative Biodiversity Research (iDiv) Halle-Jena-Leipzig Deutscher Platz 5e 04103 Leipzig

Germany iDiv ist ein Forschungszentrum der Deutschen Forschungsgemeinschaft (DFG). Es ist eine zentrale Einrichtung der Universität Leipzig im Sinne des §92 Abs. 1 SächsHSFG und wird zusammen mit der Martin-Luther-Universität Halle-Wittenberg, der Friedrich-Schiller-Universität Jena sowie dem Helmholtz-Zentrum für Umweltforschung (UFZ) betrieben. Sieben außeruniversitäre Einrichtungen unterstützen iDiv finanziell sowie durch ihre Expertise: das Max-Planck-Institut für Biogeochemie (MPI BGC), das Max-Planck-Institut für chemische Ökologie (MPI CE), das Max-Planck-Institut für evolutionäre Anthropologie (MPI EVA), das Leibniz-Institut Deutsche Sammlung von Mikroorganismen und Zellkulturen (DSMZ), das Leibniz-Institut für Pflanzenbiochemie (IPB), das Leibnitz-Institut für Pflanzengenetik und Kulturpflanzenforschung (IPK) und das Leibniz-Institut Senckenberg Museum für Naturkunde Görlitz (SMNG). USt-IdNr. DE 141510383 and

Marten Winter <marten.winter@idiv.de>

Montreal PopulationGenetics May26-30 2

The 7th annual Montreal Spring School of Population Genomics and Genetic Epidemiology

May 26 to 30, 2014 Montreal, Canada

This workshop provides training in the rapidly de-

veloping disciplines of genetic epidemiology, human evolutionary genetics, population genomics and bioinformatics.

The training will be based on real-data examples from the instructors laboratories.

** For the most recent information and to register, please visit Our Web Site (http://-montrealspringschool.us6.list-manage1.com)

If you think you know someone who may be interested in this workshop, please forward this message and/or download the poster (http://-montrealspringschool.us6.list-manage.com) for display (also found on the home page of our web site). Thank you!

Gillian Greig, Coordinator, Montreal Spring School www.montrealspringschool.ca Montreal Spring School <montrealspringschool@gmail.com>

OhioStateU Phrapl ApproxLikelihoodSoftware May28-30

Phrapl Workshop Announcement

In this workshop, Brian O'Meara and Bryan Carstens introduce students to a new software package (PHRAPL) that implements phylogeographic inference using approximated likelihoods. PHRAPL will allow users to calculate the probability of a set of models given the data [pr(Mi|D)] so that an assessment can be made regarding which of these models is the most appropriate for their empirical system. PHRAPL employs a heuristic exploration of model space and returns approximated likelihoods of a set of models given the data, where each model consists of a delimited species tree and the parameters (such as gene flow, population size and rate of change) that are required to describe the history of divergence. Students will be introduced to basic probability theory, information theory and coalescent modeling. They will use/learn R functions, analyze their data using PHRAPL, and interpret the results. In addition, approaches to collecting phylogeographic data using next-generation sequencing will be discussed.

The workshop will occur at the Mathematical Biosciences Institute on the main campus of The Ohio State University. The workshop will begin at 8:00 am on May 28th, and last until 12:00 pm on May 30th. Travel stipends are available for a dozen students. To apply, please see http://carstenslab.org.ohio-state.edu/OSU/phrapl_workshop.html for more information.

Bryan Carstens

Bryan C. Carstens Department of Evolution, Ecology, & Organismal Biology The Ohio State University 318 W. 12th Avenue Columbus, OH 43210-1293

web: http://carstenslab.org.ohio-state.edu/OSU/-Carstens_Lab.html blog: https://u.osu.edu/-carstens.12/ publications: http://carstenslab.org.ohio-state.edu/OSU/Publications.html spedeSTEM: http://spedestem.asc.ohio-state.edu/ skype: bryan_carstens office: 614.292.6587 cell: 734.474.8527 fax: 614.292.2030

Bryan Carstens <bryan.c.carstens@gmail.com>

Sicily SystemsBiology Jun15-19

Call for Participation (apologies for multiple copies)

Synthetic and Systems Biology Summer School: Biology meets Engineering and Computer Science Taormina - Sicily, Italy, June 15-19, 2014

http://www.taosciences.it/ssbss2014/ ssbss2014@dmi.unict.it

Application Deadline: February 15 2014

List of Speakers Uri Alon, Weizmann Institute of Science, Israel Jef Boeke, Johns Hopkins University, USA Jason Chin, MRC Laboratory of Molecular Biology, UK Virginia Cornish, Columbia University, USA Angela DePace, Harvard University, USA Paul Freemont, Imperial College London, UK Tanja Kortemme, University of California San Francisco, USA Giuseppe Nicosia, University of Catania, Italy Sven Panke, ETH, Switzerland Rahul Sarpeshkar, MIT, USA Giovanni Stracquadanio, Johns Hopkins University, USA Ron Weiss, MIT, USA

School Directors Jef Boeke, Johns Hopkins University, USA Giuseppe Nicosia, University of Catania, Italy Mario Pavone, University of Catania, Italy Giovanni Stracquadanio, Johns Hopkins University, USA

Short Talk and Poster Submission Students may submit a research abstract for presentation. School directors will review the abstracts and will recommend for

poster or short-oral presentation. Abstract should be submitted by February 15, 2014. The abstracts will be published on the electronic hands-out material of the summer school. ssbss2014@dmi.unict.it

Co-located Event: The 3rd International Synthetic Yeast Genome (Sc2.0) Meeting will be held in Taormina Friday June 20, 2014

cfp.ssbss2014@dmi.unict.it

SwissAlps EvolutionaryBiology Jun19-25

Evolutionary Biology Workshop in the Alps

19-25 June 2014, Arolla, Switzerland

Extended deadline: March 2.

Target participants: PhD students, advanced Master students

The main goals of this annual workshop, based on a concept developed by Stephen Stearns and John Maynard Smith, are to develop the following skills: - developing your scientific ideas through discussions in groups; - thinking critically and expressing oneself clearly; - turning a general idea into a research project; - writing a research proposal and defending it.

Faculty: Nina Wedell (University of Exeter, UK) Ulrich Mueller (University of Texas, Austin, TX) Tanja Schwander (University of Lausanne, Switzerland) John Pannell (University of Lausanne, Switzerland) Tadeusz Kawecki (University of Lausanne, Switzerland)

It is you, the students, who will be in charge in this course. You will be divided in groups of 4-5 students. In those groups, you will work on your ideas. You, as a group, will decide what the important open questions in broadly defined evolutionary biology are, you will choose one, and attempt to develop a proposal for a research project that will address it. The faculty will visit the groups during the discussions to answer your questions, provide coaching and give you feedback on your projects, but they will generally take the back seat. Additionally, the faculty will give talks about their research and be available for informal discussion with individual students. At the end you will present your projects to other participants, and we will party.

The workshop will take place in the 100-year old hotel Kurhaus http://www.hotel-kurhaus.arolla.com/, located in a small alpine village at 2000 m of altitude, which will allow you to focus on work while being able to enjoy the magnificent landscape and the Alpine flora.

3 ETSC credit points

Costs: CHF 610.- for room and board; there is no tuition fee.

To apply, send a single file (pdf or rtf) containing a short motivation letter, a cv, and the name of your scientific advisor to Caroline Betto-Colliard <ecologie-evolution@cuso.ch>, with Cc to tadeusz.kawecki@unil.ch .

Tadeusz J. Kawecki Associate Professor Department of Ecology and Evolution University of Lausanne Biophore, office 3111 CH 1015 Lausanne, Switzerland

tadeusz.kawecki@unil.ch

Toulouse EvolutionEconomics May22-23

Call for papers in evolutionary biology Poster session at the "2nd Toulouse Economics and Biology workshop" (May 22-23, 2014, Toulouse, France)

Confirmed speakers: Erol Akcay (Biology, University of Pennsylvania) Sam Bowles (Economics, Santa Fe Institute) David Cesarini (Economics, New York University) Andy Gardner (Biology, University of St Andrews) Michael Hochberg (Biology, Institut des Sciences de l'Evolution - Montpellier) Hillard Kaplan (Anthropology, University of New Mexico) Laurent Lehmann (Biology, University of Lausanne) Olof Leimar (Biology, Stockholm University) Bobbi Low (Biology, University of Michigan) Georg Nöldeke (Economics, University of Basel)

Submissions (abstract + C.V.) to the poster session should be sent to econbio_poster@iast.fr no later than March 15, 2014. A limited number of travel grants will be available. When submitting, please specify whether you are applying for a travel grant.

For more information, please visit: http://-www.iast.fr/event/2nd-toulouse-economics-and-biology-workshop

Ingela Alger <ingela.alger@gmail.com>

Tromso Norway DNA Metabarcoding Mar31-Apr5 REMINDER

Dear colleague,

I would like to wish you a happy new year and to remind you that the deadline for registering to the DNA metabarcoding spring school is the next Sunday.

Best regards

Eric Coissac

Registration deadline is 12 January 2014

DNA metabarcoding is a rapidly evolving method for assessing biodiversity from environmental DNA. It has a wide range of applications: biodiversity monitoring, animal diet assessment, reconstruction of paleo communities, among others. DNA metabarcoding relies on molecular techniques such as PCR and next generation sequencing, and requires bioinformatics and biostatistics competence to analyze sequencing results. This approach integrates several scientific areas and requires a broad range of skills, in addition to the classical ecological knowledge related to the considered research topic.

The DNA metabarcoding spring school is now in its third edition and this year it is co-organized by the metabarcoding.org team and the Research School in Biosystematics - ForBio in Tromsø, Norway. Also this year, the school is divided into two parts.

- The DNA metabarcoding spring school (31 March - 3 April 2014), that will be held during four days at the Skibotn Field Station, - A two-day workshop at the Tromsø University Museum that will follow the course (4 - 5 April 2014). Participants can register for both the school and workshop (25 places) or only for the workshop (no limit). To register for University of Tromsø ECTS (BIO-8001 registration form) or a ForBio course certificate stating the number of ECTS (no additional registration needed), participants have to attend both the school and the workshop. As part of the course program, each participant is required to (i) give a 12 minute talk about their research during the evening sessions of the school, and (ii) present a corresponding poster during the workshop.

Registration Registration deadline is 12 January 2014 This year the registration to the third DNA metabarcoding spring school is a two steps process.

- You need to be a ForBio member or associate. - Anyone can register as a ForBio associate. To register as a ForBio associate please visit the ForBio membership page - To become a ForBio member you must be registered as a PhD student or hired as a postdoctoral fellow at a Norwegian, Swedish, Danish, or Finnish university. - Now that you have a ForBio status (member or associate) you have to register to the school and/or the workshop itself by filling out the registration page.

All participants attending both the school and workshop can receive a ForBio course certificate stating the course description and number of ECTS earned (2 in this case). If you would like to receive University of Tromsø ECTS (2) instead of a ForBio course certificate, please feel out the BIO-8001 registration form and follow the submission instructions on it. If you have any questions about University of Tromsø registration, please contact Sergei Drovetski (sdrovetski@gmail.com).

For more information go to : http://-metabarcoding.org/spip.php?article66 or on the registration website : http://www.forbio.uio.no/-events/courses/2014/metabarcoding_workshop.html

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UBremen EvolutionStatistics Jun10-13

Workshop on Univariate Statistics in Ecology and Evolution Using R

Date: June 10 - 13, 2014

Place: University of Bremen

Application deadline: 25th of April, 2014

Data obtained in research in ecology and evolution are often not normally distributed. Within the workshop we will use the unifying concept of generalized linear models (GLM) to deal with such data. Besides short lectures, exercises will be offered using the open source software R.

*For further information please visit our website: * *https://sites.google.com/site/statisticsbremen/*

Topics covered: Linear Models, Generalized Linear Models (Poisson, Negative binomial, Gamma and Binomial distribution), Zero-inflated/-truncated Models, Generalized Linear Mixed Models

Thanks to the funding of the *Deutsche Zoologische Gesellschaft*, registration is free for all DZG members.

We hope to welcome you soon in Bremen,

the organizing committee,

Katharina Merkel, Mareike Koppik and Thomas Hoffmeister

For additional information contact: statisticworkshopbremen@gmail.com

statisticworkshopbremen@gmail.com

UCambridge DarwinsLegacy Mar21-23

"Charles Darwin: history and legacy" is a weekend course from the University of Cambridge Institute of Continuing Education. The course will take place from 21 to 23 March at Madingley Hall, an elegant 16th century mansion located three miles west of Cambridge. Taught by an esteemed scientist over a series of weekend sessions, the course will provide an excellent insight into Darwin's enduring impact.

Course description

Darwin's legacy extends into many branches of modern biology and other life sciences with varying degrees of acceptance and controversy. The course will conclude with a discussion of how the theory of natural selection and evolution has become a 'universal' concept of Darwinism and how environmental adaptation can be ascribed to other disciplines including literature, music, mathematics and many more.

The tutor: Craig Gershater

Craig JL Gershater has, for most of his career, worked as a research scientist in the pharmaceutical industry specialising in microbial biochemistry, biotechnology, computer control systems and applied mathematics. He holds degrees in biochemistry, mathematics and microbiology and has done PhD research into fungal enzymology. He has worked extensively in industry, managing research and development programmes in the USA, Europe and New Zealand, and in academia, in particular at Cambridge and London universities. Currently he works in the field of synthetic biology and is lecturer in applied statistics. More recently Craig, as a Cambridge City Guide, has undertaken numerous tours of Cambridge, many on the topic of the scientific heritage of the University. He is also a qualified and prize-winning Institute of Tourist Guiding Blue Badge guide for the south of England and offers tours throughout the region. He provides many courses to the Institute of Continuing Education, covering topics including the scientific heritage of Cambridge, Darwin, Newton and Leonardo da Vinci as well as Victorian, Edwardian, and interwar-years science.

Additional details

This course will run from 21 to 23 March. It will begin on Friday evening and disperse after lunch on Sunday. Accommodation is available in Madingley Hall for the duration of the course (typically the Friday and Saturday nights, but an extra night is available on the Sunday if desired).

The course cost is £240, which includes dinner on Friday and Saturday and lunch on Saturday and Sunday. Accommodation, including breakfast on Saturday and Sunday, is available for £110 or £90 per person for two people sharing.

You can find full details about this course, including the timetable, on its page on our website:

www.ice.cam.ac.uk/darwin James Burton Marketing Assistant Institute of Continuing Education, University of Cambridge Madingley Hall, Madingley, Cambridge CB23 8AQ

T: +44 (0)1223 746421 E: james.burton@ice.cam.ac.uk W: www.ice.cam.ac.uk * 140 years of continuing education at Cambridge 1873-2013 * * Become a Friend of Madingley Hall: www.ice.cam.ac.uk/friends James Burton <James.Burton@ice.cam.ac.uk>

UTromso GeometricMorphometrics May5-9

please find below the announcement for an introductory course on Geometric Morphometrics using R, which the organizers and instructors would like to post on EvolDir.

Antigoni Kaliontzopoulou

COURSE ANNOUNCEMENT

*An introduction to geometric morphometrics using R **5-9 May 2013, ForBio, University of Tromsø - The Arctic University of Norway** *The analysis of organismal shape is central to many questions in ecology and evolution. This course aims at providing an introduction to the theory and methods of geometric morphometrics for analysing variation in shape and its covariation with other variables. It will provide an overview of the theory underlying the quantification of shape using landmark methods, and a practical guide to data acquisition, standardization for obtaining shape variables, statistical treatment of shape variation and visualization of the results in the R language for statistical programming.

*Instructors: *Prof. Dean C. Adams, Dr. Michael Collyer, Dr. Antigoni Kaliontzopoulou *Deadline for applications: *16 March 2014 *For applications and more information, please visit: http://www.forbio.uio.no/events/courses/2014/-zoomorphometrics.html* Antigoni Kaliontzopoulou <antigoni@cibio.up.pt>

WoodsHole EvolutionOfAging Aug3-23

Summer Course at the Marine Biology Lab, Woods Hole, MA on the Molecular BIology of Aging

Course Directors: Daniel Promislow and Matt Kaeberlein

Dates: Aug 3rd to August 23rd, 2014

Topics covered: Molecular biology, evolution, demography and systems biology of aging

Webpage: http://hermes.mbl.edu/education/courses/-special_topics/bag.html Application Deadline: March 11, 2014

Details The Ellison Medical Foundation sponsors the Molecular Biology of Aging Summer Course to be held Aug 3 - August 23, 2014 at the Marine Biological Laboratory in Woods Hole, Massachusetts. This three-week lecture and laboratory course features the newest and most exciting ideas in aging research. The course is under the directorship of Matt Kaeberlein and Daniel Promislow. While the focus will be primarily on the molecular biology of aging, both lecture and lab will include evolutionary, statistical demography and systems biology aspects of aging research.

Costs of attending the course, including travel, housing, and meals at the Marine Biology Lab in Woods Hole, are fully covered by The Ellison Medical Foundation. A distinguished faculty will interact with approximately 20 students via lecture, discussion, hands-on experiments, and analysis of data.

2013 Faculty and Lecturers: Rozalyn Anderson, University of Wisconsin-Madison Nir Barzilai, Albert Einstein College of Medicine Shelley Berger, University of Pennsylvania Anne Brunet, Stanford University Judith Campisi, Buck Institute for Research on Aging Lenny Guarente, Massachusetts Institute of Technology Leanne Jones, University of California, Los Angeles Matt Meselson, MBL Patrick Phillips, University of Oregon Scott Pletcher, University of Michigan Gary Ruvkun, Massachusetts General Hospital Yousin Suh, Albert Einstein College of Medicine Marc Tatar, Brown University Douglas Wallace, Children's Hospital Research Institute

For additional information, contact: Daniel Promislow Department of Pathology and Department of Biology University of Washington promislo@uw.edu

Daniel Promislow <promislo@u.washington.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.