E v o l D i r

May 1, 2015

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

Amsterdam Zoology Oct8-9

www.zoology2015.nl Zoology 2015

Zoology 2015, the 21st Benelux Congress of Zoology co-organized by the Royal Dutch and Belgian Zoological Societies, will take place in Amsterdam (the Netherlands) on 8 & 9 October 2015 at the Barbizon Hotel in Amsterdam.

A unique opportunity

Zoology 2015 will be an excellent opportunity for zoology students and young scientists to meet colleagues and to present and discuss their research. Moreover, the conference will give an overview of the current scientific work from many European universities and zoological institutes, and thus provide ample opportunity for establishing contacts for collaboration.

Topics

Four general topics will be illustrated by four keynote speakers: evolution of development of behaviour, ecological forecasting, eco-evolutionary dynamics, microbe - (in)vertebrate interactions.

Feel welcome to join us

Zoology 2015 welcomes oral presentations and posters

from researchers at all stages of their scientific career (master students, PhD students, post-docs or PIs) and from all fields of animal science, from molecules to biosphere.

A.T.Groot@uva.nl

Bainbridge Washington ChromosomeEvolution Aug17-20

Interested in Chromosome Evolution? Want to attend a very cool meeting in the beautiful Pacific Northwest? A small meeting, where you can interact with top researchers and dedicated students at talks, meals, and after-hour get-togethers? The AGA President, Katie Peichel, has reserved an intimate retreat, IslandWood, just outside of Seattle. Registration includes all meals, spacious shared lodging is cheap, and we've thrown in a few drinks every evening.

For more information, poster abstract submission, and registration, go to: http://www.theaga.org/-program.htm Space is limited for what promises to be a very popular small meeting. Registration will close on June 30, or as soon as space is filled, so register early!

Anjanette Bakerâ Managing Editor, Journal of Heredity http://jhered.oxfordjournals.org/ Manager,â American Genetic Association http://www.theaga.org/ 2030 SE Marine Science Dr Newport, OR 97366 https://-www.facebook.com/AmericanGeneticAssociation AGA-JOH@oregonstate.edu

Berkeley California EvoDevo Aug5-9 AbstDeadline

*FINAL DAY FOR ABSTRACT SUBMISSION! *

15 April

*Secure your spot now at the EvoDevo Event of the Year! *

*1) **Become a member of PanAm EvoDevo.*

*2) **Register and submit an abstract - NOW.*

*3) **Attend the meeting - August 5th in Berkeley, CA.*

Abstract Submission for the inaugural meeting of the Pan American Society for Evolutionary Developmental Biology < http://www.evodevopanam.org/ > ends Tomorrow!

Register and Submit your Abstract to secure your spot at the meeting - registration is limited to 350 members. There are only a few spaces left to attend, and a few days left to submit your abstract!!!

*Click **here* < http://www.evodevopanam.org/-meetings–events.html >* to join, register and submit your abstract.*

Follow us: @EvoDevoPanAm

Join Us: #EvoDevo15

A few meeting highlights:

- *Award winning speakers: *Natalia Pabón-Mora (Early Career Award Recipient), Rudy Raff (Pioneers Award recipient).

- *Selected abstracts* chosen for presentations and posters by members; faculty, postdocs and students encouraged to apply.

- *Poster prizes* for PhD students and postdocs

All details about registration, accommodation options, childcare services, and the conference program are available at the following website: http:/-/www.evodevopanam.org/meetings–events.html Support the Society and Become a Member, and enjoy the benefits of being part of the fast-growing and intellectually invigorating EvoDevo community!! To learn more about PASEDB, visit the following website: http://-www.evodevopanam.org/ The Organizing Committee and the PanAm SEDB Executive Council look forward to welcoming you to Berkeley in August!

registration@panamevodevo membership@panamevodevo

Chelsea Specht <cdspecht@berkeley.edu>

Berkeley California EvoDevo Aug5-9 AbstSubmission

EvoDevo2015, August 5-9, Berkeley California

The Final Days for Abstract Submission are upon us! Submit your abstract by April 15th for an oral or poster presentation at PanAM EVODEVO.

This is the inaugural meeting of the Pan American Society for Evolutionary Developmental Biology!

The meeting is 5-9 August, 2015 and will include invited talks, contributed sessions, awards, posters, targeted workshops on science and education, and loads of opportunities to build collaborations in the highly interdisciplinary and interactive field of Evolutionary Developmental Biology. All walks of life and technological advances will be represented, from bacteria to plants, from hosts to parasites, from paleo to next generation. There are only a few spaces left to attend, and a few days left to submit your abstract!!!

Registration will continue until April 30th for any spots not filled, but these are limited. Abstracts will not be accepted after the deadline.

To register and submit your abstract go to http://-www.evodevopanam.org/meetings–events.html Follow us: @EvoDevoPanAm Join Us: #EvoDevo15

A few meeting highlights:

- Award winning speakers: Natalia Pabón-Mora (Early Career Award Recipient), Rudy Raff (Pioneers Award recipient).

- Selected abstracts chosen for presentation by our rapidly-growing diverse and international membership; faculty, postdocs and students are all encouraged to apply.

- Posters on display throughout the entire meeting.

- Poster prizes for PhD students and postdocs

All details about registration, accommodation options, childcare services, and the conference program are available at the following website: http:/-/www.evodevopanam.org/meetings–events.html Support the Society and Become a Member, and enjoy the benefits of being part of the fast-growing, diverse, and intellectually invigorating EvoDevo community!! To learn more about PASEDB, visit the following website: http://www.evodevopanam.org/ The Organizing Committee and the PanAm SEDB Executive Council look forward to welcoming you to Berkeley in August!

Chelsea Specht <cdspecht@berkeley.edu>

Copenhagen FishConservationStocks Sep21-25

ICES Annual Science Conference 2015

Invitation for Submissions - Theme Session T Practical application of Genetic Stock Identification for the conservation, management, and restoration of diadromous fish species

21 - 25 September 2015 Copenhagen, Denmark

Deadline for submitting abstracts is 30 April 2015 via the ICES website!

Conveners:

Dennis Ensing (AFBI, UK) Philip McGinnity (UC Cork, Ireland)

Session scope:

Genetic Stock Identification (GSI) is applied widely to salmon and other diadromous fish populations. Current applications include identification of contributing stocks to mixed-stock salmon fisheries. International management is particularly required in the high seas where stocks from Europe and North America mix, and ICES provides advice to the North Atlantic Salmon Conservation Organization (NASCO). There is a need to assimilate the outputs from GSI studies into a usable format for managers of diadromous fish resources, both nationally and also for the provision of advice to ICES, NASCO, EIFAAC, etc.

A significant advance has been made in genetic stock identification, both in terms of methods and in numbers of stocks with genetic baselines. The distribution and migrations of salmon post-smolts has now been described using GSI from the SALSEA Merge and SALSEA North America studies between 2009 and 2011. The Kolarctic Project (a joint GSI study on salmon from Scandinavia and Russia) is complete and the implications for mixed-stock fisheries are being explored.

Coordination and synthesis of the management implications is now being sought by managers, scientists, and conservation organizations. This will require an overview of GSI studies with implications for management of stocks. It is also important that the limitations of GSI probability assignments are understood in applied assessments.

Finally, both biodiversity and stock productivity are important components for identifying the conservation status of stocks; they are not, however, properly integrated into practical management assessments or advice, particularly regarding rare, marginal, or poorly known diadromous or other migratory fish.

The session invites contributions that include examples of GSI studies integrated with: * Management advice and policy decisions including EU and other directives * Management of mixed-stock fisheries * Application to restocking or enhancement/restoration projects * Biodiversity of marginal, rare, and sensitive species conservation (shads, lampreys, charr, coregonids, etc.) * Cause

of changes in populations and stock composition over longer time periods from archival tissue samples * Population bottlenecks and population viability * Compensatory programmes and live gene banking for long-term management of critically endangered stocks * Single Nucleotide Polymorphism genetic markers (SNPs) and improving analytical resolution to finer geographical scales and stock discrimination

For any informal enquiries, please feel free to contact any one of the Conveners

Dennis Ensing mail: dennis.ensing@afbini.gov.uk Philip McGinnity mail: p.mcginnity@ucc.ie

Authors are invited to submit abstracts for paper (oral) or poster presentation in one of the 2015 theme sessions via the ICES ASC website. http://ices.dk/news-and-events/asc/ASC2015/Pages/default.aspx Deadline for submitting abstracts is 30 April 2015 via the ICES website! Funding support for young scientists Travel funds are available for early career scientists and first-time participation at the ASC is especially encouraged.

To be eligible, the applicant must meet these requirements:

* 35 years or younger

* Nationality/affiliation in an ICES member country

* Abstract submitted and registration for ASC

Because funds are limited, travel support can only be partial, e.g. airfare, accommodation, and subsistence. Applications will be assessed on the following criteria:

* Originality of work (as shown in abstract)

* Significance for one of the theme sessions

Online application for travel funds will open at the end of May, immediately after successful contributors have been informed.

The deadline for applications is 19 June 2015. More Info: http://ices.dk/news-and-events/asc/ASC2015/Pages/Early-Career-Scientists.aspx Drs. Dennis Ensing Fisheries & Aquatic Ecosystems Branch Agri-Food & Biosciences Institute*, Newforge Lane, Belfast BT9 5PX Northern Ireland tel +44 (0)2890 255054 fax +44 (0)2890 255004

"Ensing, Dennis" <Dennis.Ensing@afbini.gov.uk>

Copenhagen GeneticStockConservation Sept21-25

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Copenhagen, Denmark

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status of stocks; they are not, however, properly integrated into practical management assessments or advice, particularly regarding rare, marginal, or poorly known diadromous or other migratory fish.

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[*AFBI was created on 1st April 2006 as the amalgamation of the Science Service of the Department of Agriculture and Rural Development and the Agricultural Research Institute of Northern Ireland.

“Ensing, Dennis” <Dennis.Ensing@afbini.gov.uk>

Eatonton Georgia SEPEEG Oct23-25

We are pleased to announce that the 2015 SouthEastern Population Ecology and Evolutionary Genetics (SEPEEG) meeting will be from October 23-25, 2015. It will be held at Rock Eagle 4-H Center in Eatonton, Georgia, which is about an hour southeast of Atlanta (http://goo.gl/maps/5InU2). We expect the format, cost, and housing arrangements to be similar to previous SEPEEG meetings. The plenary speaker will be Margaret Ptacek from Clemson University. Announcements about registration will be sent out in mid-late summer.

The organizing committee is Kelly Dyer, Dave Hall, and Andrea Sweigart from the University of Georgia.

Kelly Dyer Associate Professor Department of Genetics University of Georgia Athens, GA 30602-7223 email: kdyer@uga.edu phone: 706 542 3154

Kelly Dyer <kdyer@uga.edu>

Guaruja Brazil Evolution Jun26-30 EarlyRegistration

Evolution 2015 - June 26-30 Casa Grande Resort - Guarujá, Brazil

The early registration deadline for the joint ASN/SSB/SSE Evolution conference has been extended from the original Apr. 15 deadline. The

discounted rate will now be available until midnight (Guarujá time, UTC/GMT - 3h) on Monday, Apr. 27. For more information, and to register, visit www.evolution2015.org. We look forward to seeing you there!

howard.rundle@uottawa.ca

Guaruja Brazil Evolution Jun26-30 TravelAwards

TRAVEL AWARD TO ATTEND EVOLUTION 2015 SSE SYMPOSIUM "THE MULTIPLE DIMENSIONS OF BIODIVERSITY SCIENCE"

With support from the National Science Foundation, we are pleased to offer travel awards to students and postdocs interested in participating in the SSE Symposium "The Multiple Dimensions of Biodiversity Science", to be held during the 2015 Evolution Meetings in Brazil.

The Symposium will gather evolutionary biologists, ecologists and environmental scientists associated with NSF's Dimensions of Biodiversity program and others to present and discuss how cross-disciplinary collaboration can advance what we know about the generation, maintenance, and loss of biodiversity at local, regional, and global scales. This series of talks will showcase new and promising integrative approaches to biodiversity studies, and lead to a discussion about the very best strategies to educate and train the next generation of integrative scientists.

Awardees will attend the Symposium, network with students, speakers, and their research groups, and bring a poster to Evolution 2015 to present their own integrative and novel research projects in the field of biodiversity science. This award is open to undergraduate, graduate, and postdoctoral students in US institutions. Women and under-represented minorities are especially encouraged to apply. Childcare is provided through Evolution 2015.

We will be able to provide full and partial funds to cover participant costs, including meeting registration, travel, lodging and food costs. Please submit your application to dobsymposium@gmail.com BY NO LATER THAN MAY 5th, under the attention of Ana Carnaval.

Under a Subject Line "DoB Symposium Travel Award, [applicant's name]", please make sure to include, in a single PDF file:

1) A statement of why you want to attend this SSE Symposium (what will you get from it? how will you contribute to it?) 2) A 2-page CV with the name of your reference writer (your advisor, preferably) 3) A tentative budget with your estimated costs. If you have additional sources of funding, please indicate them clearly in this document. 4) A copy of your poster abstract (this presentation should also be submitted to Evolution 2015)

Please have your advisor send a letter of recommendation to dobsymposium@gmail.com, under the attention of Ana Carnaval, with a Subject Line "Letter of Endorsement, [applicant's name]".

We hope to see you in SÃ£o Paulo!

Ana Carolina Carnaval, Ph.D. Assistant Professor, Department of Biology City College of New York, City University of New York Marshak Science Building, Room J-526 160 Convent Avenue New York, NY 10031, USA phone (212) 650-5099 fax (212) 650-8585

The Carnaval Lab: http://www.sci.ccny.cuny.edu/-biology/Carnaval/Carnaval_Lab/Welcome.html Ana Carolina Carnaval <carolinacarnaval@gmail.com>

Guaruja Brazil Evolution Jun26-30 VolunteerPositions

Volunteer @ Evolution 2015 - June 26-30 Casa Grande Resort - Guarujá, Brazil

Volunteer positions are available to graduate student members of the ASN, SSE, and SSB. Volunteers will work for one full day during the meeting in return for a reimbursement of their registration fee (early rate for graduate student members).

To apply, please send an email to evolmeetingvolunteer@gmail.com (in English) stating your interest in volunteering and indicating whether you have any other means of financial support for attending. Applications will be accepted until Apr. 6, after which volunteers will be selected and the chosen individuals will be informed by Apr. 12 (a few days before the early registration deadline). If you do not hear by this date it means that you were unfortunately not selected. Closer to the meeting, volunteers will be offered the opportunity to indicate their job preferences (on a first-come first-served basis). There is no guarantee that you will get your top choice however. Typical jobs include being a session monitor (helping with computer/AV equipment) or working at the registration desk.

Reimbursements will be processes after the meeting, subject to confirmation that the work assignments was successfully completed. An ability to communicate effectively in English is required.

howard.rundle@uottawa.ca

Guaruji Brazil Evolution Jun26-30

Evolution 2015 - June 26-30 Casa Grande Resort - Guarujá, Brazil

A quick update on the conference and deadlines. Registration has been strong and we're on track for 1,200 attendees (possibly more) and more than 400 contributed talks (and 50+ lightning talks). Poster registrations are still coming in as well. When combined with 11 different symposia, presidential addresses from all three societies, and various other special events/talks, it is shaping up to be a dynamic and informative meeting that is not to be missed. Join your colleagues for an exciting event in a unique destination!

A reminder that the early registration deadline has been extended until midnight (Guarujá time, UTC/GMT -3h) on Monday, Apr. 27.

Registration for talks (regular and lightning) and posters will remain open until May 15, or until all slots are filled.

For more information, and to register, visit www.evolution2015.org. We look forward to seeing you there!

howard.rundle@uottawa.ca

Guelph Barcode Aug18-21 DeadlineReminder

The Sixth International Barcode of Life Conference will be held in Guelph, Canada from August 18-21, 2015. Themed "Barcodes to Biomes", conference sessions will reflect the ongoing expansion of DNA barcoding research – in geographic and taxonomic scope, in disciplinary breadth, and in the diversity of socio-economic applications. Submit your abstract by April 30th to participate as part of this international community. This conference will feature:

* publication of all accepted abstracts in a special conference issue of the journal Genome

* an exciting line-up of internationally renowned plenary speakers

* sessions on systematics, ecology, evolution, conservation, and whole biome analysis

* sessions on the diverse applications of DNA barcoding including education; international development; protection of endangered species; detection of invasive species, agricultural pests, and species within natural health products; and food safety & authenticity

* poster session

* diverse opportunities for networking at meals, breaks, and gala dinner

* 13 prizes for excellent oral and poster presentations by students and post-doctoral fellows

* pre-conference training workshops

* post-conference excursions to scenic sites such as Niagara Falls

Submit your abstract by April 30th to ensure its full consideration for inclusion in the scientific program and in the special conference journal issue. Note that the submission deadline for Travel Awards has passed. We look forward to welcoming you to Guelph for a stimulating and productive meeting.

http://dnabarcodes2015.org/ Conference Operating Committee: Sarah Adamowicz Mehrdad Hajibabaei Robert Hanner Paul Hebert

Dr. Dirk Steinke

Director, Education and Outreach

Biodiversity Institute of Ontario University of Guelph 50 Stone Road East Guelph, ON, N1G2W1

email: dsteinke@uoguelph.ca http://dna-barcoding.blogspot.ca http://biodiversity.ca/-outreach.html http://www.educationandbarcoding.org/ The School Malaise Trap Program at http://-malaiseprogram.ca dsteinke@uoguelph.ca

Guelph Barcoding Aug18-21

Call for Papers - Sixth International Barcode of Life Conference

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Guelph Barcoding Aug18-21 DeadlineExt

Abstract Deadline Extended - Sixth International Barcode of Life Conference

The Sixth International Barcode of Life Conference will be held in Guelph, Canada from August 18-21, 2015. The abstract submission deadline has been extended to April 30th. Note that abstracts associated with an application for a Travel Award must be submitted by the original due date (April 15th).

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IguassuFalls PlantEvolution Oct25-30

Dear Colleagues,

Brazil and Argentina are hosting the 11th IPMB meeting at Iguassu Falls from October 25th - 30th (IPMB; http://www.plantsci.org.uk/events/11th- international-congress-plant-molecular-biology) .

There are plenary lectures and symposia that will address key topics on Plant Molecular Evolution on processes such as Photosynthesis, Plant Microbe interaction, Plant signaling and Environmental perception and adaptation.

The scientific program is very exciting and at top questions in the field will be addressed.

Come and join us!

With my best regards,

Marie-Anne

On behalf of the Bilateral Organizing Committee and IPMB Board

Rita Ulloa (INGEBI, Argentina), Marie-Anne Van Sluys (Universidade de Sao Paulo, Brazil) Fernando Carrari (INTA, Argentina), Marcio C. Silva-Filho (Universidade de Sao Paulo - Brazil)

mavsluys@usp.br

IndianaU SMBE Mutation May11-14

Dear Colleagues,

The Society of Molecular Biology and Evolution Satellite Meeting on Mutation, Repair and Evolution, will take place May 11-14th at Indiana University, Bloomington Campus. This meeting will explore the biochemical processes involved in mutation and repair and their relevant impact on genome evolution. Topics will focus on genomic and environmental features that drive mutation processes, as well as the contributions of mutation, selection, and drift on genome evolution. Registration, abstract submission, and further details are available at our website: http://mutation.indiana.edu. Travel grants are available for underrepresented minorities. Costs for registration are $150 SMBE and IU affiliates; $190 for other attendees. Registration includes access to all talks, morning breakfast, lunch and coffee breaks (Tuesday, Wednesday and Thursday).

Keynote speakers for this meeting are : Patricia Foster (Indiana University) and Peter Keightley (University of Edinburgh, UK)

Invited Speakers : Vaughn Cooper - Associate Professor, University of New Hampshire, USA. Laurent Duret - Director of Research, University Lyon 1 Claude Bernard / CNRS, France. Thomas W. Glover - Professor of Human Genetics, University of Michigan Medical School. Matthew Hahn - Professor of Biology and Informatics, Indiana University, USA. Ruth Hershberg - Assistant Professor, Ruth and Bruce Rappaport Faculty of Medicine, Israel. Sue Jinks-Robertson - Professor of Molecular Genetics and Microbiology, Duke University, USA. Vaishali Katju - Associate Professor, University of New Mexico, USA. Thomas Kunkel - NIH Distinguished Investigator, NIEHS, USA. Lawrence Loeb - Principal Investigator, University of Washington, USA. Michael Lynch - Professor of Biology, Indiana University, USA. Kateryna Makova - Director of Center for Medical Genomics, Penn State University, USA. Anna Malkova - Professor of Biology, University of Iowa, USA. Polina Shcherbakova - Research Faculty, University of Nebraska, USA. Graham Walker - Department of Biology, Massachusetts Institute of Technology, USA. Wei Yang - Principal Investigator, NIDDK, USA. Jianzhi Zhang - Principal Investigator, University of Michigan, USA. Rebecca Zufall - Associate Professor, University

of Houston, USA.

– Jean-François Gout Postdoctoral Researcher in the Lynch Lab Indiana University, Dept. of Biology 1001E 3rd Street Bloomington, IN 47405

http://www.indiana.edu/ ~ lynchlab/jf_gout.htm
jgout@indiana.edu

KansasStateU ArthropodGenomics Jun17-19 Deadline

~~~Register by Friday, April 10, for reduced early-bird rates!~~~

~New information added: Genome Train Workshop!~

--*-*-* Ninth Annual Arthropod Genomics Symposium*-*-*-*-*-

June 17, 2015 to June 19, 2015

K-State Alumni Center, Kansas State University

Manhattan, Kansas

Symposium Website: www.ksu.edu/agc REGISTRATION DEADLINES

Please register online at the Symposium website, www.k-state.edu/agc Friday, April 10, is the early bird deadline for reduced fees.

June 5 is the deadline for general registration.

ABSTRACT DEADLINES

Wednesday, May 20 - If you DO wish to present a poster during the Symposium.

Wednesday, May 20 - If you DO wish your abstract to be considered for a poster presentation at the IGTRCN pre-meeting workshop.

(March 9 was the deadline for abstracts to be considered for oral presentations at the symposium.)

SPEAKERS (Presentation titles are on the Speaker page of the website.)

Keynote Speaker: David A. O'Brochta, Institute for Bioscience and Biotechnology Research & Department of Entomology, University of Maryland College Park

Featured Speakers:

+Michelle Cilia, USDA-ARS, Boyce Thompson Institute for Plant Research, Cornell University, USA

+Martin J. Donnelly, Liverpool School of Tropical Medicine and the Wellcome Trust Sanger Institute, UK

+Rosemary G. Gillespie, University of California, Berkeley, USA

+Sijun Liu, Iowa State University, USA

+Frank Lyko, German Cancer Research Center, Heidelberg, Germany

+Duane McKenna, University of Memphis, USA

+Armin P. Moczek, Indiana University, USA

+Amanda J. Moehring, Western University, Ontario, Canada

+Daniel E. Neafsey, Broad Institute of MIT and Harvard University, USA

+Greg Ragland, Kansas State University, USA

+Anne-Nathalie Volkoff, INRA (UMR1333), Montpellier 1 University, France

The symposium focuses on new insights gleaned from analyzing arthropod genomes and is designed for scientists interested in genomic studies of Arthropods, both model organisms and those of agricultural or health relevance. The program will include platform presentations, welcome reception, Genome Train Workshop, Annotation Café, and arthropod genomics-related poster sessions. A few poster abstract submissions will be selected for platform presentations. Postdoctoral, graduate, and undergraduate students are also encouraged to attend. Sessions conclude Friday evening, followed by an optional evening at Konza Prairie with dinner and live music by the Red State Blues Band < http://-www.redstatebluesband.com/ >.

--*-*-* Pre-Symposium Workshop *-*-*-*-*-

INSECT GENETIC TECHNOLOGY workshop

June 17, 2015 (Wednesday morning and afternoon)

Robust protocols to manipulate genes and genomes have not yet been developed for most insects other than Drosophila melanogaster, and this shortfall is limiting research progress in many aspects of arthropod genomics. The NSF-RCN on Insect Genetic Technologies (IGTRCN: 2014-2019; igtrcn.org) seeks to remedy this problem by facilitating the communication of best practice and new techniques among arthropod genomicists.

This IGTRCN-sponsored workshop will comprise (1) talks that showcase the latest genetic technologies, (2) discussion sessions for exchange of ideas and solutions for effective insect genetic engineering, and (3) posters. Proposals from the workshop will be integrated into the IGTRCN program of hands-on practical workshops, fellowships, and the IGTRCN KnowledgeBase.
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Early-career researchers are particularly encouraged to present their research at this workshop. A limited number of travel grants to attend the workshop are available for early stage investigators. Application deadline was March 9. For more information on poster abstract and travel grant submission for the workshop, go to http://www.k-state.edu/agc/symposium_level/-workshop/index.html . GENOME TRAIN WORKSHOP

Join us for a journey on The Genome Train on Thursday, June 18th, 7:00 pm to 8:30 p.m.

Genome Train is a participatory workshop on genomics training where we will first introduce the main considerations for each stage of a genome sequencing project and then break off into groups to focus on:

[1] experimental design, [2] genome assembly & quality assessment, [3] automated genome annotation, [4] manual curation of gene models, [5] automated & manual assessment of gene function, [6] dissemination, maintenance & improvement of genome resources.

We will then reconvene to compare notes and finish off by focusing on station [4] to lead logically on to the Annotation Café. Please sign up here

— / —

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

Manchester MolecularGenomeEvolution Jun15

Dear Colleagues,

The 6th Annual Manchester Molecular and Genome Evolution symposium (MaGE), will take place on Monday 15th June 2015 at the University of Manchester, UK. The remit of the symposium is broad, including 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 Adam Eyre-Walker (Sussex University http://www.lifesci.susx.ac.uk/home/Adam_Eyre-Walker/Website/Welcome.html), on “The role of recombination and mutation in the adaptive process± and Ashleigh Griffin (University of Oxford, http://-www.zoo.ox.ac.uk/group/griffin/) on ”The Behavioural Ecology of Bacteria Causing Infections±.

We are now inviting abstracts for talks: see https://-manchestermage.wordpress.com for details. Deadline for submission of Talk titles and abstracts: Thursday 14th May

MaGE is free to attend, but places are limited so please register soon (from the website above, or direct at http:/-/is.gd/MaGE15register) and submit a title if you would like 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 do please contact me (chris.knight@manchester.ac.uk) or Sam (sam.griffiths-jones@manchester.ac.uk).

Hope to see you in June!

Chris

Dr Christopher Knight Michael Smith Building Lecturer Faculty of Life Sciences Tel: +44 (0)161 2755378 The University of Manchester room B.2012 Oxford Road tinyurl.com/knightFLS/ Manchester M13 9PT . ,,><(((Æ> UK

Chris.Knight@manchester.ac.uk

Marseilles 19thEvolutionaryBiol Sep15-18 DeadlineJun30

Dear all the registration dead line for the EBM 19 is June 30 more info: http://sites.univ-provence.fr/evol-cgr/ or www.aeeb.fr

all the best Pierre

Pierre PONTAROTTI <pierre.pontarotti@univ-amu.fr>

MexicoCity Bioinformatics Aug4-6

The 2nd International Conference on Algorithms for Computational Biology (AlCoB 2015) invites authors to submit work in progress for presentation. AlCoB 2015 will be held in Mexico City on August 4-6, 2015. See

http://grammars.grlmc.com/alcob2015/ Presentations are intended to enhance informal interactions with conference participants, at the same time permitting in-depth discussion.

TOPICS

Authors can submit presentations describing novel work in progress on any of the topics within the scope of the conference. They do not need to contain final results, but research that may lead to future interesting developments is welcome.

KEY DATES

Submission deadline: June 26, 2015 Notification of acceptance or rejection: 7 days after submission

SUBMISSION

Please submit a .pdf abstract through:

https://www.easychair.org/conferences/?conf=-alcob2015 It should contain the title, author(s) and affiliation, and should not exceed 500 words.

PRESENTATION

Each presentation will be allocated 15 minutes in the programme.

PUBLICATION

The presented work will not appear in the LNCS/LNBI proceedings volume of AlCoB 2015. However, it will be eligible for submission to the post-conference Journal of Computational Biology special issue.

REGISTRATION

Authors of work in progress have to register to the conference. They will pay a reduced fare. This comprises access to all sessions, one copy of the proceedings volume, coffee breaks and lunches.

GRLMC <grlmc@urv.cat>

Naples MathToLife Oct19-21

Dear Colleague,

We would like to invite you to the 2nd edition of the Bringing Maths to Life Workshop that will be held in Naples, on 19-21 October 2015 (http://www.bmtl.it).

The workshop provides an occasion for biologists and mathematicians to join forces in addressing key areas in biology that face demanding mathematical challenges. Discussing existing cases to identify gaps or to share existing solutions will help these disciplines in successfully linking up.

BMTL Workshop will be hosted in the ancient city of Naples, and will provide a timely and pertinent occasion for international researchers that wish to engage in cutting edge science at the interface of mathematics and biology.

This year scientific topics include: -Genome dynamics -Dynamics of biological networks -Pattern recognition dynamics -Dynamics of polymorphisms

Confirmed speakers include: - Adam Eyre-Walker, University of Sussex, UK - Chris Bowler, École Normale Supérieure, France - Marco Cosentino Lagomarsino, Universite Pierre et Marie Curie, France - Morgane Thomas-Chollier, École Normale Supérieure, France - Sebaastian Meijsing, Max Planck Institute for Molecular Genetics, Germany - Panos Pardalos, University of Florida, USA

For more information visit the website (http://-www.bmtl.it)

Early registration & abstract submission: June 30th, 2015

Scientists are invited to send their contributions. Abstracts should be in English and contain original research results. Commercial and promotional material will not be accepted. At least one of the authors is expected to register to the conference. All abstracts will be peer reviewed by an international scientific board that will decide whether presenting them as a poster or an oral contribution.

Selected peer-review papers will be considered for publication in monographs and special issues of international journals.

We hope to meet you in Naples.

Kind regards,

The BMTL Organizing Committee Vincenza Colonna, IGB - CNR Mario Guarracino, ICAR - CNR Alessandra Rogato, IBBR - CNR Valeria Zazzu, IGB - CNR

Adam Eyre-Walker <a.c.eyre-walker@sussex.ac.uk>

Paris MMEE InformationEpigeneticsEvolution Jul8-10

Dear EvolDir list members

We are writing to draw your attention to a symposium we are organising at this year's Mathematical Modelling in Ecology and Evolution (MMEE) meeting in Paris, 8-10 July, on the 'Origin and role of epigenetic information transmission in evolution.' Our confirmed, invited speakers are: Olivier Rivoire (Laboratory for Interdisciplinary Physics, Grenoble, France) and Ido Pen (University of Groningen, The Netherlands). The symposium details are given below.

If you would like to submit an abstract for a poster or talk at the symposium, please register at the meeting website, http://www.biologie.ens.fr/mmee2015/-registration.html, and select the symposium when prompted. The deadline for preregistration and abstracts is 1 May, the deadline for registration is 1 June.

We hope to see many of you there!

Best wishes, Sinead English, Jérôme Enjalbert, Maud Tenaillon and Tobias Uller

Symposium: Origin and role of epigenetic information transmission in evolution

There is a mounting body of empirical evidence that information can be transmitted across generations through several channels other than variation in DNA sequence alone. Environmentally induced changes in gene expression can be inherited through incomplete resetting of methylation marks, for example, and parental behaviour affects offspring and subsequent descendants. Several theoretical papers have modelled these specific mechanisms. In spite of differences in the underlying mechanisms, these channels of genetic and non-genetic inheritance may be unified in their role as transmission of information across generations. Here, we propose a symposium to discuss the merits of such an approach. Specifically, is the information concept a useful framework to develop a theory of non-genetic inheritance? How do the insights generated from an information perspective compare to those from mechanistic models? Can we use this framework to predict the life-history and environmental conditions under which epigenetically regulated networks contribute to population adaptation to fitness landscapes? We will also discuss the origin and specific features (e.g., stability, inducibility) of information transmission under different mechanisms of inheritance: while DNA machinery seems to be selected for this purpose, it is less obvious how other mechanisms come to transmit information across generations.

Sinead English Visiting Research Fellow, Department of Zoology, University of Cambridge Research Associate, Mathematical Ecology Research Group, Department of Zoology, University of Oxford https://-sineadenglish.wordpress.com/ sineadenglish@gmail.com

Poland EctothermsLifeHistory Aug23-28

*Everybody interested in the life history evolution, plasticity and performance of ectotherms is welcome to join our symposium **(number 19) >From Molecular Machines to Performance and Life History of Ectotherms: Temperature, Oxygen, Cell and Body Size (http://-www.iccpb2015.confer.uj.edu.pl/symposia)**, organised as a part of the 9th International Congress of Comparative Physiology and Biochemistry. ICCPB2015 will be held at the Jagiellonian University in Krakow, Poland* *(23-28 August 2015******).* ***The deadline of early registration is 14th April The deadline for abstract submision is 15th June

Symposium organizers:*

Marcin Czarnoleski, Jagiellonian University, Poland

Roberto Nespolo, Universidad Austral de Chile, Chile

Invited speakers:

Hans Otto-Pörtner (Alfred Wegener Institute, Germany) â /Oxygen and capacity limited thermal tolerance: connecting to ecology and evolution//./

Marcin Czarnoleski (Jagiellonian University, Poland) â /Physiological performance and life history of ectotherms - a cell size perspective. /

Roberto Nespolo (Universidad Austral de Chile, Chile) â /Energy expenditure and thermal adaptation in a terrestrial ectotherm: a reciprocal transplant experiment./

Vincent Careau (Deakin University, Australia) â /Indi-

vidual (co)variation in thermal sensitivity of metabolism and behaviour./

Luis Castañeda (Institute of Ecology and Biodiversity, Chile) â /High temperature tolerance in Drosophila subobscura: geographic variation, phenotypic plasticity and global warming./

Wilco Verberk (Radboud University Nijmegen, The Netherlands) â /Struggling to balance oxygen uptake and consumption when breathing under water: implications for thermal tolerance and growth/.

Symposium abstract:

Ectotherms occupy habitats that vary greatly through space and time with respect to environmental conditions. Environmental conditions such as temperature, the amount and quality of food, oxygen supply and life style decide about a balance between demands and supply of resources, and ectotherms evolved many physiological traits in response to this balance. Ambient temperatures impact directly the thermodynamic state of molecular machines in cells, physical state of organelles and diffusion processes, which together with the external supply of oxygen and food shapes the performance of cellular machinery and ultimately whole-organism performance. Yet, following Darwinian theory of evolution, it is not the physiological performance that should be maximized by natural selection, but the expected number of offspring produced through lifetime. This raises an important and still unanswered question about links between the evolution of physiological and life history traits.

This symposium aims at integrating perspectives of molecular, cellular and physiological biologists with evolutionary ecologists to better understand the origin of phenomena observed at a phenotypic and ecological scales, especially dependence of body size and cell size on environmental conditions. For example, many cold ectotherms grow slowly and mature later at larger body size - the plastic response often called temperature-size rule. Under hypoxia, ectotherms usually develop or evolve smaller body size, and thermal tolerance of some ectotherms decreases in hypoxia. What is more, recent evidence suggests that cellular architecture of ectotherm's body undergoes plastic and genetic changes in response to external environment - e.g. the cell size of some ectotherms tends to decrease in warm and hypoxic conditions. At a geographic scale, we observe latitudinal and altitudinal clines in body size and cell size. The clines in body size often follow Bergmann's rule (large size at higher latitudes or altitudes). Despite the commonly acknowledged role of thermal conditions in the origin of these phenomena, the symposium will provide a room for discussion of a potential role of other factors that change in concert with thermal conditions or latitude, especially oxygen supplies, pressure of mortality factors such as predation and parasitism, season length.

– Dr. Marcin Czarnoleski

Jagiellonian University Institute of Environmental Sciences Gronostajowa 7, Krakow 30-387 Poland phone: (+48)126645203 email: marcin.czarnoleski@uj.edu.pl

Dr hab. Marcin CzarnoÅÄski

Instytut Nauk o Ârodowisku Uniwersytet JagielloÅski ul. Gronostajowa 7, Kraków 30-387 tel: 126645203 email: marcin.czarnoleski@uj.edu.pl

"UrodziÅem siÄ z rodziców ubogich, od dziecka pociÄg czujÄc do myÅlenia byt penetrujÄcego" StanisÅaw Lem, Cyberiada

Marcin Czarnoleski <marcin.czarnoleski@uj.edu.pl>

Porto Portugal Ichthyology Sep7-11

This may be of interest - note impending abstract deadline Please distribute within your department

ABSTRACT SUBMISSION DEADLINE: 30TH APRIL 2015

Dear colleagues,

As you already know the XV European Congress of Ichthyology, organized by the Interdisciplinary Centre of Marine and Environmental Research, will take place from the 7th to 11th September 2015 in Porto Portugal. This is an international congress promoted by the European Ichthyological Societythat has been held on a three-year cycle since 1973. Recent meetings have been able to attract around 250-300 researchers from around the world. The congress will focus on fish as a subject of research in several biological sciences. The scientific program will include sessions following four main topics: I) Phylogeny, systematic and genetics; II) Ecology, conservation and invasive species; III) Life cycles, migration and connectivity; and IV) Physiology, behaviour and toxicology. Two special symposia have also been organized: V) Otoliths as a powerful tool to study fishes; and VI) Mediterranean fish biodiversity.

The congress will be organized with parallel oral sessions and poster exhibitions. The congress will include several invited plenary lectures made by world renowned fish researchers: Drs. Jeffrey Leis (Australia), Joana Robalo (Portugal), Kenneth Able (USA), Marino Vachhi (Italy),

Miguel Pineda(Spain), Neil Metcalfe (UK), Rui Oliveira (Portugal) and Steven Campana (Canada).

The abstract submission deadline is fast approaching on the 30th of April 2015. It is mandatory to register first to access the on-line submission form. However, you do not need to pay until the early and late registration dates on the 15th and 30th of June 2015, respectively. The registration feeshave been kept low to attract as much as possible early career researchers (250 euro) and graduate students (150 euro). Members of the EIS have a 20% discount. Students will also have the opportunity to compete for awards for best oral and poster presentations.

The congress will be held at the Hotel HF Ipanema Park, a 5 stars hotel. A complete buffet lunch, including water, juices and wines, is available in the conference hotel for 15 euro per day, but to a limited number of persons. However, within short walking distance (less than 5 minutes) you have other light and inexpensive options, such as a Japanese restaurant, a Pizzeria and a few snack-bars.

Please also check out the organized social program. We have schedule events for each conference day for both participants and accompanying persons. Some of them are free, but you will need to book them through the online registration.

In 2014 Porto was elected the best European destination by European citizens (www.europeanbestdestinations.com/top/europe-best-destinations-2014/), and I am sure that you will be delighted with the city, people and food (and of course Port wine). Our international airport is served by several regular and low-cost airlines companies. But train and car are other options. Bookings for accommodation with special prices for other HF Hotels are also now open. Some low-cost accommodations are now also available on the webpage. We strongly recommend "Casa Diocesana Seminário do Vilar" with single and double rooms ranging from 25 to 39 euro per day with breakfast included. September is still part of the summer season for tourism in Porto so try to reserve your accommodation in advance. If you need any help, feel free to contact us.

Further, and regularly, updated information can be found at the congress webpage (www.ciimar.up.pt/-ecixv). Please follow our latest news onFacebook (www.facebook.com/ECIXV) and Twitter (www.twitter.com/ECI_XV).

We would greatly appreciate if you kindly forward this information to your colleagues and students in your University, Institute and/or national and international networks. Please also accept our apologies for cross-postings.

We hope to see you in Porto in early September.

On behalf of the Organizing Committee Prof. Alberto Teodorico Correia, ECIXV Chair

Dr Lukas Rüber | Naturhistorisches Museum der Burgergemeinde Bern | Bernastrasse 15 | 3005 Bern | Switzerland phone: +41 (0)31 350 72 82 | email: lukas.ruber@nmbe.ch

XV European Congress of Ichthyology, 7-11 September 2015, Porto, Portugal www.ciimar.up.pt/ecixv Lukas Ruber <lukas.ruber@nmbe.ch>

Stockholm MammalBiol Aug16-22 EarlyBird ClosingSoon

Dear everyone, This is a reminder that Early Registration for the 7th European Congress of Mammalogy closes on the 15th of April.

The conference will be held in Stockholm, Sweden, between 17-21 August 2015. Visit the conference website to find out more about the conference, as well as to register and submit an abstract: www.zoologi.su.se/ecm7 The deadline for abstract submissions is 15th of May. Late Registration (at a higher registration fee) will be open until the 16th of June.

The aim of the European Congresses of Mammalogy is to foster communication between researchers working on issues of mammalian biology in the European arena, as well as providing a venue for the broad dissemination of European mammal research. The relaxed and friendly atmosphere of these congresses provides an excellent opportunity to hear the latest developments in various fields of mammalogy, to share research experience and expertise, and to develop new and closer contacts with colleagues from different countries.

The conference will cover a broad range of topics in mammal biology, including Species Interactions, Population Genetics, Conservation Biology and Ecology & Landscapes.

Preliminary list of Plenary & Keynote speakers: David Macdonald, University of Oxford Heikki Henttonen, Finnish Forest Research Institute Anjali Goswami, University College London Xavier Lambin, University of Aberdeen Jennifer Leonard, Doñana Biological Station Tim Clutton-Brock, University of Cambridge Henrik

Andrén, Swedish University of Agricultural Sciences Mike Bruford, Cardiff University Ian Barnes, Natural History Museum London Bodil Elmhagen, Stockholm University Kjell Danell, Swedish University of Agricultural Sciences Nigel Yoccoz, Tromso University Greger Larson, Oxford University Urs Breitenmoser, Bern University Selina Brace, Natural History Museum London Arild Landa, Norwegian Institute for Nature Research

Facebook: https://www.facebook.com/ecm7stockholm Twitter: https://twitter.com/ECMSthlm2015 Instagram: https://instagram.com/ecmsthlm2015/ Love Dalén <Love.Dalen@nrm.se>

UBrno PlantGenetics Sep7-10

Mendel Museum of Masaryk University would like to invite you to the conference Research in plant genetics (From Mendel's peas to the present) which will be take place 7th september - 10th september 2015 in Mendel Museum of Masaryk University in Brno, Czech Republic.

Conference webside: http://www.mendelgenius.com/-en/the-conferences/research-in-plant-genetics-from-mendels-peas-to-the-present Sections/Topics: Mendel's factors today >From Mendel to population genomics Where is the message? - Genome structure Non-Mendelian genetics Reproduction without sex >From genes to phenotypes The impact. Plant breeding and agriculture

Invited/keynote speakers: Ueli Grossniklaus, University of Zurich, Swiss Edward Buckler, Cornell University, USA Peter van Dijk, KeyGene, Netherlands Catherine Rameau, INRA, Versaille, France Jonathan Wendel, Iowa State University, USA Dani Zamir, Hebrew University, Jerusalem, Israel Burstin J., INRA Dijon, France Ellis N., CGIAR, India Varshney R., ICRISAT, India

Important dates: Registration deadline: 30th April 2015 Abstract submission deadline: 30th April 2015

Registration and Call for Papers: Through attached registration form or webside http://-www.mendelgenius.com/en/the-conferences/research-in-plant-genetics-from-mendels-peas-to-the-present Contact: Mendel Museum of Masaryk University Mendlovo nám. 1a 603 00 Brno Czech Republic e-mail: info@mendelmuseum.muni.cz phone: 00420 549 496 669 www.mendelmuseum.muni.cz www.mendelgenius.com We are looking forward to see you in Brno, Czech Republic!

"Wendel, Jonathan F [EEOBS]" <jfw@iastate.edu>

UCalifornia Berkeley EvoDevo Aug5-9 Deadlines

Secure your spot now at the EvoDevo Event of the Year!

1) Join PanAm EvoDevo.

2) Register and submit an abstract - NOW.

3) Attend the meeting " August 5th in Berkeley, CA.

Registration for the inaugural meeting of the Pan American Society for Evolutionary Developmental Biology is open! Register and Submit your Abstract by April 1 to secure your spot. Mark your calendars for the meeting dates, 5-9 August, 2015.

There are only a few spaces left to attend, and a few days left to submit your abstract!!!

The registration deadline is April 1, 2015. Click here to register.

Follow us: @EvoDevoPanAm Join Us: #EvoDevo15

A few meeting highlights:

- Invited speakers: Chris Amemiya, Alexa Bely, Sean Carroll, Rachel Collin, Kim Cooper, Tamara Franz-Odendaal, Matt Gibson, Angela Hay, Vivian Irish, Catherine Linnen, Mark Martindale, Jose Xavier Neto, Natalia Pabón-Mora (Early Career Award Recipient), Richard Palmer, Rudy Raff (Pioneers Award recipient), Bob Reed, Matt Rockman, Neelima Sinha, Stacey D. Smith, Ralf Sommer, Mansi Srivastava, James Umen

- Selected abstracts chosen for presentations by members; faculty, postdocs and students encouraged to apply.

- Posters on display throughout the entire meeting

- Poster prizes for PhD students and postdocs

- Child Care reimbursement available!! Bring the whole family.

All details about registration, accommodation options, childcare services, and the conference program are available at the following website: http://-/www.evodevopanam.org/meetings–events.html Support the Society and Become a Member, and enjoy the benefits of being part of the fast-growing and intellectually invigorating EvoDevo community!! To learn more about PASEDB, visit the following website: http://-

www.evodevopanam.org/ The Organizing Committee and the PanAm SEDB Executive Council look forward to welcoming you to Berkeley in August!

Ehab Abouheif Karen Sears Nipam Patel Chris Lowe

cdspecht@berkeley.edu

UGottingen EcoGenetics Aug31-Sep4

Dear colleagues,

>From August 31st to September 4th, 2015, the University of Göttingen will host the 45th Annual Meeting of the Ecological Society of Germany, Austria and Switzerland. The meeting will take place in Göttingen, Germany.

There will be the "Ecological Genetics and Epigenetics in the Omics Era" session among other sessions at this meeting. Those who are willing to participate, either with a talk or a poster, are very welcome to submit their abstracts. Deadline for early registration fee and abstract submission is May 15th. There will be also several attractive excursions and pre-meeting workshops.

See the conference organizers' website for details on deadlines, fees and registration/abstract submission procedures:

http://www.gfoe-2015.de< http://www.gfoe-2015.de/ > http://www.gfoe-2015.de/index.php?cat=deadlines http://www.gfoe-2015.de/index.php?cat=registration The conference homepage also includes instructions on how to prepare your oral presentation or poster. Feel free to contact me if you have any questions or comments regarding the ecological genetics and epigenetics session. We are looking forward to having your abstract submissions and to meeting you in Göttingen in late August this summer!

Thank you for your consideration,

Prof. Dr. Konstantin (Kostya) V. Krutovsky Department of Forest Genetics and Forest Tree Breeding Büsgen-Institute University of Göttingen Büsgenweg 2 D-37077 Göttingen Germany E-mail: kkrutov@gwdg.de http://www.uni-goettingen.de/en/-414626.html +49-(551)-393-35-37 (off.) +49-(551)-39-83-67 (fax)

"Krutovsky, Konstantin" <konstantin.krutovsky@forst.uni-goettingen.de>

UGraz Austria CichlidEvolution Sep6-9

CICHLID SCIENCE 2015

We are pleased to announce that the 4th Cichlid Science meeting will take place from Sept 6 to Sept 9, 2015, at the University of Graz, Austria.

We invite all cichlid scientists to come and present their work. We also welcome everybody interested in cichlids and cichlid research to attend the meeting.

The Cichlid Science meeting series was launched in 2010 at the University of Basel. After subsequent meetings in Leuven and Bangor, it is now our pleasure to host this year?s meeting in Graz. Cichlid Science meetings provide a relaxed and informal ambience promotive of stimulating discussions, exchange of ideas and networking among scientists from the many different fields of cichlid research.

The deadline for registration and abstract submission is June 15; the registration fee is euro 70.

Please consult the meeting website for information on the venue, keynote speakers, program, registration etc. http://www.uni-graz.at/ ~ sefck/CichlidScience/-home.htm The organizers look forward to welcoming you in Graz!

Kristina Sefc (kristina.sefc@uni-graz.at), Stephan Koblmueller(stephan.koblmueller@uni-graz.at)

Univ.-Prof. Dr. Kristina Sefc Institut für Zoologie Karl-Franzens-Universität Graz Universitätsplatz 2, 8010 Graz +43-(0)316-380 5601

"Sefc, Kristina (kristina.sefc@uni-graz.at)" <kristina.sefc@uni-graz.at>

UGroningen AdaptiveLife Apr22

At the University of Groningen a new ambitious programme has been developed, called Adaptive Life. Adaptation is a characteristic phenomenon of all living systems and crucial in a changing world. The Adaptive Life programme aims at studying adaptation by integrating

mechanistic, e.g. physiological and developmental, perspectives with ecological and evolutionary approaches. To make this program a success two institutes, the Centre for Behavioural Neurosciences and the Centre for Ecological and Evolutionary Studies, recently merged to form the Groningen Institute for Evolutionary Life Sciences (GELIFES). In addition, two competence centers have been established to extend connections with societal partners: the Sustainable Landscape Competence Centre and the Brain and Behaviour Competence Centre. The programme will receive an investment of over 10 million euros for the next five years from the University of Groningen and the theme Adaptive Life is now one of the four focus areas of the Faculty of Mathematics and Natural Sciences.

The kick-off meeting of the institute and its new programme is on April 22, 2015 in Groningen, The Netherlands. Participation is free but registration is required. For the full programme and further information see www.rug.nl/gelifes-symposium or contact gelifes-office@rug.nl.

GELIFES Office <gelifes-office@rug.nl>

UHawaii Hilo ConservationBiol Apr20-21

Annual TCBES Research Symposium

April 20th and 21st at the University of Hawaii at Hilo

This event is free and open to the public and features the conservation biology and environmental science research of students, faculty and Federal and State agency partners with research focused in Hawaii and the Pacific.

This year's symposium features:

-Our keynote speaker, UC Berkeley's Dr. Rosemary Gillespie.

-A silent auction, featuring an exciting and diverse selection of items donated by TCBES students and faculty, our âohana and friends, and many local businesses.

-Free lunch on Monday; catering provided by Aloha Monday's and Tina's Garden Gourmet Cafe.

-Free refreshments throughout the symposium, with thanks to Island Naturals, PÄpaâa Palaoa Bakery, Hilo Coffee Mill, and others.

We will be providing eco-friendly compostable paper goods courtesy of Sustainable Island Products, but please help the âÄina by bringing your own reusable dishes!

For our presentation schedule or more information about the symposium, check out our website: http://-tcbes.hilo.hawaii.edu/symposium2015/ . The schedule can be found here

http://tcbes.hilo.hawaii.edu/symposium2015/-schedule.html Everyone is welcome!

Mahalo, hope to see you there!

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://hilo.hawaii.edu/-depts/biology/ https://sites.google.com/a/hawaii.edu/-price-lab-at-university-of-hawaii/ donaldp@hawaii.edu

UHuddersfield ProtistEvolution Apr15-17 RegExtended

BSPB Spring meeting 15-17th April, Huddersfield

Early bird registration extended until Monday 6th April, contributed talk submissions encouraged, student bursaries and talk slots still available. For more info go to *www.protist.org.uk < http://www.protist.org.uk > *

Registration forms and abstracts should be sent to Martin Carr (martcarr74@gmail.com)

Wednesday 15th

15:00 Registration

17:00 Welcome reception

18:30 *Will Ratcliff* - Exploring the origin of multicellularity through experimental evolution

Thursday 16th

08:45 Experimental evolution symposium

Mike Brockhurst - The experimental evolution approach

Ville Friman - Experimental evolution with protozoa - where are we now?

Chris Lowe, Jo Marrison, & Duncan Cameron - Genotypes to phenotypes in protists

Oliver Kaltz - Adaptation to varying speeds of environmental change in experimental microcosm populations of the ciliate *Paramecium caudatum*

Kai Lohbeck - The adaptive potential of marine phytoplankton to climate change

13:00 Contributed talks

15:00 Student talks

Friday 17th

09:00 Multicellularity symposium

Iñaki Ruiz-Trillo - What protists are telling us about the origin of metazoan multicellularity

Daniel Richter - The gene content of diverse choanoflagellates illuminates animal origins

Frank Nitsche - Everything you always wanted to know about choanoflagellates (but never dared to ask)

* Pauline Schaap - *Evolution of multicellularity in the Amoebozoan lineage

* J. Mark Cock* - Molecular factors underlying the emergence of complex multicellularity in the brown algae

Ewan Minter

Post-Doctoral Research Associate in Evolutionary Biology

Department of Biology University of York Wentworth Way York YO10 5DD

Email: ewan.minter@york.ac.uk Tel: +447525062408

http://scholar.google.co.uk/citations?user=-JHuYj64AAAAJ&hl=en Ewan Minter <ewan.minter@york.ac.uk>

UMichigan SSB Standalone Meeting May20-22

The deadline for registration for the Society of Systematic Biologists (and iEvoBio) meeting at the University of Michigan is *May 1st* Please see the website (http://-/ssb2015standalone.weebly.com/) for details about the program, workshops, and registration. We hope to see you there!

dewitt832@gmail.com

Vairao Portugal Biodiversity Jun1-2

Trends in Biodiversity and Evolution (TiBE) Conference 2015 Global Biodiversity Change: From genes to ecosystems June 1-2, 2015 @ CIBIO-InBIO, VairÃ£o, Portugal

The current unprecedented rates of biodiversity loss, from genes and species to communities and ecosystems, have been related to the effects of multi-scale environmental changes. The Earth's biosphere is currently experiencing exceptionally high rates of ecosystem degradation and species extinction, largely due to human activities and other anthropogenic pressures on the global environment. This rapid decline of biodiversity has been recognized at several scales and across regions, and has been widely discussed for at least two decades in the scientific community. It is nowadays considered one of the most important themes of the environmental sustainability agenda, particularly since reductions in current species diversity can lead to profound alterations in the functioning of ecosystems well as in the resulting societal benefits.

The TiBE2015 conference, organized by CIBIO-InBIO's PRECOL (http://cibio.up.pt/research-groups-1/details/biocon) and APPLECOL (http://cibio.up.pt/-research-groups-1/details/applecolgroups), will provide a broad perspective on recent advances in the study of the ecological impacts of social and economic drivers, land-use dynamics, biological invasions, species range and niche dynamics, genetic structure and flow, and other dimensions of change in ecosystems, landscapes and their biodiversity. Furthermore the conference will allow a direct link with applied ecology including: i) the detection, interpretation and forecast of changes in a given territory; ii) the anticipation of trends in the patterns of drivers of ecological change, and the early detection of biodiversity responses and ecosystem changes; and iii) the support to model-assisted frameworks for cost-efficient conservation and monitoring.

IMPORTANT DATES Abstract submission deadline: May 1, 2015 Abstract acceptance / Early registration deadline: May 20, 2015

To know more about this event, please visit CIBIO-InBIO's website (https://cibio.up.pt/tibe/details/-tibe2015) or contact us at tibe2015@cibio.up.pt.

CIBIO DivulgaçÃ£o

Vienna MolEcolEvol Jun22-24

Molecular Ecology and Evolution Conference

Venue: Vienna

Dates: June 22nd - 24th 2015

Confirmed speakers:

Par Ingvarsson Christian Hardtke Elizabeth Zimmer Michael Gruenstaeudl Barbara Mable Yuanwen Teng Peter Hollingsworth Rob Lanfear Steven Maere Bernhard Haubold Thomas Staedler Adam Eyre-Walker

Molecular Ecology & Evolution is a field of evolutionary biology, concerned with applying molecular population genetics, molecular phylogenetics, and, more recently, "Omics" to traditional ecological questions. The main goal of the International Conference "Molecular Ecology & Evolution" is to review the state of the art and progress in the knowledge of molecular evolution, species diagnosis, conservation and assessment of biodiversity, species-area relationships, and behavioral ecology, to set research priorities for the next era of research.The conference will cover the following research topics:

- Population and Landscape Genetics - Genetic Analysis of Populations - Genetic Variation and Diversity - Molecular Evolution - Phylogenetics and Phylogeography - Molecular Approaches to Behavioral Ecology - Conservation Genetics & Genomics - Applied Molecular Ecology - Molecular Tools in Ecology

The program of Molecular Ecology & Evolution Conference combines plenary lectures and session talks, posters sessions, special sessions on career development, and tours of the beautiful city of Vienna. Approximately 100 participants are expected. A number of presentations will be selected from the abstracts.

Vienna is considered one of the most beautiful cities in the world, situated in the heart of Europe. Due to its geographic and geopolitical location, Vienna has become a popular conference place in recent years. Today, Vienna offers a range of sights from old historical palaces, classical concerts and outstanding opera performances to typical Viennese coffee houses and restaurants - all brought together in incomparable Viennese harmony. The International and Local Organizing Committees have compiled a well-balanced agenda with state-of - the -art professional highlights and social events to be remembered.

For the first time, Vienna Conference Series offer Special Career & Job Sessions and Organized Meetings with Potential Employees and Employers! Take the unique opportunity to find the GREAT JOB and Outstanding Researchers for Academy and Industry Labs! These sessions offer the unique chance for young researchers to present their portfolio (talks for 5-7 min.) and for academy and industry - talks on their areas of research and business (talks for 5-7 min.)

Vienna Conference Series also offer the great opportunity to get FREE REGISTRATION, if you attract 5 more colleagues to attend the meeting, independent on the institution and location.

Finally, if you are not able to attend the Conference, you can still submit your abstract and we are happy to publish it in the abstract book for just 50 euro !

Further details, including how to register, can be found at http://viscea.org/index.php/molecular-ecology/general-information/welcome Adam Eyre-Walker

A.C.Eyre-Walker@sussex.ac.uk

BuenosAires ArachnidSystematics

23 April 2015

Call for a doctoral candidate - MACN, Buenos Aires, Argentina, iv.2015

The laboratory of systematics and biology of arachnids at the Argentinean Museum of Natural Sciences is looking for a candidate for a doctoral fellowship of CONICET/FONCyT. Our lab has a strong background in taxonomic and phylogenetic studies of spiders (Martín Ramírez), scorpions (Andrés Ojanguren) and opilionids (Abel Pérez González) with access to scanning electron microscope, molecular laboratory, library, and an excellent collection of arachnids. Our group has research funding and has collaborations with research teams in arachnology around the world. All this, combined with our strong relationships with the major arachnological collections and curators worldwide, offers an exceptional atmosphere and a good basis for developing a career in arachnology.

The objective of this call is to select a candidate who will submit a proposal for the 2015 call of doctoral fellowships from CONICET. Eventually, the candidate of the doctoral fellowship could benefit from a FONCyT fellowship (PICT project) that has been submitted and is currently being considered for funding.

Those who are interested must send a complete CV (including degree qualifications), and a letter of intention. After a first round of evaluation the top candidates will be called for a personal interview or videoconference. The deadline for application is May 20, 2015 and results will be communicated on May 25. The selected candidate will submit a proposal (in June) to the 2015 call for fellowships of CONICET and awards will be effective during the period of April 2016-2021.

Details: Doctoral candidate for systematics and biogeography of opilionids. We seek one candidate with interest in doing a PhD on taxonomic, systematic and biogeographic aspects of Opiliones (Triaenonychidae) from the Andean-Patagonian region. The purpose is to conduct a study on the processes of diversification and divergence times in this area, using multiple taxa and independent data sources (morphological and molecular). The student is expected to conduct fieldwork in Argentina and Chile, and obtain and analyze morphological and molecular data under the direction of Abel Pérez González (Gonzalo Giribet, Harvard, MCZ will act as co-director for molecular aspects). Specific inquiries concerning this call and submission of application documents should be directed to Abel Pérez González, email: abelaracno@gmail.com

Martín J. Ramírez Curador General & División Aracnología Museo Argentino de Ciencias Naturales - CONICET Av. Angel Gallardo 470, C1405DJR Buenos Aires, Argentina tel +54 11 4982-8370 int. 169 fax +54 11 4982-6670 int. 172

Sara Ceccarelli <saracecca@hotmail.com>

ClemsonU ArthropodSystematics

Graduate position in arthropod systematics and biodiversity

The Caterino Arthropod Biodiversity Lab at Clemson University is looking for highly motivated graduate students (M.S. or Ph.D.) for the Fall 2015 or Spring 2016 semester. Specific projects are negotiable, but will include collection-based elements to address questions centering on arthropod systematics and biodiversity. Projects focused on Coleoptera of southeastern North America, 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, interest in entomological collections, and a love of arthropods and entomological fieldwork. Prospective students will have to qualify for admission to the entomology graduate program in the Department of Agricultural and Environmental Sciences (AES). Up to three years of funding is available through an assistantship to upgrade the Clemson University Arthropod Collection.

Interested students are strongly encouraged to contact Dr. Caterino before applying to discuss possible research projects.

For information on the PI and the lab: https://-sites.google.com/site/caterinolab/ The Clemson University Arthropod Collection: https://sites.google.com/-site/clemsonarthropodcollection/ The Entomology graduate program: http://www.clemson.edu/graduate/-academics/program-details.html?m_id=148 Michael S. Caterino John and Suzanne Morse Chair of Arthropod Biodiversity Director, Clemson University Arthropod Collection Department of Agricultural and Environmental Sciences MAIL: 277 Poole Agricultural Center OFFICE: E-254 Poole Agricultural Center Clemson University Clemson, SC 29634-0310 mcateri@clemson.edu Office phone: (864) 656-3105

mcateri@clemson.edu

DeakinU EvolutionInvasionSpecies

GRADUATE POSITION

A PhD scholarship on invasion ecology is available in the Rollins lab in the Centre for Integrative Ecology at Deakin University.

Project: Although invasive species are a massive threat to biodiversity, and costly to society, we still do not understand the evolutionary processes that shape invasions. Invasive populations often show rapid evolutionary change in novel environments but attempts to identify the underlying genetic basis of these changes have been largely unsuccessful. This PhD is part of a larger project exploring an innovative and untested alternative possibility: that invader evolution is primarily driven by epigenetic change. Using an iconic Australian invasive species, the cane toad, we will conduct a multi-generational experiment to manipulate DNA methylation levels and quantify the effects on phenotypic traits important to invasion and which have been shown to change across the introduced range in Australia, including traits related to dispersal ability, immune function and personality. We will also be investigating the plasticity of these traits and determining whether this relates to changes in epigenetic state. The larger project is well-resourced and multi-disciplinary, combining the efforts of molecular ecologists at Deakin University with invasion ecologists (Professor Rick Shine and his team) from the University of Sydney.

Selection criteria: This PhD project will be primarily based at our collaborator?s field station in the Northern Territory but will also include time at the Deakin University Geelong campus. We seek an ecologist with an interest in epigenetic inheritance who will work closely with team members who are conducting genetic/epigenetic analyses. There will be flexibility to tailor the PhD project to your specific interests if they are aligned with our research direction.

We seek someone who is hard-working and enthusiastic about invasion ecology and herpetology. The ideal candidate will have some field experience, a demonstrated ability to work independently and well-developed organisational skills. Preference will be given to applicants with at least one first-authored publication.

Scholarship/application details: The successful candidate will be awarded a PhD stipend of AUD$25,392

per annum (tax-free) over three years. Applicants should send an email to Dr. Lee Ann Rollins (lee.rollins@deakin.edu.au) including: 1) a CV; 2) academic record (subjects and marks); 3) a one-page summary of your research interests and career goals; and 4) details of 3 referees (including any previous research supervisors). Closing date for applications is 22nd May.

Dr. Lee Ann Rollins

Research Fellow

School of Life and Environmental Sciences Faculty of Science, Engineering and Built Environment

Deakin University, Pigdons Road, Geelong VIC 3217

+61 3 5227 2084

lee.rollins@deakin.edu.au www.deakin.edu.au Deakin University CRICOS Provider Code 00113B

Lee Rollins <lee.rollins@deakin.edu.au>

ExeterU PathogenHostSwitching

NERC PhD studentship: Jumping the species barrier: understanding how pathogens switch hosts Ref: 1845

About the award The University of Exeter is inviting applications for this NERC-funded PhD studentship to commence as soon as possible. For eligible students the studentship will cover UK/EU tuition fees plus an annual tax free stipend of at least £13,863pa for three and a half years. The student would be based in the Centre for Ecology and Conservation in the College of Life and Environmental Sciences at the Penryn Campus in Cornwall.

Academic Supervisors: Dr Camille Bonneaud (University of Exeter, Penryn Campus) Prof Angus Buckling (University of Exeter, Penryn Campus) Project Description: Emerging infectious outbreaks are a major threat to humans, domestic animals and wildlife. A better understanding of how pathogens switch hosts and subsequently adapt to their novel host represents an exciting field in evolutionary biology with significant ramifications for epidemiology, conservation and medicine. In this project, the student will have access to natural populations of an emerging bacterial pathogen of wildlife, as well as established lab host-pathogen systems (e.g., bacteria-phage) to gain deeper insights into the processes facilitating host switching and pathogen adaptation to their novel hosts.

Entry requirements: Applicants for this studentship must have obtained, or be about to obtain, a First or Upper Second Class UK Honours degree, or the equivalent qualifications gained outside the UK, in an appropriate area of science or technology. This studentship will be funded by the Natural Environment Research Council (NERC) and is only available to UK and EU nationals. You must have resided in the UK for three years prior to starting the studentship to receive funding for tuition fees and a stipend. If you are an EU national and have not resided in the UK for the three years prior to the start of the studentship you would not be eligible for a stipend, so you would need to have an alternative source of funding for your living costs. Candidates from outside the EU are not eligible for this studentship. For detailed guidance about eligibility please refer to the Research Councils UK (RCUK) Terms and Conditions for Training Grants: TGC 6 Student eligibility < http://www.rcuk.ac.uk/RCUK-prod/assets/documents/documents/TermsConditionsTrainingGrants.pdf >.

Summary:

Application deadline: 26th May 2015 Number of awards: 1 Value: £13,863 plus UK/EU tuition fees for eligible students Duration of award: per year Contact: CLES Postgraduate Research office: +44 (0)1392 725150 +44 (0)1392 725150/723706/723310 cles-studentships@exeter.ac.uk

How to apply:

Please be aware you will be asked to upload the following documents: * CV * Letter of application (outlining your academic interests, prior research experience and reasons for wishing to undertake the project). * Transcript(s) giving full details of subjects studied and grades/marks obtained (this should be an interim transcript if you are still studying) * 2 references from referees familiar with your academic work (if your referees prefer, they can email the reference direct to cles-studentships@exeter.ac.uk. If we don't receive your references, we will not request them unless you have been shortlisted) * If you are not a national of a majority English-speaking country you will need to submit evidence of your proficiency in English (for further details of the University's English language requirements please see http://www.exeter.ac.uk/postgraduate/englishrequirements/research/)

The closing date for applications is midnight on 26 May 2015. Interviews will be held on the University of Exeter Penryn Campus the week commencing June 8th. If you have any general enquiries about the application process

please email cles-studentships@exeter.ac.uk or phone +44 (0)1392 725150 +44 (0)1392 725150/723706/723310. Project specific queries should be directed to the supervisor.

For the full ad and application form go to: http://-www.exeter.ac.uk/studying/funding/award/?id=1845
"Bonneaud, Camille" <C.Bonneaud@exeter.ac.uk>

Helsinki TheoEvoDevo

Graduate position for the completion of a PhD in theoretical evolution and development

1.Job/ project description:

The main objectives of the PhD project is to:

a) Develop mathematical models of the relationship between genetic and phenotypic variation (or genotype-phenotype map)

b) Understand how this relationship affects morphological evolution.

c) Develop models about the evolution of gene networks and embryonic development in general.

A core concept of current evolutionary biology is the genotype-phenotype (GP) map, which connects genetic variation to phenotypic variation and to potential for evolutionary change. The aim of the project is to develop or investigate models of the GP map that can be related to specific biological study systems or specific evolutionary questions investigated by the group. There is considerable flexibility as to the exact topics, and the interests of the candidate will be important in defining the study objects.

These models can be abstract or linked to specific biological systems. The biotechnology institute includes a range of experimental biologitst working on several systems. The supervisor of the theoretical aspects will be Dr. Salazar-Ciudad but the PhD would include close collaboration with Jukka Jernvall group and would include collaboration with developmental biologists, bioinformaticians, paleontologists and other evolutionary and systems biologists. The work may also include, optionally, collaboration, and spending some time, in Barcelona.

The modeling can focus on gene network regulation, cell-cell communication, cell mechanical interactions and developmental mechanisms in general and, optionally, artifical in silico evolution.

2. Requirements:

The applicant must be a biologists, preferably with a strong background in either evolutionary biology, developmental biology, systems biology or theoretical biology. Some knowledge of ecology, zoology, cell and molecular biology are also desirable.

Bioinformaticians, systems biologists or computer biologists that do not have a degree in biology (e.g. Computer scientists, physicists or engineers) would not be considered (not replied).

Programming skills or a willingness to acquire them is required.

The most important requirement is a strong interest and motivation on science, gene networks and evolution. A capacity for creative and critical thinking is also desirable.

Prior experience in evolutionary or developmental biology is an advantage, and the candidate may be required to do some programming (although how much may depend on the exact project).

3. Description of the position:

The fellowship will be for a period of up to 4 years (100% research work: no teaching involved).

The purpose of the fellowship is research training leading to the successful completion of a PhD degree.

Salary according to Finnish PhD student salaries.

4. The application must include:

-Application letter including a statement of interests
-CV (summarizing degrees obtained, subjects included in degree and grades, average grade)

-Application should be send to Isaac Salazar-Ciudad by email:

isaac.salazar@helsinki.fi

Foreign applicants are advised to attach an explanation of their University's grading system. Please remember that all documents should be in English.

5. Examples of recent publications by Isaac Salazar-Ciudad group.

-Salazar-Ciudad I1, Marín-Riera M. Adaptive dynamics under development-based genotype-phenotype maps. Nature. 2013 May 16;497(7449):361-4.

-Salazar-Ciudad I, Jernvall J. A computational model of teeth and the developmental origins of morphological variation. Nature. 2010 Mar 25;464(7288):583-6.

6. Interested candidates should check our group webpage:

http://www.biocenter.helsinki.fi/salazar/index.html The deadline is 15 of June (although candidates may be selected as they come).

Isaac Salazar-Ciudad: isaac.salazar@helsinki.fi

isalazar@mappi.helsinki.fi

KAUST EcolEvolutionaryGenomics

Postdoctoral and PhD Fellowship in Bioinformatics and Ecological/Evolutionary Genomics and Epigenomics of Coral Reef organisms.

A Postdoctoral and a PhD Position are currently available in the Integrative Systems Biology lab at the King Abdullah University of Science and Technology (KAUST)

In the Integrative Systems lab we work on many different and diverse projects applying computational and lab-based analyses using new technology to understand biological processes on the molecular level. We are part of the KAUST Environmental Epigenetics program (KEEP).

http://systemsbiology.kaust.edu.sa http://-keep.kaust.edu.sa The largest and newest projects in the lab focus on trans-generational adaptation to fast changing environments due to climate change and in particular on the understanding of the molecular regulatory mechanisms at the base of this adaptation. We mainly study Coral Reef organisms such reef fishes and marine sponges. We are seeking a highly motivated postdoc or PhD student to work on the computational analysis of long-term experimental projects on various marine organisms. We are using Next Generation Sequencing approaches (mostly Illumina based) in order to collect and integrate genome-wide measurements such as genome, transcriptomics, proteomics, and methylomes sequencing datasets.

KAUST is an extremely diverse environment and our lab is currently made up of people from 12 different countries of origin. Apart from being a new University Campus with cutting-edge technologies, it is also a community. Within KAUST there is the University campus, two large sports centers, many restaurants, a town center, a cinema, a marina, diving facilities (it is located directly on the Red Sea coast), a beach with water sports facility etc. http://www.kaust.edu.sa/ Requirements:

Postdoc candidates should have or be close to obtaining a Ph.D. or equivalent degree. PhD students should have finished or be about to finish their Masters degree.

Preferred degrees are in bioinformatics, computational biology, computer science, molecular biology, or a closely related field. Candidates with a background in evolutionary biology and Next Generation Sequencing approaches are particularly encouraged to apply.

Programming skills and experience in the application of computational methods to genomic data are preferred. A proficient level of English is required and good communication and writing skills are a must.

Postdoc salary is from 55.000$ per year upwards depending on experience. The appointment is for two years initially and can be extended for another year. Generous furnished housing and health care is provided, plus an annual airfare to the country of origin and a large relocation fee are paid.

PhD fellowship: 25.000$ per year and 30.000$ when the student becomes a PhD candidate. Furnished housing and health care is provided, plus an annual airfare to the country of origin and a relocation fee are paid.

Interested applicants can send a CV, a letter of interest, and the names of two potential references to Timothy Ravasi: timothy.ravasi@kaust.edu.sa.

If you have any questions about life in KAUST and Saudi Arabia, please feel free to either contact myself or a female postdoc in our lab: celia.schunter@kaust.edu.sa

Looking forward to hearing from you.

Timothy Ravasi Associate Professor of Bioengineering Associate Professor of Computer Science Division of Biological and Environmental Sciences & Engineering Division of Applied Mathematics and Computer Sciences King Abdullah University of Science and Technology Thuwal 23955-6900 Kingdom of Saudi Arabia Office +966-2-808-2387

Celia Schunter <celiaschunter@gmail.com>

LeibnizInst EvolutionDisease

The Leibniz Research Alliance INFECTIONS'21 funded by the Leibniz Association has been formed by the Research Center Borstel-Leibniz Center for Medicine and Biosciences (FZB, www.fz-borstel.de) together with 13 institutions of the Leibniz association (Leibniz Institute for Agricultural Engineering (ATB, www.atb-

potsdam.de), Bernhard Nocht Institute for Tropical Medicine (BNITM, www.bnitm.de), Leibniz-Institute DSMZ-German Collection of Microorganisms and Cell Cultures (DSMZ, www.dsmz.de), GESIS-Leibniz Institute for the Social Sciences (GESIS, www.gesis.org), GIGA German Institute of Global and Area Studies (GIGA, www.giga-hamburg.de), Leibniz Institute for Natural Product Research and Infection Biology-Hans Knöll Institute (HKI, www.leibniz-hki.de), Heinrich-Pette-Institute-Leibniz Institute for Experimental Virology (HPI, www.hpi-hamburg.de), Leibniz Institute of Freshwater Ecology and Inland Fisheries (IGB, www.igb-berlin.de), Leibniz Institute for Zoo and Wildlife Research (IZW, www.izw-berlin.de), Potsdam Institute for Climate Impact Research (PIK, www.pik-potsdam.de), Leibniz Institute for Tropospheric Research (TROPOS, www.tropos.de), Leibniz Centre for Agricultural Landscape Research (ZALF, www.zalf.de), Leibniz Center for Tropical Marine Ecology (ZMT, www.zmt-bremen.de)) and 3 external partners (division of social sciences of the Hamburg University (UHH, www.wiso.uni-hamburg.de), the Federal Research Institute for Animal Health (FLI, www.fli.bund.de) and the London School of Hygiene and Tropical Medicine (LSHTM, www.lshtm.ac.uk)).

Despite significant progress in the combat of infectious diseases the past century, they remain a major challenge for human health worldwide. The emergence of novel infectious agents and multi-drug resistant microbial strains, ecological alterations caused by climate change and human activities such as re-naturation of ecosystems, provide ecological conditions facilitating the spread of important infections. Socio-economic determinants such as income, nourishment, housing and working conditions and access to health systems may influence the spread and outcome of infectious diseases.

To address these issues, INFECTIONS'21 identified 4 cooperative and trans-disciplinary research projects, which will be performed by Interdisciplinary Research Groups (IRGs) spanning biomedical, ecological, socio-economic and political sciences with the goal of linking the diversity of expertise to study the spread of infectious diseases by looking at biotic, abiotic and social determinants. We therefore seek to fill the following positions:

- 1 doctoral position in social science research on tuberculosis transmission

- 1 doctoral position in evolutionary ecology of water borne diseases

- 1 doctoral position in medical entomology

- 1 doctoral position in aerosol transmission properties of human pathogens

Specifically:

1 doctoral position in social science research on tuberculosis transmission (IRG1) - GESIS-FZB

Specific tasks: Address the transmission of Mycobacterium tuberculosis in population groups which are only partly covered by public health care. Conduct an empirical study to collect data on the background of and conditions for infection transmission in order to identify starting points for intervention measures. The tasks of the doctoral student include conceptualization and implementation of the qualitative and quantitative parts of the empirical study as well as data analysis and publication of results. Requirements: The successful candidate will have an above-average degree in sociology, psychology, social sciences or a related subject, proven knowledge of social research methods, extended knowledge of a statistical software package (e.g. STATA, SPSS). Experience in planning and implementation of empirical studies are of advantage, very good written and spoken command of German and English, good organization skills, ability to work independently as well as in a team are essential. It is expected that the doctoral student interacts with scientists from a wide variety of fields.

Position IRG1 will take place primarily under the auspices of GESIS, GIGA, HPI, HKI and FZB although interaction with other LFV '21 research groups will be strongly encouraged. The doctoral student will have primary desk facility space at GESIS, location Mannheim (Dr. Jette Schröder) and will spend time at the FZB (Prof. Stefan Ehlers).

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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

MaxPlanckInst 10 HumanHistory

*10 PhD positions at the Max Planck Institute for **the Science of Human History*

The *Archaeogenetics* department at the *Max Planck Institute for the Science of Human History in Jena*, Germany, is offering up to 10 PhD positions beginning October 2015. The overarching research topic at the institute is the use of novel scientific approaches from high throughput sequencing of *ancient DNA* *from* *human populations* and their *pathogens* to explore research questions related *to human history*,

gene-culture coevolution, and adaptation to infectious disease. The institute hosts a multi-disciplinary research team and is looking for students from a variety of backgrounds including, but not restricted to, *molecular biology, bioinformatics, microbiology, chemistry, biochemistry, mathematics, physics, computer science, anthropology and archaeology. *Students holding a Masters degree (or equivalent) with a proven record of success in their discipline and a genuine interest in examining questions related to human history are encouraged to apply. *Deadline for applications is the 31st of May 2015.*Please apply online at _https://s-lotus.gwdg.de/-mpg/mjws/ag_phd_2015.nsf/registration_ For detailed information on the application procedure please visit our website: _http://www.shh.mpg.de/phd_archeogenetics_ Dr. Karin Groten

Forschungskoordinatorin / Scientific Coordinator Max-Planck-Institut f[1]r Menschheitsgeschichte / Max Planck Institute for the Science of Human History Kahlaische Strasse 10 07745 Jena GERMANY T: +49-3641-686 950 F: +49-3641-686 929 groten@shh.mpg.de

Karin Groten <groten@shh.mpg.de>

MemorialU SalmonConservation

Evolutionary and ecological impact of the escape of farmed salmon.

As part of the NSERC Strategic Grant 2 Ph.D. positions (funded for 4 years) are available under the co-supervision of Dr. Ian Fleming of Memorial University's Department of Ocean Sciences and Dr. Ian Bradbury of the Department of Fisheries and Oceans.

Escapes of farm salmon are both an economic loss and an environmental concern. Their effects on wild salmon populations will be a function of: (1) the presence of escapes and subsequent interbreeding (frequency and magnitude); (2) differences in traits that affect survival, competition and reproduction; (3) ability of natural systems to buffer against escapes through natural selection; and (4) our ability to mitigate impacts. The Ph.D. students will work collaboratively, with one focused on quantifying the realized reproductive success resulting from a large escape event in 2013 and selection over time using genomic tools (RAD-seq; SNP identification; Fluidigm nanofluidic array). The second student will quantify the potential viability of crosses of wild salmon with North American- and European-origin farm salmon, by comparing functional traits and behavioural interactions among offspring (pure and hybrid) from the crosses. Furthermore, using a combination of microarray and RNA-seq-based transcriptome analyses (in collaboration with Dr. Matt Rise), we will assess differences in genetic expression among offspring of the different crosses at the stage of first feeding. The project also involves a replicated experimental release of offspring of wild salmon and NA-origin farm salmon (pure and hybrid). The research will be based in the Evolutionary Ecology Laboratory of Dr. Fleming (http://www.mun.ca/osc/-ifleming/index.php) at Memorial University and the Population Genomics Laboratory of Dr. Bradbury at DFO. There is flexibility and scope within the projects for the successful candidates to develop and address additional questions.

Students should be prepared to share their enthusiasm for research and associated skills openly within and among the research groups, and by doing so, contribute to a dynamic research environment. While they will be based in the respective laboratories at Memorial University and DFO, students should be prepared to travel temporarily between laboratories and to the South coast of Newfoundland for research.

The ideal start date would be September 2015 or earlier. Major scholarship holders will receive generous top-ups to their awards.

Qualifications: The ideal candidates will possess an MSc; have research interests and training in the areas of fish ecology and behaviour, population genomics and fish rearing and; be capable of designing and undertaking both field and laboratory research; and have reasonable facility with the analysis of large data sets.

Prospective candidates should email a cover letter, CV, unofficial transcripts and contact information for three people who can serve as references. Review of applicants will begin 30 April 2015 and continue until the positions are filled.

Dr. Ian A. Fleming Dr. Ian Bradbury Department of Ocean Sciences Fisheries and Oceans Canada Memorial University of Newfoundland Science Branch, 80 East White Hills Road ifleming@mun.ca P. O. Box 5667, St. John's, NL A1C 5X1 ibradbur@me.com

ifleming@mun.ca

MNHN Paris LemurEvolution

PhD scholarship opportunity

Subject title: “Epigenetic inheritance of physiological flexibility in a primate species, the grey mouse lemur”

Location: UMR CNRS/MNHN 7179 (MECADEV) 1 avenue du petit chÃteau, 91800 Brunoy (France)

Main PhD supervisor: Dr Fabienne Aujard Secondary PhD supervisors: Drs Pierre-Yves Henry and Jérémy Terrien

The French research unit UMR 7179 is offering an opportunity to defend a PhD scholarship to be attributed by the Museum National d'Histoire Naturelle. The applicant will defend a subject treating on the “Epigenetic inheritance of physiological flexibility in a primate species, the grey mouse lemur”. Briefly, exhibiting high phenotypic flexibility requires fine tuning of all mechanisms involved in the control of metabolism, including regulation of gene expression through epigenetic changes. Epigenetic modifications are a mechanism of regulating gene expression that is reversible, heritable and particularly sensitive to environmental conditions. The role of epigenetic modifications as a way of adjusting phenotypic flexibility in response to environmental change has gained much interest since epigenetic inheritance has been described as a potential mechanism for a specimen to benefit from its parents history.

In this project, we propose to evaluate the potential of epigenetic inheritance in a primate species, the grey mouse lemur (Microcebus murinus), characterized by its great phenotypic flexibility adapted to the unpredictability of Madagascar climate. Using the in-house breeding colony resource (˜400 individuals), we will mimic periods of food scarcity during key periods of reproduction (spermatogenesis for males and gestation, lactation for females) and evaluate the impacts of such treatment in juveniles and their ability to respond to the same energetic challenge. The student will have to conduct experiments to answer 2 main questions: 1) Which are the epigenetic modifications induced by an energetic challenge in the adult grey mouse lemur, and can we link these changes to metabolic phenotyping characteristics? 2) Can we estimate the epigenetic inheritance in such context, and evaluate the potential of parental history on juvenile physiological capacities?

Applicants must be highly motivated and have a strong interest in our scientific area (for more information, please visit our website at http://www.mecadev.cnrs.fr/-). A strong background of basic molecular research methodology (knowledge of epigenetic mechanisms would be highly appreciated) is highly recommended. Given the scope of this subject, a good background in physiology and biology of adaptation would be appreciated. Applications should contain a CV, a short statement of your research interests as well as a recommendation letter. Please send your application to terrien@mnhn.fr before May 20, 2015.

Jérémy TERRIEN <jeremy.terrien@mnhn.fr>

MonashU EvolutionaryEcology

PhD position, evolutionary genetics, ageing, infectious disease

A PhD position is available in the group of Matthew Hall at Monash University. We are looking for a highly motivated candidate with broad interests in the evolution and quantitative genetics. Our research group studies the evolutionary genetics of lifes big challenges V sex, death and disease V using water-fleas of the genus Daphnia and their associated pathogens. We use a combination of quantitative genetics, genomics and experimental approaches to unravel why some individuals are just better at finding a partner, fighting infectious disease and living well.

The successful application will be familiar with basic evolutionary concepts and have the capacity to develop their own using the Daphnia system. Projects related to the following areas will be particularly encouraged:

- The evolution of infectious disease - The evolutionary ecology of ageing and life-history - The role of metabolic function in shaping organismal health

Scholarship details Each PhD stipend is fully-funded for a period of 3.5 years and is open to both Australian/NZ domestic and international students. The stipends include all course fees plus approximately $25,000 AUD per annum tax-free. Research funding as well as attendance in one conference per year is guaranteed.

Monash and the School of Biological Sciences Monash is a member of the Group of Eight, a coalition of top Australian universities recognized for their excellence in teaching and research. The School of Biological Sciences is a dynamic unit with key strengths in evolutionary ecology, physiology and genomics (monash.edu/science/about/schools/biological-sciences/research/). The University is located in Melbourne, one of the most liveable cities in the world and a cultural and recreational hub.

Application process Interested candidates should send an email outlining their research interests and motivation, together with a CV and academic transcript to

matthew.hall@monash.edu. Applicants must possess a Bachelor's or equivalent degree with first-class Honours, Master of Science or MPhil. Short-listed candidates will be asked for further information.

For further information on the research group of Matthew Hall visit mattdhall.com

– Dr. Matthew D. Hall School of Biological Sciences, Monash University Clayton, Victoria 3800, Australia

Email: matthew.hall@monash.edu Phone: +61 3 9905 5793 twitter: @mattd_hall www.mattdhall.com Matthew Hall <matthew.hall@monash.edu>

NaturalisNetherlands Biodiversity

We would like to draw your attention to the opening up of *15 PhD/Early Stage Research positions in the fields of geo-, bio-, and climate sciences* (climate modelling, stratigraphy and sedimentary geology, geochemistry, palaeontology, taxonomy and phylogeny, evolutionary biology, ecology, biodiversity and conservation) in the EU-Marie Sk©©odowska-Curie ITN program Drivers of Pontocaspian Biodiversity Rise and Demise±.

Through your present or past activities you may know potential excellent young researchers that may be interested in these positions. Candidates must have finished their MSc in the past 4 years (up to september 2015). Deadline for applications is April 16. Information on the projects and institutes can be found on www.pontocaspian.eu . Thank you for your attention and apologies for any cross-posting,

Frank Wesselingh, Program Director

Cynthia Crul, Program manager

Rutger Vos <rutgeraldo@gmail.com>

Stockholm InsectMetagenomics

PHD STUDENT POSITION in INSECT METAGENOMICS

The position forms part of a group of 15 PhD students now being recruited to the EU-funded Marie Sklodowska-Curie Innovative Training Network BIG4. The core of BIG4 is interdisciplinary, cutting-edge research on the diversity and evolution of the four largest insect orders: Hymenoptera, Diptera, Coleoptera, and Lepidoptera (Biosystematics, Informatics and Genomics of the 4 big insect groups). The program offers unique opportunities in terms of preparing students for an academic or a business career. The training will include secondment to other European labs in the network, and to small companies in the biotechnology and IT sector. The program also includes network-wide training events, and seeks to build student skills in creativity and innovation.

The position is one of three PhD student positions that will be formally associated with the Department of Zoology at Stockholm University, which will award the PhD degrees. The position will be hosted by the Ronquist lab at the Swedish Museum of Natural History, which is one of the world leaders in the development of software for computational phylogenomics using Bayesian statistical methods. The lab also has a strong research tradition in insect systematics and evolutionary biology.

The successful candidate for this position will develop new methods for analyzing environmental samples using massively parallel sequencing. In particular, we will be focusing on methods allowing broad qualitative and quantitative taxonomic analysis of the insect fauna found in Malaise trap samples and soil samples. We will then use these methods to study the composition and spatial structure of insect faunas.

We are looking for candidates with a broad background, preferably including studies or training in entomology, genomics, bioinformatics, and programming. We expect that you will be creative and independent while being a good team player. Fluency in spoken and written English is essential. We will pay particular attention to scientific and creative talent and potential.

To be eligible for the position, you need to fill the formal requirements to start a PhD program in biology, broadly construed, and have less than 4 years of research experience counted as time of employment in research since receiving the degree for enrollment in a PhD. You cannot have resided or carried out your main activity (work or study) in Sweden for more than 12 months in the 3-year period immediately prior to the recruitment under the project.

Starting date is August 15, 2015. The position is for four years.

The Swedish Museum of Natural History (NRM) is one of the leading institutions of its kind in Europe. It combines a venerable tradition and unique collections with cutting-edge research in geology, paleontology and biology. The museum is close to Stockholm University, the

Royal School of Engineering (KTH) and the Karolinska Institute. The Stockholm Phylogenomics Group (http://-/phylogenomics.se) engages research groups from all of these institutions. The Department of Bioinformatics and Genetics at NRM is focused on research in computational phylogenetics, population genetics and genomics. It also runs a DNA sequencing facility and hosts several national and international infrastructures.

The application should consist of a personal letter, a statement describing research interests and career goals (max 3 pages), a CV, and a transcript of your MSc diploma or equivalent. The application should be marked with dnr 2.3.1-182-2015 and sent to rekryter-ing@nrm.se. Applications should be received no later than May 29, 2015.

Fredrik Ronquist Professor, Dept. Bioinformatics and Genetics Swedish Museum of Natural History, Stockholm

email: fredrik.ronquist@nrm.se

Fredrik.Ronquist@nrm.se

Stockholm InsectPhylogenomics

PHD STUDENT POSITION in INSECT PHYLOGENOMICS

The position forms part of a group of 15 PhD students now being recruited to the EU-funded Marie Sklodowska-Curie Innovative Training Network BIG4. The core of BIG4 is interdisciplinary, cutting-edge research on the diversity and evolution of the four largest insect orders: Hymenoptera, Diptera, Coleoptera, and Lepidoptera (Biosystematics, Informatics and Genomics of the 4 big insect groups). The program offers unique opportunities in terms of preparing students for an academic or a business career. The training will include secondment to other European labs in the network, and to small companies in the biotechnology and IT sector. The program also includes network-wide training events, and seeks to build student skills in creativity and innovation.

The position is one of three PhD student positions that will be formally associated with the Department of Zoology at Stockholm University, which will award the PhD degrees. The position will be hosted by the Ronquist lab at the Swedish Museum of Natural History, which is one of the world leaders in the development of software for computational phylogenomics using Bayesian statistical methods. The lab also has a strong research tradition in insect systematics and evolutionary biology.

The successful candidate for this position will be using genomic approaches to analyze phylogenetic relationships among gall wasps, which have proved hard to resolve using traditional methods. The genomic data will then form the basis for identification and functional analysis of genes involved in the transitions between parasitoids, gall inducers and inquilines in this group of insects.

We are looking for candidates with a broad background, preferably including studies or training in entomology, genomics, bioinformatics, and programming. We expect that you will be creative and independent while being a good team player. Fluency in spoken and written English is essential. We will pay particular attention to scientific and creative talent and potential.

To be eligible for the position, you need to fill the formal requirements to start a PhD program in biology, broadly construed, and have less than 4 years of research experience counted as time of employment in research since receiving the degree for enrollment in a PhD. You cannot have resided or carried out your main activity (work or study) in Sweden for more than 12 months in the 3-year period immediately prior to the recruitment under the project.

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The application should consist of a personal letter, a statement describing research interests and career goals (max 3 pages), a CV, and a transcript of your MSc diploma or equivalent. The application should be marked with dnr 2.3.1-182-2015 and sent to rekryter-ing@nrm.se. Applications should be received no later than May 29, 2015.

Fredrik Ronquist Professor, Dept. Bioinformatics and Genetics Swedish Museum of Natural History, Stockholm

email: fredrik.ronquist@nrm.se

Fredrik.Ronquist@nrm.se

Stockholm InsectTaxonomy BiodiversityInformatics

PHD STUDENT POSITION in INSECT TAXONOMY / BIODIVERSITY INFORMATICS

The position forms part of a group of 15 PhD students now being recruited to the EU-funded Marie Sklodowska-Curie Innovative Training Network BIG4. The core of BIG4 is interdisciplinary, cutting-edge research on the diversity and evolution of the four largest insect orders: Hymenoptera, Diptera, Coleoptera, and Lepidoptera ('Biosystematics, Informatics and Genomics of the 4 big insect groups). The program offers unique opportunities in terms of preparing students for an academic or a business career. The training will include secondment to other European labs in the network, and to small companies in the biotechnology and IT sector. The program also includes network-wide training events, and seeks to build student skills in creativity and innovation.

The position is one of three PhD student positions that will be formally associated with the Department of Zoology at Stockholm University, which will award the PhD degrees. The position will be hosted by Savantic AB (http://savanticab.com), a consultant company specializing in bridging the gap between the research and business worlds. All consultants have a doctoral degree in physics. Specialty areas include image analysis, medical technology and environmental technology. The academic training will be provided by the Ronquist lab at the Swedish Museum of Natural History, which is one of the world leaders in the development of software for computational phylogenomics using Bayesian statistical methods. The lab also has a strong research tradition in insect systematics and evolutionary biology.

The successful candidate for this position will focus on the use of citizen science in accelerating research and discovery in insect systematics. For a suitable group of poorly known insects, we will develop visual identification aids based on advanced image analysis. The aim is to generate interest among citizen scientists in contributing to the systematic research on the chosen group, using a commercially viable app.

We are looking for candidates with a broad background, preferably including studies or training in entomology, genomics, bioinformatics, and programming. We expect that you will be creative and independent while being a good team player. Fluency in spoken and written English is essential. We will pay particular attention to scientific and creative talent and potential.

To be eligible for the position, you need to fill the formal requirements to start a PhD program in biology, broadly construed, and have less than 4 years of research experience counted as time of employment in research since receiving the degree for enrollment in a PhD. You cannot have resided or carried out your main activity (work or study) in Sweden for more than 12 months in the 3-year period immediately prior to the recruitment under the project.

Starting date is August 15, 2015. The position is for four years.

The Swedish Museum of Natural History (NRM) is one of the leading institutions of its kind in Europe. It combines a venerable tradition and unique collections with cutting-edge research in geology, paleontology and biology. The museum is close to Stockholm University, the Royal School of Engineering (KTH) and the Karolinska Institute. The Stockholm Phylogenomics Group (http://phylogenomics.se) engages research groups from all of these institutions. The Department of Bioinformatics and Genetics at NRM is focused on research in computational phylogenetics, population genetics and genomics. We run a DNA sequencing facility and host several national and international infrastructures.

The application should consist of a personal letter, a statement describing research interests and career goals (max 3 pages), a CV, and a transcript of your MSc diploma or equivalent. The application should be sent to Karin Carlsson at Savantic AB (karin@savanticab.com). Applications should be received no later than May 29, 2015.

Fredrik Ronquist Professor, Dept. Bioinformatics and Genetics Swedish Museum of Natural History, Stockholm

email: fredrik.ronquist@nrm.se

Karin Carlsson Savantic AB

email: karin@savanticab.com

Fredrik.Ronquist@nrm.se

TexasAMU GrasshopperPhenotypicPlasticity

Texas A&M University Grasshopper Phenotypic Plasticity

The Song Laboratory of Insect Systematics and Evolution in the Department of Entomology at Texas A&M University is looking for a highly motivated and independent graduate student (Ph.D.) for the Fall 2015 or Spring 2016 semester. This Ph.D. position will be supported by an ongoing NSF project, focusing on the evolution of density-dependent phenotypic plasticity in grasshoppers and locusts, and the student is expected to develop a dissertation project in line with this NSF project. The project will involve extensive domestic and international fieldwork, laboratory work involving insect rearing and behavioral assays, as well as functional genetics using RNA-seq and RNAi.

Qualifications:

Bachelors degree in entomology, evolutionary biology or relevant biological sciences. Masters degree in the same field is preferred. Applicants with broad interest in insects and evolutionary biology are encouraged to apply.

Minimum GPA of 3.5 and competitive GRE scores required.

Demonstrated ability to complete projects and publish results.

Excellent written and oral communication abilities. Ability to speak Spanish is a plus.

Demonstrated ability to work independently in the field is desired.

Currently, a three-year graduate assistantship ($24,000/yr + tuition and benefit) is available for this position, and additional funding will be available through fellowships and teaching assistantships. The selected student will have an option to pursue a doctoral degree through the Department of Entomology (http://entomology.tamu.edu/), which is one of the best entomology departments in the country, or through the newly established Ecology and Evolutionary Doctoral Program (http://eeb.tamu.edu/), which is an interdisciplinary program formed by faculty from seven departments from Texas A&M University.

Interested candidates should send CV, statement of interest and names and contact information of three references to Dr. Hojun Song at hsong@tamu.edu. Applications will be considered on a rolling basis until position is filled. Suggested submission deadline is June 1, 2015. For more information about the Song Lab, please visit http://schistocerca.org/SongLab/ . Thanks,

Hojun

Hojun Song, Ph.D. Assistant Professor Department of Entomology, Texas A&M University Biological Control Facility, Room 118-119 College Station, TX 77843-2475

Office: 979-845-2481 Lab: 979-845-2487 Email: hsong@tamu.edu Website: schistocerca.org/SongLab

Mailing Address: Minnie Belle Heep Center, Room 412 Campus MS 2475 College Station, TX 77843-2475

Hojun Song <hsong@tamu.edu>

TexasTechU EnvironmentalDNA

Environmental DNA (eDNA) MS Position Available

Description The Barnes Lab in the Department of Natural Resources Management at Texas Tech University (http://drbarnes.org/) seeks students interested in conducting fully-funded, master's-level research on the application of genetic detection tools to the management of aquatic invasive species. Specifically, students will have the opportunity to develop and apply environmental DNA tools to monitor aquatic invasive species, such as the zebra mussel Dreissena polymorpha, across Texas. Students will also participate in the design and implementation of manipulative laboratory and/or field experiments to explore environmental factors influencing the production, persistence, and detection of environmental DNA.

Qualifications The start date for this position is September 1, 2015. Applicants must have a bachelor's degree in ecology, biology, or a related field by time of hire. Preference will be given to applicants who have ecological research experience in lab and field settings and who demonstrate strong written and interpersonal communication skills. Successful applicants will also be motivated, curious, and able to work independently as well as within a broader, collaborative lab team.

The Barnes Lab, as part of the Texas Tech University System, is committed to promoting equal employment opportunity and affirmative action throughout our aca-

demic community.

Compensation Compensation will include competitive stipend, health insurance, and Texas Tech University tuition waiver.

To Apply Interested individuals should compile a cover letter, CV or resume including GRE scores, undergraduate transcript (unofficial copy is acceptable), and contact information for three references into a single .pdf file and submit to Dr. Matthew Barnes via email (matthew.a.barnes@ttu.edu). The last day to apply for this position is May 15, 2015.

Dr. Matthew A. Barnes Assistant Professor Texas Tech University Natural Resources Management < http://-www.nrm.ttu.edu/ > Phone: 806-834-2122 | Twitter: @drbarnes < https://twitter.com/drbarnes > | Web: drbarnes.org

"Barnes, Matthew A" <matthew.a.barnes@ttu.edu>

UAmsterdam PopulationBiology

PhD candidate, Population Biology

University of Amsterdam

A PhD position is open with Dr Isabel Smallegange (http://www.uva.nl/profile/i.smallegange) in the Theoretical Ecology Research Group within the Institute for Biodiversity and Ecosystem Dynamics (IBED: ibed.uva.nl) at the University of Amsterdam. The goal of this PhD project is to investigate the effects of environmental change on the eco-evolutionary population response of two mite species that differ in life history speed. The PhD candidate will investigate in multigenerational population experiments how harvesting and environmental variability affect the joint dynamics of life history traits and population biomass dynamics of fast Rhizoglyphus robini and slow Naiadacarus arboricola mite populations in the lab and in the field (in case of N. arboricola, field work will be in North America (Virginia)).

The project starts September 2015. The full-time appointment will be on a temporary basis for a maximum period of four years (18 months plus a further 30 months after a positive evaluation) and should lead to a dissertation (PhD thesis). An educational plan will be drafted that includes attendance of courses and (international) meetings. The PhD Student is also expected to assist in the teaching of undergraduates. The full-time gross monthly salary will range from 2,125 in the first year to 2,717 in the final year, according to the Dutch salary scales for PhD students. The Collective Labour Agreement Dutch Universities is applicable. The annual salary will be increased by 8 % holiday allowance and 8.3 % end-of-year bonus.

You must have a Masters degree (or equivalent) in Ecology, Evolution or Population Biology and experience with laboratory experiments, preferably with invertebrates. You must have an interest (preferably experience) in combining theory, laboratory studies, and data analysis. Good computer skills, including statistical analysis and preferably also programming in MatLab or R, are required, as is a willingness to work in a multidisciplinary environment.

Applications should include (i) a detailed CV including educational experience, a list of publications (if any) and the names and contact addresses of two academic references from which information about the candidate can be obtained, (ii) a letter describing motivation and research interests, and (iii) an English writing sample (e.g. paper, MSc or BSc thesis). Please combine these materials into a single PDF file.

Applications should be sent before 15 May 2015 23:59, via email to drs. S.H.M. Jongerius, P&O adviser: application-science@uva.nl. Please quote the vacancy number in the subject field. Interviews, possibly via Skype, will be held on 11 and/or 12 June 2015.

Dr Isabel Smallegange

Assistant Professor

Institute for Biodiversity and Ecosystem Dynamics

University of Amsterdam

P.O. box 94248

1090 GE Amsterdam

The Netherlands

I.Smallegange@uva.nl

Isabel Smallegange <i.smallegange@uva.nl>

UBern PlantEvolution

The grassland ecology group at Bern University of Applied Sciences, in collaboration with the Plant Ecology Section of the Institute of Plant Sciences at the University of Bern, is offering the following vacancy starting on June 1, 2015 limited to 3 years

PhD position in plant ecology (Switzerland) Effects of drought and land use on invasibility and biotic filters including soil biota in semi-natural grassland

Your duties: - Collect plant community data from a multi-site multi-factorial experiment across Switzerland including manipulations of precipitation, competition for light and soil biota and additions of plant species of contrasting traits and origins - Conduct supplementary field and greenhouse experiments to test hypotheses on how drought impacts biotic interactions between seedlings, mycorrhizal fungi, and soil-borne pathogens and herbivores - Collaborate in the Swiss NSF project Drought legacy effects on grassland invasibility

Your profile: - Enthusiastic and independent student with a strong interest in conceptual issues of ecology - Excellent Masters degree in a relevant field of research, e.g. - Experience in experimental ecology and in the design and statistical analysis of ecological experiments - Good command of English and ambition to publish in international journals - Good knowledge of species in grassland and interest in working in the field

We offer: - Collaboration and support in a team with plant community ecologists at HAFL - Support and general training with the plant ecology group at University of Bern - Salary in accordance with the Swiss National Science Foundation

The position is with PD Dr Andreas Stampfli (www.hafl.bfh.ch/index.php?id53) and Prof. Dr Markus Fischer (http://www.botany.unibe.ch/planteco/)

Please use our online application system: www.bfh.ch/-jobs

Evaluation of applications starts on 4 May 2015

Your contact for any questions you may have about this job: Michaela Zeiter (michaela.zeiter@ips.unibe.ch)

michaela.zeiter@ips.unibe.ch

UCalgary GenomeEvolutionParasites

The Wasmuth lab (www.wasmuthlab.org) is looking for a graduate student to investigate the link between genome evolution and the mechanisms that underlie the success of parasites. This work is part of an NSERC funded program. The project summary is at the end.

The project is entirely computational, although in close collaboration with molecular biologists. The student is expected to have: 1. An undergraduate degree in life sciences (GPA $>$ 3.6 / 4.0 or equivalent). 2. Demonstrable experience with a programming language such as Python or Perl. 3. A desire to undertake an independent research project.

While preference will be given to Canadian applicants, exceptional international applicants will also be considered.

The Wasmuth lab is situated at the University of Calgary, Canada. The student will be a member of two research communities. The first is the Host-Parasite Interactions training program (www.ucalgary.ca/hpi). Supported by a $2 million grant from NSERC, HPI involves 9 PIs across two universities. IT brings together expertise in genomics, immunology, molecular biology and ecology. HPI members receive a wealth of extra training opportunities and to help with research and future careers. We are also prominent in outreach projects with the general public, through collaboration with the Spark Science Centre (www.ucalgary.ca/hpi/-news-events/community-engagement). Finally, there is a growing bioinformatics research community, supported by three new PI hires.

If you are interested, please send me an email (jwasmuth@ucalgary.ca) with: 1. CV. 2. Transcripts / course grades. 3. Letter explaining your motivation for undertaking graduate studies. 4. Contact details for two people that are willing to write a letter of recommendation.

Summary Species of nematodes are ubiquitous and significant parasites of animals and plants. This parasitism has evolved multiple times independently from free-living ancestral species. The biological mechanisms that support parasitism are encoded in the nematodes' genomes. The long-term objectives of my research program are to understand which regions of the genome

evolved, and how this lead to the origin and maintenance of the behaviour and biochemical traits that we observe in today's parasitic nematodes. Using a combination of genomics, bioinformatics and evolutionary biology approaches, my research program examines the evolution of gene duplications and growth of gene families in the genomes of both free-living and parasitic nematodes. Large gene families are implicated in responding to an organism's response to its environment. Changes in these gene families frequently correlate to the adaptation of a new environment, which can lead to the emergence of a new species. The fully sequenced genomes of over 20 nematode species of interest enable us to test various key questions in species evolution and to understand host-parasite interactions.

James Wasmuth Assistant Professor, Host-Pathogen Interactions, University of Calgary www: wasmuthlab.org twitter: @jdwasmuth

jwasmuth@ucalgary.ca

UCoimbra Portugal WeedEvolution

*Call for candidates to apply for an FCT *

We are looking for candidates to apply for an FCT (Portuguese Foundation for Science and Technology) doctoral fellowship for a mixed Ph.D at the Centre for Functional Ecology of the University of Coimbra (cfe.uc.pt), and Durham University (https://-www.dur.ac.uk/).

The successful candidate will be expected to develop a research project to investigate evolution and adaptation of the invasive weed *Centaurea solstitialis* across broad biogeographical ranges. The research involves laboratory and field-based work and involves the interaction with an international network of collaborators from the USA, Chile, Argentina, Australia, Turkey, Spain, and the UK. The candidate is expected to spend half of the time in Portugal and half in the UK.

The candidate should have a good scientific background, with an interest into reproductive and evolutionary ecology, and genetics of invasive weeds. A good knowledge of the English language, of ecological statistics, or molecular biology is highly desirable. Candidates should be European or permanent residents, and comply with the conditions to be a candidate for the FCT Doctoral Grants (http://www.fct.pt/apoios/bolsas/-concursos/individuais2015.phtml.en).

The doctoral fellowship includes a monthly payment of 980 euros (tax-free), plus an accident insurance and a monthly contribution to the Portuguese Social Security system (full healthcare and retirement, but no unemployment benefits). During stages in the UK, the scholarship will be topped up to 1710 euros monthly to compensate for differences in the cost of living. The scholarship is renewable for up to four years, at the end of which the candidate is expected to defend his or her PhD. dissertation thesis.

A call for fellowship applications will open during July and be open until May 11, 2015 (http://www.fct.pt/-apoios/bolsas/index.phtml.pt), but contacts should be made before *May 1*, at 6pm Greenwich time. Interested candidates should send a one page cover letter describing their research interests and experience, a CV (explicitly including average scores for B.Sc. and/or M.Sc.), and the contact information for up to two referees to Daniel Montesinos (daniel.montesinos@uc.pt) and Adrian Brennan (a.c.brennan@durham.ac.uk). Informal inquiries are welcome.

More information about the groups can be found here: http://cfe.uc.pt/daniel-montesinos https://-www.dur.ac.uk/research/directory/staff/?mode=-staff&id=11637 http://www.uc.pt/en/fctuc/ID/-plantecolevol Daniel Montesinos

Researcher (IF) Centre for Functional Ecology DCV - FCTUC - Universidade de Coimbra Calçada Martim de Freitas 3000-456 Coimbra, Portugal T: (+351) 239 855 223 (ext. 156) http://cfe.uc.pt/daniel-montesinos Editor-in-Chief Web Ecology www.web-ecology.net Daniel Montesinos <danimontesinos@gmail.com>

UEastAnglia UGroningen EvolutionSeychellesWarblers

Excellent PhD opportunity

Funded PhD position working on the Evolution of promiscuity in Seychelles warblers

with Profs DS Richardson, J Komdeur and Dr H Dugdale

Joint position at the University of East Anglia and the University of Groningen

Deadline 24 April 2015

For more details, eligibility and how to apply go to

https://www.uea.ac.uk/study/-/investigating-the-evolutionary-forces-underlying-promiscuity-in-the-seychelles-warbler-richardsonds_u15sf- or

http://www.findaphd.com/search/-ProjectDetails.aspx?PJID=56962&LID=432 David S Richardson Professor in Evolutionary Ecology and Conservation Centre for Evolution, Ecology and Conservation School of Biological Sciences, UEA, Norwich NR4 7TJ, England e-mail: david.richardson@uea.ac.uk http://biobis.bio.uea.ac.uk/biosql/fac_show.aspx?ID=-325 UK Top 15 (14th in the Guardian University Guide 2015; 15th in the Complete University Guide 2015) UK Top 3 for Student Experience (Times Higher Education Student Experience Survey 2014) World top 1% (Times Higher Education World Rankings 2013-14) World Top 100 (Leiden Ranking 2014)

"David Richardson (BIO)" <David.Richardson@uea.ac.uk>

UFlorida MovementEvolution

PhD position in movement ecology at the University of Florida starting Fall 2015

We seek an ambitious and hard-working PhD student to lead a project on wood stork movement ecology. The project will focus on habitat selection and movement responses to environmental stressors (climate change, weather and urbanization). Using and developing cutting-edge methods in movement ecology, the student will evaluate individual variation as a basis for adaptive responses to global change. The work will be mostly data-driven, relying on an extensive telemetry data set (>100 individuals over >10 years), and will not require additional field work. Applicants are expected to demonstrate robust fundamentals in statistics and data management; knowledge and understanding of R and PostGIS preferred. Publication records in peer-reviewed journals in ecology is highly desirable. Applicants must have a M.S. in ecology, evolutionary biology, behavior, or a related field.

This position will be supported by a fellowship of four years funding plus tuition and benefits, expected to start Fall 2015. The student will be based in Dr. Mathieu Basille's lab [1], located at the University of Florida's Fort Lauderdale Research and Education Center (FLREC [2]). The lab focuses on species distribution modeling, from fine-scale movement and habitat selection to range dynamics. The FLREC is based in Davie, FL, but class semesters will be held on the main campus in Gainesville, FL. Davie is a town within the large Miami metropolitan area in South Florida, just miles away from the Florida Everglades.

Please apply by sending an email including a cover letter describing your interest, experience and career goals, a CV, unofficial transcripts and GRE scores, and contact information for three references to Dr. Mathieu Basille (basille@ufl.edu). Applications will be processed in the order they are received until a suitable applicant is found.

[1] http://ase-research.org/basille/ [2] http://-flrec.ifas.ufl.edu/ –

~$ whoami Mathieu Basille http://ase-research.org/-basille ~$ locate –details University of Florida \\ Fort Lauderdale Research and Education Center (+1) 954-577-6314

~$ fortune ≪ Le tout est de tout dire, et je manque de mots Et je manque de temps, et je manque d'audace. ≫ – Paul Ãluard

basille@ufl.edu

UGraz Austria BehavioralEvolution

This position has previously been advertised with the subject matter "PostDoc" in EvolDir (as it can be filled by either a postdoc or a PhD candidate) and may have

gone unnoticed by people searching for PhD opportunities.

A PhD position in a 3-year project <Coping with cuckoldry> funded by the FWF (Austrian Science Fund) is available at the Institute of Zoology at the University of Graz, Austria, in the group of Prof. Kristina Sefc. The project investigates cuckoldry in a cichlid fish with biparental brood care. The study species (Variabilichromis moorii, from Lake Tanganyika in Africa) has high levels of extra-pair paternity (Sefc et al. 2008, Mol. Ecol. 17, 2531-2543), and we now aim to understand why nest-holding males failed to evolve more efficient defenses against cuckoldry. The candidate will carry out field work, genetic analysis and behavioral experiments to answer questions about paternity, brood care, offspring recognition, mate choice and relatedness structure within the population.

We are looking for a highly motivated person with an MSc in a related discipline (e.g., zoology, behavioral ecology, evolutionary biology). Field work at Lake Tanganyika is an important part of the project (up to four trips are required); therefore, candidates experienced with aquatic field work are particularly encouraged to apply. Field work will require SCUBA diving in shallow (<10m) water. The project also includes a large amount of DNA genotyping (microsatellites) for paternity and relatedness analyses, such that experience with or affinity to DNA lab work is required. Behavioral work in the lab also involves fish stock management and the establishment of experimental designs. The candidate is expected to search, read and understand scientific literature, and to develop good skills in statistical data analysis and scientific writing. Excellent written and oral communication skills in English, team skills, a sense of responsibility and the ability to take decisions (e.g. react to unforeseen conditions during field work) are required.

The successful candidate is expected to start between July 1 and September 1, 2015, and to participate in a field trip to Lake Tanganyika from mid-September to November. The gross salary per year (before tax) is approximately euro 28,000.

Graz is a lively city in the south of Austria, situated in a beautiful landscape offering manifold opportunities for outdoor activities. Friendly people, lots of sunshine and reasonable living expenses contribute to a high quality of life.

Please send your application including your motivation for the position, a detailed description of your experience (field work, genetic analysis, behavioral experiments), CV incl. photograph, publication list, and 2 (or more) referee contacts to kristina.sefc@uni-graz.at. Send you application as soon as possible, but latest by April 30.

kristina.sefc@uni-graz.at

UKonstanz MolEvol

Ph.D. position available in molecular evolution, comparative genomics and evo-devo at the University of Konstanz in Germany

The Hector Foundation provides generous funding for Ph.D. fellowships for the Hector Academy±. The funding applies only to students who are interested in joining the laboratories of Senior Hector Fellows. These fellowships pay a highly competitive salary and also provide support for research expenses.

Please visit http://www.hector-fellow-academy.de/en/-hfa-doctorate/index.htm for more information.

DEADLINE April 30th 2015

Axel Meyers lab at the University of Konstanz welcomes applications from motivated Masters students who are interested in the fields of either molecular evolution, comparative genomics, and / or the evolution of developmental mechanisms.

The University of Konstanz and the Department of Biology are among the most highly ranked institutions in Germany and provide a lively and academically outstanding research environment. Konstanz is a lovely historic town located on Lake Constance on the southern German border to Switzerland.

Additional information can be obtained from: axel.meyer@uni- konstanz.de < http://konstanz.de/ > , phone: +49 (0) 7531 / 88 - 4163, fax + 49 (0) 7531 / 88 - 3018 or from our website: http://-www.evolutionsbiologie.uni-konstanz.de Prof. Axel Meyer, Ph.D. Lehrstuhl f[1]r Zoologie und Evolutionsbiologie Department of Biology Building M, Room M806 University of Konstanz 78457 Konstanz Germany

fon + 49 (0)7531 88 4163 fax + 49 (0)7531 88 3018

secretary: Ingrid.Bader@uni-konstanz.de tel. + 49 (0)7531 88 3069

www.evolutionsbiologie.uni-konstanz.de Axel Meyer <axel.meyer@uni-konstanz.de>

UMainz AntLifeHistoryEvolution

PhD - Life History Evolution In Ants

Application deadline 8th of May 2015 The Faculty 10 Biology, Institute of Zoology, Dept. of Evolutionary Biology at the University of Mainz is searching for

a PhD Student (3 years - 65% TVL E13)

for the research project

Life history evolution in Ants

We invite applications for a 3-years PhD position at the JG University of Mainz, Germany. The project aims at understanding the evolution of life history traits and their genetic basis. Our model systems are Temnothorax ants and in this project we will use both experimental and transcriptomic approaches. For more details on the project, please contact us.

The position requires a Master degree in Biology (or a related field). The successful candidate should be highly motivated and have a strong background in evolutionary genetics and behavioral ecology. Previous research experiences with transcriptomics, bioinformatics, behavioral experiments, or social insects are not required but advantageous. Students from every nationality are encouraged to apply. The working language of the laboratory is English.

Our young group offers an international, dynamic and interactive scientific environment and state-of the art, newly equipped laboratories. Information on our scientific work including recent publications can be found under http://www.bio.uni-mainz.de/zoo/evobio/-318_ENG_HTML.php. For more information, please do not hesitate to contact us foitzik@uni-mainz.de or feldmeye@uni-mainz.de.The University of Mainz hosts many excellent scientific institutions (http://www.uni-mainz.de/eng) and Mainz is a historic city located on the River Rhine with many students and a rich social and cultural life (http://www.mainz.de).

Interested candidates should send an application (as a single pdf e-mail attachment) containing a letter of motivation, a brief statement of their research experience and interests (max. 1 page), a curriculum vitae (with the grades of their B.Sc and M.Sc), a copy of their Master or Diploma thesis, and the names and email address of 2-3 potential referees to Dr. Susanne Foitzik (foitzik@uni-mainz.de) or Dr. Barbara Feldmeyer (feldmeye@uni-mainz.de).

Review of applications will begin May 8th 2015. Skype-interviews are scheduled for mid-May and on-site visits for beginning of June. Starting date due to the field season is August 2015 (15th of August 2015 at the very latest).

Prof. Dr. Susanne Foitzik Dr. Barbara Feldmeyer foitzik@uni-mainz.de feldmeye@uni-mainz.de

Prof. Dr. Susanne Foitzik Evolutionsbiologie Institut für Zoologie Johannes Gutenberg Universität Mainz Johannes von Müller Weg 6 D-55099 Mainz Germany

Tel: +49 (0) 6131 39 27 840 Fax: +49 (0)6131 39 27 850 Email: foitzik@uni-mainz.de

From: Foitzik, Susanne Sent: Montag, 23. Februar 2015 14:17 To: 'Golding@McMaster.CA' Subject: evoldir: Open Assistant Prof. position Deadline finishes soon!

Dear Brian I would like to post the following position on evolDir Thanks for doing this ! Best Susanne

Reminder! Deadline closing soon!

Job announcement

In the Faculty 10 Biology, Zoological Institute, Department of Evolutionary Biology at the University of Mainz is looking for an

Assistant Professor / Junior group leader

(Akademischer Rat at a University / Bes.Gr. A 13 BBesG)

Field: Evolutionary Genomics / Behavioral Genomics

from April 15st 2015 on.

The contract is initially for 3 years with the possibility of extension to up to a total of nine years depending on previous employment at German universities (12-year rule). In case the prerequisites of civil service law are not fulfilled, an engagement as a Scientific Assistant (EG 13 TV-L) is possible. More information on potential contract length and position can be given on an individual basis.

We invite applications for an Assistant Professor (Akademischer Rat / A 13) position in the Department of Evolutionary (Prof. Dr. Susanne Foitzik) at the Institute of Zoology at Johannes Gutenberg University of Mainz, Germany. This young international research team focusses on the evolution, behavior, genetics, chemical ecology of social insects (http://www.bio.uni-mainz.de/zoo/evobio/index_ENG.php). Collaboration with other groups of in the department of Evolutionary Biology are desirable. Excellent research conditions

are available at the newly renovated and well-equipped genetic and chemical laboratories in Mainz. Furthermore, new climate chambers are available for animal maintenance. A NextGen sequencing facility is available on campus. For further information, please contact foitzik@uni-mainz.de.

We are seeking a highly motivated young researcher with a strong background in evolutionary genomics or behavioral genomics to

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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

UOslo Bioinformatics

Information on how to apply can be found here: http://uio.easycruit.com/vacancy/1356637/64290? NOTE: the deadline is in three days (13.04.15).

Department of Informatics PhD Research Fellow in Bioinformatics A position as PhD Research fellow is available at the Department of Informatics.

The fellowship will be for a period of 3 years, with no compulsory work or for a period of 4 years, with 25 % compulsory work (teaching responsibilities at the department) contingent on the qualifications of the candidate and the teaching needs of the department. Starting date no later than 1 October 2015. No one can be appointed for more than one fixed-term period at the same institution.

The research fellow will take part in the Centre for Computational Inference in Evolutionary Life Sciences (CELS). CELS is a multidisciplinary centre within life sciences comprising strong research environments in biology and statistical and computational methods for data analysis. CELS addresses fundamental biological questions related to the genotype-phenotype paradigm, how the environment affects genome evolution and development of methods for integrated analysis of genomic and other biotic and abiotic data. A main goal is to develop interdisciplinary research activities generating science of true interest for computer scientists, statisticians and biologists.

Job description:

Metagenomics is the study of the genetic material in a sample containing a mix of different microbial organisms. These samples may have be obtained from such diverse locations as the gut of an animal (e.g. humans or fishes), from the depths of the oceans, or from the soil somewhere on earth. Recent advances in DNA sequencing technologies have enabled very large amounts of such data to be obtained for analysis. Extracting biological meaningful information from these huge datasets involve hard computational challenges that can only be solved by good algorithms and efficient parallelization. Interpreting the data correctly can advance science by a better understanding of, for example, the diversity of ecosystems or how the immune system responds to exposure to microorganisms.

We are seeking a highly motivated candidate to develop new or improved algorithms and tools for metagenomics with substantially improved functionality, accuracy or speed that will be highly valuable for the scientific community. This is an opportunity to develop open source software in areas like error detection and removal, clustering, classification as well as genome assembly, where we have already contributed with tools like SWARM and VSEARCH. The successful candidate will be embedded in a vibrant bioinformatics environment connected to two Norwegian Centres of Excellence, and have access to first-rate computational infrastructure. The position is associated with the Centre for Computational Inference in Evolutionary Life Science (CELS) at UiO. The CELS research environment offers extensive experience with high-throughput sequencing and assembly of large genomes such as that of Atlantic cod (doi:10.1038/nature10342). The candidate will be supervised by an interdisciplinary team of scientists and will collaborate with other PhD research fellows within CELS.

Requirements:â

The Faculty of Mathematics and Natural Sciences has a strategic ambition of being a leading research faculty. Candidates for these fellowships will be selected in accordance with this, and expected to be in the upper segment of their class with respect to academic credentials.

Applicants must hold a Master's degree or equivalent in bioinformatics or computer science, and need to document good software development skills, as well as some experience with bioinformatics.

The candidate would need to learn genomics/metagenomics during the project, but no formal prior knowledge of biology is required.

Candidates without a Master's degree have until 30 June, 2015 to complete the final exam.

The purpose of the fellowship is research training leading

to the successful completion of a PhD degree.

The fellowship requires admission to the PhD programme at the Faculty of Mathematics and Natural Sciences. The application to the PhD programme must be submitted to the department no later than two months after taking up the position. For more information see:

Applying and being admitted to the PhD programme

Research education: The PhD programme

A good command of English is required

Salary:

Position code 1017, Pay grade: 50 - 57 (NOK 429 700 - 482 800 per year)

The application must include:

Application letter

CV (summarizing education, positions and academic work - scientific publications)

Copies of educational certificates, transcript of records and letters of recommendation

Documentation of English proficiency â

List of publications and academic work that the applicant wishes to be considered by the evaluation committee

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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

UOslo HybridSpeciesGenomics

PhD-student position on the genomic archivecture of a hybrid species at University of Oslo

A position as PhD Research Fellow is available at the Centre for Ecological and Evolutionary Synthesis (CEES), Department of Biosciences, Faculty of Mathematics and Natural Sciences.

The PhD project is entitled "The genomic architecture of a hybrid species" and is part of a larger Research Program entitled "On the role of hybridization in evolution - the case of Eurasian Passer sparrows" funded by the Norwegian Research Council.

Tentative starting date: June-August 2015.

The PhD-project will be part of a larger project using the Italian sparrow (Passer italiae), the first documented case of hybrid speciation in birds (Hermansen et al. 2011), and its parent species (P. domesticus and P. hispaniolensis) to investigate how hybridization can generate novel variation and result in speciation. The genome of the Italian sparrow is a composite mosaic of DNA from both parent species' genomes. However, little is known about the processes molding a homoploid hybrid genome.

This project applies genomic approaches to develop an understanding of which factors that have formed the genome of the Italian sparrow. Whole genome resquencing and RAD-tag data from three putatively independently formed island populations will be used to investigate this. Three questions that will be addressed is the role of transposable elements in forming the genome, whether entire networks of genes are repeatedly inherited from the same parent species, and how genetic integration compares to phenotypic integration. The successful candidate will be allowed to choose aspects of genomics of the larger study as best fits her/his research interests. She/he will also be encouraged to develop additional, complementary avenues of research. There will be available genomic data to work on from day one, but there will also be field work on Mediterranean islands!

We are looking for an ambitious candidate who is passionate about science and has a strong background in evolutionary biology/genomics/bioinformatics. Interested candidates should have a Master degree or equivalent in a relevant field of biology. A special interest in the field of speciation and speciation genetics is a plus. The candidate should be interested in learning and applying genomic skills to answer evolutionary questions regarding hybrid speciation. A strong interest in bioinformatics and experience with independent programming in unix/python/perl, and genomic data analysis in R is meriting. We are primarily looking for a candidate with a strong track record who is highly motivated and interested in a future career in science.

The position is affiliated with the Centre for Ecological and Evolutionary Synthesis (CEES), under the supervision of Dr. Anna Runemark and Prof. Glenn-Peter SÃtre and the work will be done in collaboration with our research group currently consisting of four senior researchers, three PhD-students and several MSc-students. The working language will be English.

Please contact Anna Runemark Anna.Runemark@ibv.uio (or g.p.satre@ibv.uio.no) for further information regarding the position!

Please find a link to the announcement here: http://-

uio.easycruit.com/vacancy/1373165/96871?iso=no .

Anna Runemark <anna.runemark@ibv.uio.no>

UOtago BirdGenomics

Title: University of Otago, New Zealand, Bird genomics

A PhD position is available to study the evolution and conservation of New Zealand bird species with Dr Michael Knapp at the University of Otago, Dunedin, New Zealand.

Project details: The New Zealand bird fauna is unique in the world and a key element of New Zealand's natural heritage. In the absence of mammals, birds have evolved to fill their ecological niches. This unusual situation has for example given rise to the world's largest raptor, Haast's Eagle, the ecological equivalent of a lion or tiger. New Zealand is also home to the only alpine parrot in the world, the Kea, and the world's only flightless parrot, the Kakapo. The New Zealand bird fauna is a model for adaptive evolution comparable to the famous Galpagos finches that inspired Darwin's work. However, due to their adaptions to a mammal free environment, New Zealand birds have suffered dramatic losses through introduced mammalian predators with many species now depending on intensive conservation efforts.

Because of their evolutionary relevance, the conservation of New Zealand birds is of more than national importance. Understanding the evolution of New Zealand birds and preserving them for the future are global challenges. Second generation sequencing technology now allows us to address these challenges with an unprecedented amount of genetic information.

As part of a new, Royal Society funded research programme our lab will use genomic data to study the molecular basis of the adaptations New Zealand birds have developed to fit into their unique environment. We will also use these data to evaluate and develop conservation strategies for some of New Zealands most endangered bird species. We are looking for a PhD student with skills in bioinformatics and genomic analyses to undertake research on bird evolution and conservation using whole genome data. The ideal candidate would have skills in programming, with a background in bioinformatics and a strong training and interest in genetics.

For scholarship and application details please see: http://www.nature.com/naturejobs/science/jobs/-515133-phd-projects-in-the-department-of-anatomy-university-of-otago and http://anatomy.otago.ac.nz/-phd-opportunities While there is no fixed application deadline, the selection process will start soon so an early application is advantageous. For questions about the project, please contact Dr Michael Knapp (michael.knapp@otago.ac.nz).

Michael Knapp <michael.knapp@otago.ac.nz>

UppsalaU Sweden ExperimentalEvolution NewGenes

We seek a highly motivated individual with a strong interest in pursuing a PhD degree in medical microbiology within a research program at Uppsala University. The projects will focus on mechanisms and dynamics of evolution, in particular the evolution of new genes.

Project description: The main objective of the project is to use and develop experimental model systems to study general mechanisms of evolution, with a focus on the evolution of new genes and functions. Experimental evolution, microbial genetics and whole genome sequencing will be the main tools to examine the roles of factors such as gene duplication, functional trade-offs and genetic variation in the evolution of novel functions.

For the full ad and application form go to: http://www.uu.se/en/about-uu/join-us/details/-?positionId=3D63275 More information on: http://www.imbim.uu.se/Research/Microbiology-immunology/Andersson_Dan_I/?languageId=1 For further details: contact Ass. Prof. Joakim Näsvall, joakim.nasvall@imbim.uu.se

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Joakim Näsvall Dept. of Medical Biochemistry and Microbiology Uppsala University BMC D7:3 Husargatan 3, Box 582 75123 Uppsala, Sweden Phone: +46-18-4714604

joakim.nasvall@imbim.uu.se

UQueensland SexBiasedGeneExpression

Genomics of Sexually Dimorphic Gene Expression

Applications for PhD positions in evolutionary genetics are invited in the lab of Steve Chenoweth at the University of Queensland. Our group uses genomic and quantitative genetic approaches to understand the evolution of sex differences and is currently focused on theevolution of sexually dimorphic gene expression. We use both model and non-model Drosophila species and have recently developed significant genomic resources for Drosophila serrata including de novo genome and transcriptomeassemblies, a panel of 100 re-sequenced lines and multiple sets of evolvingpopulations. Research projects will leverage these new resources to developinnovative approaches to understand the selective processes and constraintsthat influence the evolution of sexual dimorphism in the transcriptome.

Prior training in the following areas is highly desirable but not essential: quantitative or population genetics, bioinformatics, genomics or evolutionary biology.

Qualifications

Applicants require either a Bachelor's degree with Honours, 'Master of Science, MPhil or equivalent degrees. International applicants usually will have published some work in peer-reviewed journals.Australian and New Zealand applicants must have received first class Honours degrees. Scholarship schemes at the University of Queensland are highly competitive. The UQ Graduate School website provides further information on the entry requirements for admission to the PhD program (http://-/www.uq.edu.au/grad-school/our-research-degrees) and scholarship details. Individuals successful in gaining a tuition-fee waiver scholarship usually also obtain a living stipend.

Application process Interested candidates should send a cover letter describing their motivation and research interests along with a CV to s.chenoweth@uq.edu.au no later than Tuesday April 21st 2015. Short-listed candidates will be asked to provide further information and documentation and will be interviewed over Skype. Following, the final applicants will be invited to apply for a PhD at UQ. For further information on the UQ application process please contact the Postgraduate Administration Officer Gail Walter gj.walter@uq.edu.au

UQ and the School of Biological Sciences The School of Biological Sciences is a large and research-intensive unit at the University of Queensland, one of Australia'smost prestigious Universities. The School has broad expertise across the disciplines of ecology and evolution, molecular and quantitative genetics, developmental biology, behaviour, plant and animal physiology, and conservation biology. Our research programs span all scales of biological organisation, from molecules and cells, to organisms, populations, species and communities, and take advantage of study animal and plant systems in a large variety of habitats (see http://www.biology.uq.edu.au/ for detailed information on our research programs).

Steve Chenoweth Associate Professor School of Biological Sciences University of Queensland St. Lucia, QLD 4072 Australia

www.chenowethlab.org s.chenoweth@uq.edu.au

USouthernMississippi FishPopulationGenetics

A graduate assistant position (M.S. or Ph.D) is available in our laboratory to work on population genetics/genomics of marine and coastal fishes exploited in the Gulf of Mexico region. Current lab projects include exploitation of RAD-Tag sequencing data to generate linkage maps and/or analyze spatial genetic variation and population structure with application to the management of aquaculture programs and fisheries conservation.

The successful applicant will be provided a 12-month full-time Research Assistantship with a tuition waiver. Candidates should possess a Bachelor's degree in a relevant field (e.g. Biology, Ecology & evolutionary biology, Fisheries science, GPA $>$ 3.5) when applying for this position. Skills in programming/script-writing and experience with molecular techniques are strong assets. The position is available starting fall 2015.

Interested individuals should send a CV, GRE scores, and unofficial transcripts to:

Eric Saillant, Ph.D Associate Professor Department of Coastal Sciences The University of Southern Mississippi Gulf Coast Research Laboratory 703 East Beach Drive Ocean Springs, MS, 39564 Tel. (1) 228-818-8007 Fax (1) 228-872-4204 E-mail: eric.saillant@usm.edu

Eric Saillant <eric.saillant@usm.edu>

andrews.ac.uk>

UStAndrews Adaptation

Project title: Genome-scan methods for identifying genomic regions involved in adaptation to extreme environments

Supervisors: Oscar E. Gaggiotti (School of Biology, University of St Andrews) and Janine Illian (School of Mathematics & Statistics University of St Andrews)

Climate change can lead to extreme climate and weather events with dramatic negative impacts on both natural and domesticated species. Therefore, there is great interest in identifying genetic variants that may allow species to adapt to extreme environmental conditions. The field of population genomics addresses this problem by screening genome-wide patterns of DNA polymorphism to detect the locus-specific signature of positive selection. The objective of the doctoral project is to contribute to this emerging field by developing state of the art statistical methodology and a novel genome scan method to uncover associations between genomic regions and environment variables (e.g. temperature, aridity) from the joint analysis of population genomics and environmental data. The focus will be on spatial and spatio-temporal Bayesian methods implemented using the Integrated Nested Laplace Approximation (INLA).

We are looking for an enthusiastic, dynamic, and independent student interested in studies at the interface between statistics and population genomics. Candidates must have a strong background in statistics and an interest in population genetics and computational biology. They should also be proficient in English. The focus of the project is on statistical developments and data analysis so it does not include any lab or fieldwork.

Interested candidates should send CV, statement of interest and names and contact information of three references to oeg@st-andrews.ac.uk with the subject header PHD POSITION.

Oscar E. Gaggiotti Professor, MASTS Chair Scottish Oceans Institute East Sands University of St Andrews St Andrews Fife KY16 8LB UK http://biology.st-andrews.ac.uk/contact/staffprofile.aspx?sunID=-oeg http://www.congressgenetics.eu/-default.aspx http://intercrossing.wikispaces.com/-What+is+INTERCROSSING%3F http://-scholar.google.co.uk/citations?hl=en&user=-tfqcdv0AAAAJ Oscar Gaggiotti <oeg@st-

UZurich OrchidSpeciation

PhD Position " Ecological genomics of parallel pollinator-driven speciation in orchids

A PhD position is open for a highly motivated student with a keen interest in evolutionary and ecological questions, and a solid knowledge of genomics and bioinformatics/statistics.

The successful candidate will be part of a team investigating the molecular basis of parallel pollinator-mediated reproductive isolation and ecological speciation between sexually deceptive orchids of the genus Ophrys. The project seeks to understand the degree of convergence, at the phenotypic and molecular levels, of two cases of species divergence mediated by the same pollinators. In particular, the successful candidate will investigate (1) the extent of convergence in pollinator-attractive traits and reproductive isolation between species, (2) the extent of similarities in the genomic architecture underlying these adaptive traits, and (3) the evolution of specific metabolic pathways (and their regulation) controlling pollinator attraction. This multidisciplinary project will involve a combination of field work (in the Mediterranean) and state-of the art tools for phenotypic, metabolomic and ecological genomic (RNA-Seq and Exome-Seq) characterisation of natural plant populations. For background information on the study system, please see e.g. Schlüter & Schiestl (2008, Trends Plant Sci.), Schlüter & al. (2011, PNAS) and Sedeek & al. (2013, PLoS One; and 2014, Mol. Ecol.).

The ideal candidate should be highly motivated and able to articulate her/his motivation for this project clearly. S/he should be well organised, with a thorough understanding of evolutionary biology, population genetics and molecular biology, and should have an interest in orchid pollination. The candidate is expected to be proficient in statistical data analysis, with a good working knowledge of R and proven experience in bioinformatics, ideally with an ecological genomics background. Programming skills in other languages (e.g. Delphi or C/C++) are an advantage. Since the student will have to prepare libraries for Illumina sequencing, basic laboratory skills are necessary; previous field experience is a plus. Proficiency in English and good communication skills are essential, as is a completed MSc degree (or

equivalent) in biology or a related discipline, and the proven ability to carry out research independently.

We offer a 3-year PhD position at the University of Zurich, Switzerland, at a competetive salary (>47kCHF/a before tax) funded by the Swiss National Science Foundation. The student will be part of the Institute of Systematic Botany, located in the beautiful Botanic Gardens and within walking distance of Lake Zurich. The successful candidate will work in a young, active, interdisciplinary and stimulating environment and will have access to state-of-the-art tools and techniques.

Your application should consist of a letter of motivation (1-2 pages), your CV and (if applicable) publication list, and the names and e-mail adresses of three academic referees. The letter of motivation should detail why you think the project is relevant, why you are personally interested in it, and why you think you are well-suited to undertake it. Please send your application (or any requests for further information) electronically to Dr Philipp Schlüter (philipp.schlueter at systbot.uzh.ch). Screening of applications will begin immediately and continue until the position is filled. The preferred start date is 1st of June 2015.

philipp.schlueter@systbot.uzh.ch

Vienna PopulationGenetics

reminder: upcoming deadline

PhD positions in Population Genetics

Over the past years, Vienna has developed into one of the leading centres of population genetics. The Vienna Graduate School of Population Genetics has been founded to provide a training opportunity for PhD students to build on this excellent on site expertise.

We invite applications from highly motivated and outstanding students with a background in one of the following disciplines: bioinformatics, statistics, evolutionary genetics, functional genetics, theoretical and experimental population genetics. Students from related disciplines, such as physics or mathematics are also welcome to apply.

Topics include:

— Characterizing piRNA content in D. melanogaster and D. simulans — Statistical inference for experimental evolution using pooled NGS data — Population history and adaptation in natural Arabidopsis populations — Population trees and polymorphism-aware phylogenetic models — Episodic selection histories and co-evolution — Wolbachia infection dynamics in evolving Drosophila populations — Functional characterization of beneficial alleles in Drosophila — Genomic signature of migration between populations adapted to different environments — Identification and characterization of naturally occurring variation affecting reproductive diapause in D. melanogaster — Modified evolve and re-sequence design — Convergent and adaptive evolution during ecotype formation in Arabidopsis arenosa — Convergent and adaptive evolution during high-alpine ecotype formation in Heliosperma (Cariophylaceae — The role of epistasis for the invasion, establishment, and survival of locally beneficial mutations

Only complete applications (application form, CV, motivation letter, university certificates, indication of the two preferred topics in a single pdf) received by May 03, 2015 will be considered. Two letters of recommendation need to be sent directly by the referees.

All information about the about available topics, the training program and the application procedure can be found at www.popgen-vienna.at julia.hosp@gmail.com

WageningenU DarwinianAgriculture

PhD project (AIO) 'Darwinian Agriculture by fungus-growing termites'

Laboratory of Genetics, Wageningen University, Wageningen, The Netherlands

Within the recently funded VICI project 'Darwinian Agriculture. Guided by an ancient farming mutualism', a PhD position is available. Fungus-growing termites cultivate fungi of the genus Termitomyces, upon which they depend for food provisioning. A single colony cultivates a single clone of fungi, i.e. a monoculture, and this monoculture can remain productive for multiple decades. The overall question addressed in this project is how termites can maintain this high productivity of their monoculture for so long. This question is inspired by observations in laboratory evolution experiments showing fast decreases in productivity due to inadvertent selection of competitive traits that trade off with collective performance of the fungi. This PhD project will involve field work in South Africa, fungal isolation, microbial and DNA techniques. The preferred candidate

has experience with these techniques and is interested in evolutionary questions, especially the evolution of cooperation.

A full-time position (38 hours), initially for 1 year after which a go/no go decision will be taken on extension with another three years. Gross salary per month euro 2042,= in the first year rising to euro 2612,per month in the fourth year, for a fulltime appointment.

We are looking for a highly motivated, enthusiastic young researcher with a strong interest in evolutionary genetics/ecology and microbiology.

Following the European Commission's Guidelines for Equality between women and men the Max-CROP management team supports the promotion of women in the European Research Area, and encourages applications from women.

To apply, please send by email a cover letter, describing your motivation and suitability for the position, a detailed CV, and the name and address of two referees to support your application to Duur K. Aanen (duur.aanen@wur.nl). The deadline is 15 May 2015. Interviews will be held in Wageningen, The Netherlands.

Duur Aanen Laboratory of Genetics Wageningen University and Research Center The Netherlands Tel. +31(0)317 483144 Mobile: +31 (0)6 38140916 Fax: +31 (0)317 483146 http://www.gen.wur.nl/UK/-Staff/Scientific%20Staff/Duur+Aanen "Aanen, Duur" <duur.aanen@wur.nl>

Jobs

Amsterdam EvolutionSpeciesInteractions

Assistant Professor in Ecology and Evolution (tenure-track): 24 April deadline

We are seeking outstanding individuals with research interests at the interface of ecology and evolution, including evolution of species interactions, adaptation of animals to global change, and macro-evolution of traits in a comparative phylogenetic framework. Specifically we encourage applications of candidates who work with invertebrate model systems, and who complement the existing strengths in the Section. The successful candidate is expected to develop a vigorous, extramurally funded research program in her/his area of expertise. The candidate should provide high quality training to BSc, MSc and PhDstudents, and teach bachelor and master courses in Evolution & biodiversity, Human evolution, or courses in their area of specialization.

Requirements - A Ph.D. in Ecology or Evolution, with at least three years of postdoctoral experience. - Excellent research accomplishments, as expressed in high-impact publications - Evidence of successful acquisition of external funding - Demonstrated skills in activating teaching methods for BSc and MSc level courses - Excellent communication skills and ability to work in a team - Fluency in both written and spoken English.

Further particulars The intended starting date is November 1, 2015. We offer a tenure track position, initially for the duration of 6 years. After 1 and 5 years the performance will be evaluated in terms of publication record, acquisition success, teaching and academic leadership. After a successful evaluation permanent employment will be granted and a path will be outlined for future academic development.

Terms of employment The starting salary depends on the experience and qualifications and will be commensurate with university regulations for academic personnel. It ranges from euro 3,324 up to a maximum of euro 4,551 gross per month based on full-time employment. You can find information about the VU University Amsterdam excellent fringe benefits of employment at www.workingatvu.nl . Information Inquiries about the position can be made to the Head of Section prof. dr. Jacintha Ellers (j.ellers@vu.nl). Further information about the Department of Ecological Science and the section Animal Ecology is available through http://www.falw.vu.nl/en/research/ecological-sciences/index.asp Application Applicants should submit a complete Curriculum vitae, list of publications, a statement of research interest and the names and contact information of three professional references, by email to: Mrs. Tineke Reus: tineke.reus@vu.nl, with "TT in Ecology and Evolution" in the subject. Deadline for applications is 24 April 2015.

toby.kiers@vu.nl

BangorU CichlidGenomics

Research Officer

Bangor University - School of Biological Sciences

Fixed Term Contract, Salary Range: Â£31,342 - Â£37,394 p.a.

Applications are invited for the above 21-month fulltime BBSRC/NERC-funded post working in the School of Biological Sciences at Bangor University, as part of a collaborative project including Bristol University and The Genome Analysis Centre (TGAC), Norwich. Duties will include bioinformatic, molecular and morphological studies of hybridisation between native and introduced tilapia fish populations from Tanzania, including analysis of full genome sequences.

The post-holder will join a thriving research group at Bangor University working in the area of genetics, morphology, behaviour and conservation of African cichlid fish in implementation of this exciting collaborative project. We aim (1) to assess the extent and predictability of introgressive hybridization following introduction of exotic Oreochromis (mainly Nile tilapia) species into the range of native species in Tanzania, using genomic data; 2) to estimate the nature and basis of genomic introgression, including the types of genes most likely to introgress into native and exotic phenotypes and to estimate whether introgression of certain regions is predictable; 3) to develop a quick economical diagnostic test of the extent of introgression, using a SNP-chip based on 100 polymorphisms selected using the full genome sequences and chosen as diagnostic of the pure strains to allocate a 'hybrid score' to each individual and then to use this to calibrate phenotypic methods to diagnose hybrids; 4) to estimate the relative growth and ecological niche of pure native and exotic genotypes, as well as a range of hybrids and relate to phenotype to allow us to predict the likely outcome of the introduction 5) to enhance the genomic resources for Tilapia

strain improvement through bioinformatics (sequences of a range of native species), tissue/ sperm cryopreservation in collaboration with WorldFish and advising the Tanzanian Government agencies on the identification of candidate stocks for in-situ conservation. The post holder will be responsible for conducting, analysing and publishing a series of genomic studies based on tissue samples obtained from Tanzania in a parallel project funded by the Leverhulme Trust. This will involve basic molecular and morphological laboratory studies and advanced bioinformatic analyses.

Candidates should be educated to PhD standard (or equivalent) and have previous experience of molecular laboratory work and quantitative analysis of biological data, preferably including genome sequences. The successful candidate will be expected to commence on or before 1st July 2015.

Applications will only be accepted via the on-line recruitment website, jobs.bangor.ac.uk. However, in cases of access issues due to disability, paper application forms are available by telephoning 01248 383865.

Closing date for applications: Monday, 18th May 2015.

For further details and specific enquiries contact Prof. George Turner (george.turner@bangor.ac.uk).

Dr Martin Genner Senior Lecturer School of Biological Sciences Life Sciences Building 24 Tyndall Avenue Bristol BS8 1TQ

Phone: +44 (0)117 394 1182 Email: m.genner@bristol.ac.uk Webpage: http://-www.bristol.ac.uk/biology/people/martin-j-genner/-index.html bzmjg@bristol.ac.uk

ColbyCollege ResTech InsectWingEvolution

Research Technician Position Our lab at Colby College is searching for a full-time technician with experience in biological lab research for a continuing project investigating the development, genetics, and evolution of alternative wing size morphs in an insect. The project and position are supported through April 2019. Waterville, Maine is a beautiful place to live, and Colby is a great place to work. For more details on the position please see the posting on Colbys HR site, http://-www.colby.edu/administration_cs/humanresources/-employment/researchte ch_bio_4_2015.cfm or contact me by e-mail, dave.angelini@colby.edu.

Essential Functions and Responsibilities One opening for laboratory technician to assist research into the development biology, genetics and evolution of alternative wing size morphs in an insect. Technician is responsible for overseeing daily workings of the lab, conducting experiments and maintaining insect stocks, as well as ordering supplies and maintaining equipment. Applicants must be willing to work independently and communicate effectively with the principal investigator. Although student workers in the lab will be directly supervised by the principal investigator (faculty member), the technician will be working alongside undergraduate students, and will be expected to assist the PI in delegating tasks. Thus, the technician must have excellent skills in organization and communication. Clear attention to detail with accurate record keeping is required. Technician may also have creative input into the research.

Qualifications Applicants should have a minimum of a bachelors degree in biology or a related subject with experience working in a research laboratory setting. Technicians should have knowledge of basic concepts in molecular biology. Proficiency with computers and Microsoft Excel is required.

Preferred Qualifications - Master's degree in a biological science or 2 years experience as a research assistant - Experience with molecular genetics methods including PCR, DNA cloning, RNA synthesis and microinjection - Experience working in a lab performing next-generation sequencing - Knowledge of insect development, evolution or ecology

Interested candidates should submit a letter of interest, resume and the names and contact information of three professional references to hr@colby.edu and addressed to:

Biology Research Technician - Search Committee Human Resources Colby College 5500 Mayflower Hill Waterville, ME 04901-8855

Review of applications will begin May 5 and continue until the position is filled.

Colby College is committed to equality and diversity and is an equal opportunity employer. We encourage inquiries from candidates who will contribute to the cultural and ethnic diversity of our college. Colby College does not discriminate on the basis of race, gender, sexual orientation, disability, religion, ancestry or national origin, or age in employment or in our educational programs.

David R. Angelini, PhD Assistant Professor Department of Biology Colby College 5734 Mayflower Hill Waterville, ME 04901 - office phone: 207-859-5734 http://web.colby.edu/aphanotus/ @Aphanotus http://-

www.bugsinourbackyard.org/ @Jhaematoloma

david.r.angelini@gmail.com

CollegeWilliamMary 1yr EvolutionaryBiol

Visiting Assistant Professor, Evolutionary Biology

The Department of Biology at the College of William and Mary seeks applications for a non-tenure track one-year position Visiting Assistant Professor in EVOLUTIONARY BIOLOGY, with additional teaching responsibilities in either Animal Behavior or Conservation Biology. The candidate is expected to teach a sophomore-level Evolution of Organisms lecture course and an upper-level seminar course (in the candidate's area of expertise) in one semester, and an advanced undergraduate lecture course in either Animal Behavior or Conservation Biology as well as an upper-level seminar course (in the candidate's area of expertise) in the other semester. Postdoctoral experience is preferred. Prior experience teaching undergraduate courses will be viewed favorably. The department and College strongly value excellence in teaching and there are many on-campus initiatives to aid faculty in developing their teaching abilities and skills.

The official position ad can be found at: https://-/jobs.wm.edu/postings/20602 Review begins April 30, 2015 and will continue until an appointment is made. Submit online a letter of application, curriculum vitae, statement of teaching philosophy, and a list of courses taken/taught relevant to the position at www.jobs.wm.edu. Also submit separately online the names and email addresses of three references who may be contacted by us with instructions for how to submit a letter of reference. Information on the undergraduate and Masters degree programs in the Department of Biology and this position may be obtained at http://-www.wm.edu/biology .The College is an EEO/AA employer and actively encourages applications from minorities, women, disabled persons, and veterans.

Questions? Contact John Swaddle, Chair of the Search Committee (jpswad@wm.edu, 757-221-2231). A full list of contact information of other biology faculty is available on the department's website (http://www.wm.edu/-as/biology).

Dr. John P Swaddle Professor Institute for Integrative Bird Behavior Studies Biology Department College of William and Mary Williamsburg, VA 23187-8795 Tel. 757 221 2231 Lab wesite: http:/-/jpswad.people.wm.edu/ ResearchGate: https://-www.researchgate.net/profile/John_Swaddle/?ev=-3Dhdr_xprf jpswad@wm.edu

Germany SofjaKovalevskajaAward Jul31Deadline

With the Sofja Kovalevskaja Award, the Alexander von Humboldt Foundation is offering promising young researchers from all over the world attractive career prospects in Germany. Junior research talents of all disciplines from abroad are given the opportunity to establish working groups of their own at German research institutions.

The Sofja Kovalevskaja Award recognises outstanding talent and creative research approaches with exceptional conditions: With an award amount of up to euro 1.65 million each winner receives valuable starting capital to spend five years pursuing an innovative research project at a research institute of his or her choice - untroubled by administrative constraints. In addition, the establishment of their own junior research team enables the award winners to lay an important foundation for a promising academic career at a very early stage. Eight awards are expected to be granted.

Outstandingly qualified junior academics of all disciplines from abroad who completed their doctorate less than six years ago are eligible to apply for the Sofja Kovalevskaja Award. It is also possible to submit applications immediately after finishing one's doctoral studies. Applications must be submitted by 31 July 2015.

We should be very grateful if you would support our search for young international research personalities by disseminating this announcement at your institution and also asking your colleagues to draw the attention of appropriately qualified research talents to this academic award.

Details of the application procedure for the Sofja Kovalevskaja Award can be found on our website at: www.humboldt-foundation.de/skp_en. For individual questions, you are also welcome to contact info@avh.de.

Klaus Reinhardt, Dr. rer.nat. Professor for Applied Zoology Technische Universität Dresden D-01062 Dresden http://tudaz.net Klaus Reinhardt <k.reinhardt@sheffield.ac.uk>

InstitutPasteur Paris 10 Bioinformatics

Ten permanent positions in Bioinformatics and Biostatistics at Institut Pasteur (Paris)

The new direction of Institut Pasteur has defined bioinformatics and systems biology as strategic priorities. A ≪ Center for Bioinformatics, Biostatistics and Integrative Biology ≫ has been recently created on the Parisian Campus. The objective of this center is to federate and strengthen capacities in bioinformatics in different yet complementary research areas developed within the Institute, such as genomics of hosts and pathogens, biology of infection, evolutionary genetics, population genetics, structural biology or health biology.

In this framework, Institut Pasteur proposes 10 permanent positions in bio-informatics and biostatistics for 2015. People will be affiliated to the new center and to the Hub of bioinformatics and biostatistics and will be supervised by the director of the Center. They may be assigned for most of their time to research units and / or platforms to work on different projects while being close to the data and experimental biology.

To apply (deadline: May 15) and know more on these positions: https://c3bi.pasteur.fr/hub-available-positions Olivier Gascuel <gascuel@lirmm.fr>

MasseyU NZ EvolutionaryEcol

We seek to appoint a new Lecturer in Ecology within the Institute of Agriculture and Environment (IAE) at Massey University's Palmerston North campus, New Zealand

http://massey-careers.massey.ac.nz/8723/lecturer-in-ecology Closing date is 30 April 2015

Applicants for the position will have excellent academic credentials and a PhD in Ecology or related discipline, a demonstrated track record of high-quality research outputs and success in obtaining research grants. The successful candidate will pursue research of international calibre, attract external research funding, supervise postgraduate students, and teach at all levels, both within the BSc Major in Ecology and also potentially across related fields (e.g., Conservation Biology, Environmental Science, Zoology, Physiology, Biometry), engaging in novel curriculum development for research-led teaching. The successful candidate will also engage in outreach and administrative services to the University and broader academic and professional communities.

We seek candidates whose research programme will complement and enhance the existing Ecology Group research capabilities within IAE, which has strengths in behavioural ecology, population and community ecology, evolutionary ecology, freshwater ecology, plant ecology, conservation biology, zoology, and environmental science and management. The ideal candidates will also establish collaborations with researchers from other disciplines within IAE. Applicants from all fields of Ecology will be considered, but those with expertise in ecosystem ecology, microbial ecology, landscape ecology, behavioural ecology, evolutionary ecology, population ecology, or applied entomology are particularly encouraged to apply.

Level of position and salary will be commensurate with experience.

For further information please visit; http://-jobs.massey.ac.nz/ Enquiries of a scientific nature should be directed to Prof Murray Potter (telephone +64 6 356 9099 ext: 84836; DDI +64 6 9517836; Fax: +64 6 3505623. Email: m.potter@massey.ac.nz. Information about the Ecology Group and links to other IAE pages can be found at http://ecology.massey.ac.nz . M.Morgan-Richards@massey.ac.nz

MuseumKoenig Bonn TechAssist EvolutionaryGenomics

Technical Assistant E7 (TV-L 7) to work at the heart of the Evolutionary and Environmental Genomics group at the Centre for Molecular Biodiversity Research in the Museum Koenig, Bonn.

Responsibilities: - Preparation of environmental and museum samples for molecular work (biological experiments maintenance, sample manipulation and preparation; DNA and RNA extraction) -Carry out basic molecular biology procedures as well as specific molecular techniques for Next Generation Sequencing (NGS) approaches, such as PCR and library preparation - Assess the quality of the NGS libraries (Fragment Analyzer,

RT-qPCR) - Keep good laboratory practice, stock and reagent preparation; ensure lab safety; assist with the ordering and inventory of lab supplies, if needed -Provide logistics, organisational and technical support for the Environmental Genomics research team -Develop and adapt new technologies and protocols and to learn new techniques

Qualifications and requirements: -Education preferably in the biological or technical field/ MSc., BSc. Chemistry or Biology are welcome or relevant laboratory experience. - Extensive experience in molecular biology techniques and laboratory work. Including at least two of the following areas: DNA/RNA processing (extraction, purification, quantification), molecular cloning, next-generation sequencing library preparation, digital PCR and PCR techniques (PCR, RT-PCR, qPCR). - Speaking and writing fluency in English is considered essential due to the international nature of the group - Good Computer skills (MS Word and Excel) and basic knowledge on DNA sequence software would be a plus - Strong communication and interpersonal skills, excellent organizational skills, work independently and the ability to work as part of a team, highly motivated and with problem solving skills

The post is fixed term until 08/09/ 2016 to cover for maternity leave. Women will be given preference in accordance with the country's equality law with the same qualifications. Handicapped applicants will be preferred in case of equal qualification. The position is remunerated according to TV-L 7. In addition to an exciting, autonomous task in an excellent research institution, we offer you a discounted wholesale ticket and attending training courses. Please send your CV and Letter of Intent until the 22/04/2015 by registered mail post to the Administration Office, z. Hd. Frau Heike Lenz, Zoological Research Museum Alexander Koenig, Centre of Molecular Biodiversity, Adenaurallee 160, 53113 Bonn, Germany. E-mail applications will not be considered. https://www.zfmk.de/de/zfmk/arbeiten-am-zfmk/stellenangebote Vera G. Fonseca (PhD) Head Environmental Genomics Zoological Research Museum Alexander Koenig (ZFMK), Centre for Molecular Biodiversity Research, Adenauerallee 160, 53113 Bonn, Germany Tel.: +49 (0)228 9122 283 Fax: +49 (0)228 9122 295 www.zfmk.de www.bolgermany.de Vera Fonseca <vfonseca@uni-bonn.de>

NatlScienceFoundation US ProgramDirector

Permanent position at NSF in Population and Community Ecology

The Division of Environmental Biology at NSF seeks applicants for a Program Director in its Population and Community Ecology cluster. This is a permanent position, with good benefits and a salary range of $107,325 - $167,252. Previous experience at NSF as a non-permanent Program Director (a "rotator") is helpful but certainly not essential. The deadline is May 4, 2015 and the application process is relatively simple.

Applicants should have expertise in at least one of the following: population ecology, species interactions and community dynamics in terrestrial, wetland or freshwater habitats.

For details, please see the USAjobs.gov posting (link below) or contact Doug Levey (dlevey@nsf.gov). Members of underrepresented groups, including individuals with disabilities, are encouraged to apply.

https://www.usajobs.gov/GetJob/ViewDetails/-399791500 Leslie J. Rissler, Ph.D. Program Director Evolutionary Processes Cluster Division of Environmental Biology National Science Foundation 4201 Wilson Blvd. Arlington, VA 22230

lrissler@nsf.gov (703) 292-4628 Stafford I, Suite 655.13

"Rissler, Leslie J." <LRISSLER@nsf.gov>

OutreachNotice USFS-Cali GeneticsLabManager

OUTREACH (formal posting to follow) Washington Office Forest Management

Lab Manager (Geneticist/Biological Scientist) GS-0440/0401-09 (Permanent, Full-time) National Forest Genetics Laboratory (NFGEL) Location/Duty Station: Placerville, CA

About the Position: The USDA Forest Service Forest Management Staff is filling a permanent, full-time Lab

Manager (Geneticist/Biological Scientist) position with the National Forest Genetics Laboratory (NFGEL). The NFGEL mission is to link science to management in the area of genetics. The lab uses molecular genetic markers (protein and DNA) in plant material to provide baseline genetic information, determine the effect of management on the genetic resource, support genetic improvement programs, and contribute information in the support of conservation and restoration programs, especially those involving native and TES (threatened, endangered, and sensitive) species.

The primary duties of the position are to (1) conduct molecular genetic analyses of plants, (2) maintain a safe and functioning molecular genetic laboratory, (3) maintain the identity and proper processing of all samples received, and (4) provide technical guidance and instruction to laboratory staff.

The position will be located in Placerville, California (El Dorado County) at the Institute of Forest Genetics in the Apple Hill area. It is being advertised at the GS-9 level and will be filled based on qualifications and experience of the individual selected.

Placerville is located on Highway 50 about 30 miles east of Sacramento. Highway 50 is a major trans-Sierra route between the State Capitol at Sacramento and scenic Lake Tahoe. The community is located in the foothills of the Sierra Nevadas at an approximate elevation of 2500 feet. Placerville is a full service community.

Vacancy Announcement : The vacancy announcement for this position will be posted on the U.S. Government's official website for employment opportunities at www.usajobs.gov .

Outreach Response: Interested applicants, or those desiring further information, should complete an outreach form. Please contact Valerie Hipkins (NFGEL Director) at 530-622-1609 or email at vhipkins@fs.fed.us for instructions.

Many thanks, Jenn

Jennifer DeWoody, PhD Geneticist Forest Service National Forest Genetics Lab p: 530-621-6883 jadewoody@fs.fed.us www.fs.fed.us

Caring for the land and serving people

jadewoody@fs.fed.us

PlymouthU BehaviourEvolution

Plymouth University, Devon, UK Lecturer/Associate Professor (Senior Lecturer/Reader) in Animal Behaviour and Welfare

The School of Biological Sciences at Plymouth University is looking to appoint dynamic and enthusiastic academics to contribute to its ongoing success and growth. The School has existing research and teaching strengths in areas of ecology, animal behaviour, microbiology, food security, ecotoxicology, and environmental risk assessment.

You will have experience of research in animal behaviour and /or animal welfare to complement our existing research and teaching profile. We particularly encourage applications from those whose research focuses on the mechanistic underpinning of animal behaviour and animal welfare (e.g. physiology, neurobiology). Although there is some flexibility the post holder will be required to deliver teaching in animal physiology and/or health within the general wider context of behaviour and welfare. For informal discussion on this post please contact Dr Sarah Collins, Associate Professor in Animal Behaviour, tel: 01752584616 email: sarah.collins@plymouth.ac.uk

Full details:

http://www.jobs.ac.uk/job/AKW611/lecturer-associate-professor-senior-lecturer-reader-in-animal-behaviour-and-welfare/ Dr Michael Thom Lecturer in Evolutionary Biology School of Biological Sciences University of Plymouth PL4 8AA +44(0) 1752 5 84473 http://www5.plymouth.ac.uk/staff/mthom michael.thom@plymouth.ac.uk

SeniorEditor FuncEcology

The journal /Functional Ecology/ is seeking a Senior Editor to strengthen and complement the current editorial team and to continue raising the Journal's profile worldwide. The Journal's Senior Editors are supported by an international board of Associate Editors and dedicated editorial office personnel. The Se-

nior Editors work together to determine Journal strategy and to increase the reputation and quality of the Journal, in addition to making decisions on submitted manuscripts. Further details about the Journal and its current editorial team can be found on the journal website www.functionalecology.org . Applications are welcome from leading scientists from any field who could contribute to the Journal's development in topical and developing areas, but we particularly seek applications from ecologists (including evolutionary ecologists) with expertise in the areas of animal physiology or plant-animal interactions and who are enthusiastic about increasing the journals online profile through the use of social media and/or multimedia (e.g. interviewing authors in podcasts, coordinating production of videos highlighting author contributions). Applications from those who could help increase the geographic or gender diversity of the board would be welcome.

Editors must be highly motivated, decisive, and be outstanding communicators that are expected to act with probity. They must have an excellent understanding of their own field of ecology, as well as the wider discipline; have experience of refereeing and the editing processes; a commitment to maintaining the high editorial standards of the journal; and an interest in ongoing developments within academic publishing. This post is a part-time three-year contract (current salary c. Â£5,900 per annum) located at the holder's host university or organisation. Some additional support is available to facilitate attendance at meetings with other BES journal editors and to act as ambassadors for the journal at relevant conferences.

Please see the *full job description* here: http://-www.britishecologicalsociety.org/wp-content/uploads/-Publ_FE_Advert-for-FE-editor_April-2015.pdf. The post can be discussed further with the Executive Editor, Professor Chuck Fox (cfox@uky.edu).

To apply, please send your CV and a letter stating what you have to offer to the Journal and how you would contribute to developing it over the next three years to Andrea Baier, Senior Managing Editor: andrea@britishecologicalsociety.org.

Interviews will take place on Wednesday 17th June 2015.

– Dr. Charles W. Fox Professor and Director of Graduate Studies Department of Entomology University of Kentucky Lexington, KY 40546-0091 phone: 859-257-7474 e-mail: cfox@uky.edu web: www.uky.edu/~cfox Charles Fox <cfox@uky.edu>

SmithCollege ResAssist CiliateBiodiversity

Greeting Colleagues,

We are hoping to hire research assistant to work on the biodiversity of marine ciliates within the Biological Sciences department at Smith College, USA.

The research project involves the use of molecular tools to explore biodiversity of eukaryotic microorganisms, particularly ciliates, in marine environments. The RA will also maintain data in a well-organized database, with attention paid to details of completeness and quality. This research project focuses on characterization of near-shore communities of oligotrich and choreotrich ciliates using DGGE and next generation sequencing technologies. This is a grant-funded, limited-term position with the possibility of renewal.

You can find more details and submit your materials through:

https://smithcollege.hiretouch.com/search-jobs (search for "research assistant')

Please forward this email and attachment to anyone you think might be interested in this position.

Thank you Dr. Jean-David Grattepanche and Dr. Laura A. Katz

Jean-David GRATTEPANCHE , Postdoctoral fellow PhD in Biological Oceanography jgrattepanche@smith.edu http://-jeandavidgrattepanche.weebly.com Katz lab Department of Biological sciences Smith College 44 College Lane Northampton. MA 01063

"Jean-David GRATTEPANCHE (Smith mail)" <jgrattepanche@smith.edu>

SmithCollege ResAssist MarineCiliates

Greeting Colleagues,

We are hoping to hire research assistant to work on the biodiversity of marine ciliates within the Biological

Sciences department at Smith College, USA.

The research project involves the use of molecular tools to explore biodiversity of eukaryotic microorganisms, particularly ciliates, in marine environments. The RA will also maintain data in a well-organized database, with attention paid to details of completeness and quality. This research project focuses on characterization of near-shore communities of oligotrich and choreotrich ciliates using DGGE and next generation sequencing technologies. This is a grant-funded, limited-term position with the possibility of renewal.

Attached is a detailed description of the position.

Please forward this email and attachment to anyone you think might be interested in this position.

Thank you Dr. Jean-David Grattepanche and Dr. Laura A. Katz

Jean-David GRATTEPANCHE , Postdoctoral fellow PhD in Biological Oceanography jgrattepanche@smith.edu http://-jeandavidgrattepanche.weebly.com Katz lab Department of Biological sciences Smith College 44 College Lane Northampton. MA 01063

"Jean-David GRATTEPANCHE (Smith mail)" <jgrattepanche@smith.edu>

Sweden 6 BioinformaticsSupport

Six (6) permanent positions providing advanced bioinformatics support, located at SciLifeLab Bioinformatics Platform nodes across Sweden.

The SciLifeLab bioinformatics platform (www.scilifelab.se/platforms/bioinformatics/) is a national infrastructure in rapid growth and development, now looking for 6 permanent staff members to join the Bioinformatics Long-term Support team (a.k.a WABI), placed at bioinformatics nodes in Umeå, Linköping, Göteborg, and Lund. The advertised staff will be fully integrated in the national Bioinformatics Long-term support team, and will aid the build-up of the national platform by establishing local platform nodes.

To be considered for these positions * you now need to submit a formal application to the respective university, following the below links * you will have to apply to each position individually if you are open to work in any of the cities below.

Please follow the links for more information and application forms: Lund: https://lu.mynetworkglobal.com/-en/what:job/jobID:62539/where:4/ Göteborg http:/-/www.chalmers.se/en/about-chalmers/vacancies/-?rmpage=3Djob&rmjob=3D3027 Umeå https://-umu.mynetworkglobal.com/en/what:job/jobID:63586/-where:4/ Linköping http://www.liu.se/jobba/-lediga-jobb?l=3Den&&rmpage=3Djob&rmjob=-3D1701&rmlang=UK We are looking forward to receive your applications at the latest May 7, 2015 (a week later for Linköping). You are always welcome to contact both the local contact person or the Bioinformatics Long-term Support managers regarding these positions.

Björn Nystedt, bjorn.nystedt@scilifelab.se, +46 (0)73-402 62 31 Thomas Svensson, thomas.svensson@scilifelab.se, +46 (0)73-625 14 88 Managers, SciLifeLab Bioinformatics Long-term Support www.scilifelab.se/platforms/bioinformatics/

Bjorn Nystedt, PhD Manager, SciLifeLab Bioinformatics Long-term Support (WABI) www.scilifelab.se/-facilities/wabi/ BMC E10:3206, entrance C11 Husargatan 3, SE-752 37 Uppsala

Phone: 018 - 471 4413 E-mail: bjorn.nystedt@scilifelab.se

bjorn.nystedt@scilifelab.se

Trondheim Norway MolecularBiodiversity

Associate Professor of Molecular Biodiversity

The NTNU University Museum is seeking a highly qualified and motivated candidate for an associate professor position in molecular biodiversity. The position is part of NTNU's strategic focus on young, ambitious and excellent researchers (the "Onsager fellowships") and is financed for 6 years. After this time it is expected that the candidate will obtain full professor qualifications and permanent employment.

The position in molecular biodiversity is central in the Department of Natural History's strategy for further increasing the use of next generation sequencing data in studies of patterns and changes of biodiversity in time and space. More specifically, the successful candidate will carry out cutting-edge research within the field of evolutionary and environmental genomics, and extensive experience in handling and analyzing complex genomic

data sets using custom scripts and open source tools is expected. Background in population genomics, phylogenetics and proficiency in statistics is considered essential. The candidate must have experience in team-work and is expected to be working with broad research topics within evolutionary biology and ecology.

The successful applicant will have a strong interest in evolutionary biology and a PhD in biodiversity science (molecular ecology, molecular systematics or closely related fields of evolutionary biology research) or bioinformatics. Experience in analyses of different types of molecular data is an advantage. Applicants must document excellence in research during and after completed PhD, be goal-oriented and able to deliver results when expected. Excellent skills in written and spoken English and creative problem-solving abilities are expected.

Application deadline is 25 May 2015.

For full job description, please see http://-www.jobbnorge.no/en/available-jobs/job/112322/-associate-professor-of-molecular-biodiversity More information about the department and the position can be obtained from Head of Department Torkild Bakken, phone: +47 73 59 23 82, e-mail torkild.bakken@ntnu.no; Professor Hans K. Stenøien, phone: +47 73 59 22 84; e-mail hans.stenoien@ntnu.no; Professor Torbjørn Ekrem, phone: +47 73 59 78 12, e-mail torbjorn.ekrem@ntnu.no.

Information about Trondheim can for instance be found here: http://en.wikipedia.org/wiki/Trondheim Hans K. Stenøien professor of biology, NTNU University Museum http://www.ntnu.edu/employees/hans.stenoien "Hans K. Stenøien" <hans.stenoien@ntnu.no>

UCalifornia Berkeley ResTech Choanoflagellates

http://www.hhmi.org/careers/2370 < http://www.hhmi.org/careers/2370 >

*Job Summary: *

The Howard Hughes Medical Institute has an exciting opportunity for a Research Technician to join one of its laboratories at the University of California, Berkeley.

The laboratory studies choanoflagellates, the closest living relatives of animals, to reconstruct animal origins and investigate molecular mechanisms underlying host-microbe interactions. We seek a highly motivated and exceptionally organized biologist to assist in developing genetics and genome editing in the emerging model choanoflagellate species S. rosetta. Individuals seeking an exciting research opportunity are invited to apply.

*Principal Responsibilities: *

- Perform flow cytometry to track ploidy changes in choanoflagellates. - Generate and perform microscopy to screen for choanoflagellate mutants. - Isolate, catalog, and characterize new mutant strains. - Prepare DNA and RNA for gene delivery. - Troubleshoot methods for gene delivery, including transfection and electroporation. - Keep meticulous laboratory records. - Participate in laboratory meetings and planning sessions. - Read literature relevant to research areas as required. - Assist lab members in a variety of cellular and molecular biology techniques in other projects ongoing in the lab.

*Preferred Qualifications: *

- Bachelors or Masters degree in Biology, Bioengineering or a related field. - Knowledge of basic principles of genetics, gained through coursework or prior laboratory experience. - At least one year of experience working in a laboratory setting. - Experience with molecular biology techniques, flow cytometry, microscopy, tissue culture, and sterile technique. - Demonstrated ablility to troubleshoot and perform a variety of new techniques. - Exceptional organizational skills and record keeping. - Strong oral and written communication. - Self-motivated, detail-oriented and able to perform complex tasks effectively and independently with general instruction, while being engaged in a collaborative project.

To apply, please send a single .pdf file that includes the following to Heather L. Middleton (Lab Manager, kinglab@berkeley.edu) with the following:

Cover letter

Resume, emphasizing prior research experience

Contact information for three references

Course transcripts

Please include "Research Technician" in the subject line of your email. Application Deadline: Open Until Filled

HHMI is an Equal Opportunity Employer

N King <nicoleking.ucb@gmail.com>

UCalifornia Berkeley ResTech EvolGenomics

Research Technician in Evolutionary Genomics UC Berkeley

The Rosenblum Lab at UC Berkeley is looking for a research technician to join a dynamic research group and contribute to a number of projects that use genomic tools to address fundamental questions about the processes that generate and threaten biological diversity. The research technician will be involved in collecting and analyzing molecular datasets, with a particular emphasis on RAD, RNAseq, and exon capture projects. The research technician will also share responsibility for day-to-day lab operations including laboratory administration, regulatory compliance, and mentoring undergraduate researchers. Start-date will be in summer 2015, and initial appointment will be for one year. More information about research activities in the Rosenblum Lab is available at http://nature.berkeley.edu/rosenblum . Preferred qualifications include a Bachelor's or Master's degree in Biology (or related field), strong molecular wet-lab training, and excellent organizational skills. Ability to communicate clearly, work independently, and interact collaboratively is essential. If interested, please send a single pdf that contains a letter of interest, a CV, and the contact information for three references to rosenblum@berkeley.edu by Thursday May 7, 2015. The letter of interest should be no more than one page and address prior research experience, career goals, and fit for the position.

rosenblum@berkeley.edu

UCalifornia SantaBarbara ResTech InvertPhylogenetics

The Lab of Todd Oakley at UCSB is seeking to hire a lab manager/lab technician. A major project will be to help develop target enrichment protocols for invertebrate phylogenetics. This position would be ideal for a recent or graduating biology undergraduate with experience with molecular techniques and an interest in evolution and invertebrate zoology.

To apply, please follow the link to the UCSB HR website:

jobs.ucsb.edu/applicants/Central?quickFind9032

Todd Oakley <todd.oakley@lifesci.ucsb.edu>

UdeConcepcion Chile 2 SystematicsBiodiversity

TWO TENURE TRACK POSITIONS IN SYSTEMATICS AND BIODIVERSITY

UNIVERSIDAD DE CONCEPCION (CHILE), DEPARTMENT OF ZOOLOGY

Description: The Department of Zoology at Universidad de Concepción, Chile, invites applications for two tenure-track faculty positions at the Assistant Professor level to strengthen the areas of Systematics and Biodiversity. Both positions are available starting August 1st, 2015. The ideal candidate for the first position has broad expertise in Ecophysiology, Comparative Physiology and related disciplines. The ideal candidate for the second position has broad expertise on Marine Invertebrates. We welcome applications from candidates employing integrative approaches that address relevant scientific questions across multiple disciplines, such as taxonomy, systematics, ecology, genetics, evolution, conservation and biogeography.

Qualifications: Ph.D. degree in biology or related field, postdoctoral experience and a record of academic accomplishments. These may include, but are not limited to, research experience demonstrable through publications and grants; undergraduate and postgraduate courses implemented in his/her area of expertise; and participation in international conferences. Fluency in Spanish language is an advantage.

Responsabilities: Develop an integrative research program in Ecophysiology or Marine Invertebrates, while securing funding for basic or applied science from government and other agencies; teach a course in his/her area of expertise and be committed to both undergraduate and graduate education; and mentor graduate and undergraduate students. Interactions with other research groups within and outside the Department are encouraged.

Applications: interested candidates should send (1) a cover letter specifying which academic position he/she is applying to (Ecophysiology: ZOO-01; Marine Invertebrates: ZOO-02), (2) a *curriculum vitae*, (3)

statement of research interests and plans, and (4) two recommendation letters sent in separate covers to: Universidad de Concepción, Dirección de Personal, Casilla 160-C, Correo 3, Universidad de Concepción, Concepción, Chile. Alternatively, a single PDF file with all the documentation required can be sent to evaluating.committee@gmail.com. Informal enquiries can also be made to this email address. Deadline for applications is May 16 th, 2015. Additional information about the Department of Zoology and about Universidad de Concepcion can be found on the website: http://www.natura.udec.cl/departamentos/zoologia/ Dr Daniel Gomez-Uchida

Assistant Professor Dept Zoology

@dgomezuchida

dgomezu@udec.cl

Dr Daniel Gómez Uchida Assistant Professor Departmento de Zoología & Interdisciplinary Center for Aquaculture Research (INCAR) Universidad de Concepción Casilla 160-C Concepción, Chile Tel +56-41-2726579 Fax +56-41-2238982 dgomezu@udec.cl http://-/www2.udec.cl/ ˜ dgomezu/ Daniel Gomez Uchida <dgomezu@udec.cl>

UEastAnglia Summer ModelingMHC

Title of post: "Paid internship to model MHC evolution"

We are looking for an undergraduate to undertake a paid internship this summer at the University of East Anglia, UK, to implement a novel model of MHC evolution, which we are developing.

Info, and candidate specifications can be found here: http://tinyurl.com/lytx83g Candidates can be from any quantitative discipline, but not environmental science.

Cheers, Jackie Lighten UEA

Jackie Lighten <jackielighten@gmail.com>

UExeter 4 EvolutionConservation

The adverts for our pending academic positions at the CEC http://biosciences.exeter.ac.uk/cec/ are now live: For Professor in Biosciences (Ref: P48365) and For (3 positions) Lecturer/Senior Lecturer/Associate Professor in Biosciences (Ref: P48364)

Applicants should be broadly aligned with one or more of our key areas (ecology, conservation, evolution, behaviour). However we are particularly interested in strengthening our activities in disease, population and community ecology as well as ecological and evolutionary genomics. Interest from independent research fellows are also welcomed.

Interested applicants should contact either Brendan Godley (B.J.Godley@exeter.ac.uk) or Nina Wedell (N.Wedell@exeter.ac.uk).

See: https://jobs.exeter.ac.uk/-hrpr_webrecruitment/wrd/run/-ETREC107GF.open?VACANCY_ID@1631CBWV&WVID817591jNg&L USA https://jobs.exeter.ac.uk/-hrpr_webrecruitment/wrd/run/-ETREC107GF.open?VACANCY_ID5055CBU5&WVID817591jNg&LA USA Prof DJ Hosken University of Exeter, Cornwall Tremough, Penryn TR10 9FE UK

01326 371843 D.J.Hosken@exeter.ac.uk

http://biosciences.exeter.ac.uk/staff/-index.php?web_idÚvid_hosken DJ Hosken <D.J.Hosken@exeter.ac.uk>

UFlorida BatMoth SummerREU

We are seeking 2 undergraduate REU students this summer to assist in a project on the evolution of bat-moth intersections. Please see below for this opportunity, and send to anyone that might be interested.

RESEARCH EXPERIENCES FOR UNDERGRADUATES (REU) - SUMMER 2015

We are seeking applicants for two NSF Research Experience for Undergraduates (REU) positions in Summer 2015 with a particular interest in systematic entomology

and museum collections to take part in an NSF-funded research project on the evolution of bat-moth interactions. The students will gain experience in digitization, geometric morphometrics, molecular data acquisition, phylogenetic analysis and potential co-authorship in a resulting publication.

The students will spend the equivalent of 10 weeks full-time working on the project between June-August 2015, with hours somewhat flexible, and will receive a stipend. The project will take place at the McGuire Center for Lepidoptera and Biodiversity, Florida Museum of Natural History, University of Florida, Gainesville, FL. Both students must be a citizen or permanent resident of the USA and enrolled as an undergraduate student at a US institution in Fall 2015 (although not necessarily registered for classes). The project is in collaboration with the Barber Lab at Boise State University, and the students will be involved in projects lead by Drs. Akito Kawahara and Jesse Barber. I stipend of $2500/month will be provided to cover housing and other expenses, and additional funds could be available for travel to a scientific conference.

Recent relevant publications include: Barber, J., Leavell, B.C., Keener, A.L., Breinholt, J.W., Chadwell, B.A., McClure, C.J.W., Hill, G.M., Kawahara, A.Y. 2015. Moth tails divert bat attack: Evolution of acoustic deflection. Proceedings of the National Academy of Sciences, USA 112(9): 2812-2816.

Kawahara, A.Y., Breinholt, J.W. 2014. Phylogenomics provides strong evidence for relationships of butterflies and moths. Proceedings of the Royal Society B, Biological Sciences 281: 20140970.

Barber, J.R., Kawahara, A.Y. 2013. Hawkmoths produce anti-bat ultrasound. Biology Letters 9: 20130161.

Eligibility: Applicants must: 1) Be enrolled as an undergraduate student in Fall 2015 (though not necessarily registered for classes).

2) Be a citizen or permanent resident of the USA.

3) Have a basic understanding of biological nomenclature, an interest in evolutionary biology and sufficient manual dexterity to handle fragile museum specimens. A proven interest in systematic biology is a distinct advantage.

Application requirements:

1. Statement of interest in the project (less than 400 words), including general research interests, experience and professional goals, and specific interest in this project.

2. CV, including full name, current institution, major, date of first enrollment and expected graduation date, overall GPA and major GPA.

The above documents should be sent by e-mail as attachments to Dr. Akito Kawahara,kawahara@flmnh.ufl.edu, copied to Ms. Geena Hill, geena.hill4@gmail.com.

3. One letter of recommendation from a faculty or staff member at your current or prior institution. This letter should be sent by e-mail directly from the referee to Dr. Akito Kawahara,kawahara@flmnh.ufl.edu, copied to Ms. Geena Hill, geena.hill4@gmail.com. For more information contact Akito Kawahara (kawahara@flmnh.ufl.edu) or Ms. Geena Hill (geena.hill4@gmail.com). Further information on this project can be found at: http:/-/www.flmnh.ufl.edu/mcguire/kawahara/ Application Deadline: April 20, 2015

Akito Y. Kawahara Assistant Curator of Lepidoptera McGuire Center for Lepidoptera and Biodiversity Florida Museum of Natural History University of Florida Powell Hall, 3215 Hull Road Gainesville, FL 32611-2710 USA Tel: 352.273.2018 Fax: 352.392.0479 Email: kawahara@flmnh.ufl.edu http://www.flmnh.ufl.edu/-mcguire/kawahara/ kawahara@flmnh.ufl.edu

UHawaii Hilo ResTech

Regular, Full-Time, RCUH Non-Civil Service position with the University of Hawaii at Hilo (UH Hilo), Tropical Conservation Biology and Environmental Sciences (TCBES), Centers for Research Excellence in Science and Technology (CREST) Program's Dynamic Interactions of Symbioses and Environment (DISE) sub-project, located in Hilo, Hawaii. Continuation of employment is dependent upon program/operational needs, satisfactory work performance, availability of funds, and compliance with applicable Federal/State laws.

MONTHLY SALARY: Commensurate with qualifications.

DUTIES: Prepares and analyzes genomic and transcriptomic data. Prepares and analyzes metabolomic and proteomics data. Prepares scientific manuscripts for publication. Advises faculty, graduate students, and undergraduate students in the analysis and management of genomic data on various local and University of Hawaii (UH) system data storage systems. Provides field and laboratory mentorship to TCBES Master's students and UH Hilo undergraduates. Collaborates with Principal Investigators (PIs) on technical writing to include annual and/or interim reports, peer-reviewed

articles, and related works.

PRIMARY QUALIFICATIONS: EDUCATION/TRAINING: Master's Degree from an accredited college or university in Genetics, Bioinformatics, or related field. *EXPERIENCE: * Three to five (3-5) years of experience in conducting experiments in genomics, genetics, proteomics, and/or metabolomics. *ABIL/KNOW/SKILLS:* amiliarity with software programs such as Trimmomatic, Trinity, Transdecoder, Trinotate, Remote Scanning Electron Microscopy (RSEM), JoinMap, and CLC Genomics Workbench, as well as genome, transcriptome, and protein databases. Ability to analyze genomic, transcriptomics, proteomics, and metabolomics data from Next-Gen sequencing technologies such as Ion-Torrent, 454 and Illumina. Excellent written and oral communications skills *POLICY AND/OR REGULATORY REQUIREMENTS: * As a condition of employment, employee will be subject to all applicable RCUH policies and procedures and, as applicable, subject to University of Hawaii's and/or business entity's policies and procedures. Violation of RCUH's, UH's, or business entity's policies and/or procedures or applicable State or Federal laws and/or regulations may lead to disciplinary action (including, but not limited to possible termination of employment, personal fines, civil and/or criminal penalties, etc.).

SECONDARY QUALIFICATIONS: PhD from an accredited college or university in Genomics, Bioinformatics, or related field. Demonstrated experience supervising/mentoring research students. Experience working in multi-investigator teams. Experience in successfully submitting peer reviewed articles in genomics, proteomics, transcriptomics, and/or bioinformatics for publication.

*INQUIRIES: * Misaki Takabayashi 932-7595 (Hawaii).

APPLICATION REQUIREMENTS: Please go to www.rcuh.com, click on 'Employment'; select 'Apply' and navigate to 'See Job Announcements and/or Apply for a Job.' You must submit the following documents online to be considered for the position: 1) Cover Letter, 2) Resume, 3) Salary History, 4) Supervisory References, 5) Copy of Degree(s)/Transcript(s)/Certificate(s). All online applications must be submitted/received by the closing date (11:59 P.M. Hawaii Standard Time/RCUH receipt time) as stated on the job posting. If you do not have access to our system and the closing date is imminent, you may send additional documents to rcuhhr@rcuh.com. If you have questions on the application process and/or need assistance, please call (808)956-8344.

EEO/AA Employer. Please apply before 04/04/2015

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://hilo.hawaii.edu/-depts/biology/ https://sites.google.com/a/hawaii.edu/-price-lab-at-university-of-hawaii/ Donald Price <donaldp@hawaii.edu>

UMelbourne 2 StatisticalGenomics

LECTURER IN STATISTICAL GENOMICS (UP TO 2 POSITIONS)

School of Mathematics and Statistics, Faculty of Science, The University of Melbourne, Australia

Salary: AUD$89,955 - AUD$106,817 p.a. plus 17% superannuation

The School of Mathematics and Statistics is seeking to expand its expertise in Statistical Genomics. In particular, the successful applicants will contribute to the research agenda of the school around Statistical Genomics which is under the broad leadership of Professor D Balding. Two appointments may be made to suitable candidates.

The successful applicants are expected to undertake methodological research and supervise research students in the development and application of cutting-edge statistical methods for applications in the life sciences, preferably in statistical genetics/genomics or related areas of computational biology. He/she should have a commitment to teaching and will be expected to teach statistics subjects to life sciences students, as well as to students of mathematics and statistics.

The University of Melbourne provides a wide range of opportunities for exciting research collaboration. The Parkville precinct has the greatest concentration of biological and medical research in Australia, and among the greatest internationally. The recent appointment of Prof David Balding to a joint position between Mathematics/Statistics and Biosciences and the establishment of a new Centre for Systems Genomics, expected to be fully operational by the end of 2015, form part of new initiatives to strengthen the involvement of statisticians in the advances being made in genomics and computational biology, that the successful applicant will have the opportunity to contribute to and benefit from. Several

new appointments have also strengthened the Mathematical and Computational Biology research group within the School, providing further opportunities for collaboration and cross-fertilisation of research ideas.

Employment Type: Up to two full-time (1.0 FTE) continuing positions available Enquiries only to: Professor David Balding Tel +61 3 8344 3730 Email david.balding@unimelb.edu.au Close date: 10 May 2015

For position information and to apply online go to http://-/hr.unimelb.edu.au/careers, go to 'Job Search and Job Alerts', click on the relevant option ('Current Staff' or 'Prospective Staff') and search under the job title or job number 0033578.

Lynne Pryor Advertising Officer Recruitment, Academic Promotion and Employee Separation Finance and Employee Services, University Services Level 1, Elizabeth Murdoch Building, University of Melbourne VIC 3010 Telephone +61 3 834 44397 Email advertising-hr@unimelb.edu.au

advertising-hr <advertising-hr@unimelb.edu.au>

UMelbourne 2 StatisticalGenomics 2

Apologies for previous send of this post which apparently was unreadable for some and so I am resending. These are not explicitly evolution-related posts but those with evolutionary interests and a strong math/stat background are welcome to apply:

—-

University of Melbourne, Australia, School of Maths & Stats, Faculty of Science. Two lectureships (continuing) in Statistical Genomics

Salary: $AU89,955 - $AU106,817 p.a. plus 17% superannuation

Depending on experience and interests, the appointees may be able to play a central role in our new interdisciplinary Centre for Systems Genomics which will open later this year, and the newly-formed Math & Comp Biology research group as well as the Stats group within Maths & Stats. An affiliation with the School of BioSciences is also possible. For further details please see position description document available at the link below.

http://jobs.staff.unimelb.edu.au/ci/en/job/885443/-lecturer-in-statistical-genomics-up-to-2-positions
Closing date is May 10, 2015.

David Balding Schools of BioSciences and Maths & Stats University of Melbourne

ph +613 8344 3730 internal 43730 mob +614 6652 0579

dbalding@unimelb.edu.au

https://sites.google.com/site/-baldingstatisticalgenetics/home
david.balding@unimelb.edu.au

UMississippi DirectorFieldStation

DIRECTOR THE UNIVERSITY OF MISSISSIPPI FIELD STATION

Applications for the position of Director of the University of Mississippi Field Station (UMFS) are invited. This is a half-time, non-faculty position. The successful applicant has the option to bring in additional salary from sponsored funding.

The applicant should be a recognized scientific leader with a strong background in research administration, including fiscal, personnel and scientific management. A Master of Science degree is required and may be in any discipline related to the mission of the program, which is to foster ecosystem stewardship by providing a natural laboratory and infrastructure for research, education and service, and by cultivating scientific information and understanding of upland watersheds in the lower Mississippi River Basin and similar habitats (http://baysprings.olemiss.edu/site/mission). Excellent communication skills are required, with experience related to ecosystem stewardship.

The Director is responsible for the administration and supervision of activities within the UMFS, including fiscal management and budgeting, strategic planning, establishment of research and operations policies, identification and allocation of resources for research support, and safeguarding and enhancing the research environment and reputation of the UMFS. The Director will foster interdisciplinary collaborations between scientists who may have an interest in conducting research at the UMFS and will be responsible for obtaining external funding in support of infrastructure and scientific, educational and outreach objectives.

Applications must include a letter of interest stating how the applicant meets the qualifications, a curriculum vitae, and the names, addresses, and phone numbers of three references (who will not be contacted until the

latter stages of the search). Evaluation of applications will begin immediately and continue until the position is filled. The desired appointment date is July 1, 2015, but is negotiable. Applications should be made online at: https://jobs.olemiss.edu Questions may be addressed to: Dr. Robin C. Buchannon, rcb@olemiss.edu

The University of Mississippi is an EOE/AA/Minorities/Females/Vet/Disability/Title VI/Title IX /504/ADA/ADEA employer.$B!I(B

William J. Resetarits, Jr. Professor of Biology and Henry L. and Grace Doherty Chair in Freshwater Research Department of Biology The University of Mississippi P.O. Box 1848 University, MS 38677-1848 Phone: (662) 915-5804 Fax: (662) 915-6554 http://www.olemiss.edu/resetaritslab wresetar <wresetar@olemiss.edu>

UNewBrunswick Fredericton Bioinformatics instructor

The University of New Brunswick (UNB) Biology Department is seeking a Bioinformatician at the Instructor level to support departmental research and to teach courses at the graduate and undergraduate levels. The position involves developing bioinformatic tools and designing strategies to facilitate handling and analysis of large datasets generated by NGS platforms (DNA-seq, RNA-seq), in addition to proteomic, metabolomic, and other high-throughput analyses. It is expected that the successful candidate will participate in projects with UNB Biology researchers that are focused on functional, evolutionary and environmental genomics. The selected candidate will provide support by generating and curating sequence databases, administrating bioinformatics software, and consulting with individual researchers to develop novel analytical approaches. The incumbent will offer bioinformatics courses and training workshops at undergraduate and graduate levels focused on programming, database management, processing of NGS datasets (e.g., sequence quality control, assembly) and downstream analysis (e.g., gene annotation, SNPs analysis, phylogenetic analysis). Opportunities are available to create synergies within the Department, the University, and the broader region (e.g., accessing ACEnet or other high performance computer resources).

This tenure track position is available beginning July 1, 2015. Applicants must have a Ph.D. in computational biology, life sciences, or a related discipline, and should have demonstrated, or the potential for, excellence in teaching. The candidate is expected to have experience handling large NGS datasets (e.g., gene expression data, complete genomic sequences) and knowledge of computer languages common to bioinformatics.

Applicants should send, in hard copy, a curriculum vitae, a teaching dossier (including teaching philosophy and prior teaching experience), a statement of research interests, and the names of three referees willing to provide letters of reference, to:

c/o Melanie Lawson, Department of BiologyâPO Box 4400âUniversity of New Brunswick Fredericton, NB, E3B 5A3 Canada

The deadline for applications is May 29, 2015.

All qualified candidates are encouraged to apply; however, Canadians and permanent residents will be given priority. Applicants should indicate current citizenship status.

THE UNIVERSITY OF NEW BRUNSWICK IS COMMITTED TO THE PRINCIPLE OF EMPLOYMENT EQUITY

This position is subject to budgetary approval

Jason Addison <ja.addison@gmail.com>

UNottingham TropicalBiol

Assistant Professor in Tropical Biology (permanent, full-time), School of Life Sciences, University of Nottingham, UK

Salary: £34,233 to £45,954 per annum.

Closing Date: Sunday 10 May 2015

Reference: MED072215

Website: http://jobs.nottingham.ac.uk/-Vacancy.aspx?id=3D4227&forced=3D1 Some context: We are interested in hearing from applicants with expertise in tropical environments from any area of what might loosely be called “organismal” biology, including ecology, conservation, evolutionary biology, environmental physiology and parasitology. The job is being created to coincide with the start of a new degree in Tropical Sciences, and the successful candidate will play a role in the organisation and delivery of that degree. However, it is a standard Research & Teaching post for a research-led UK university, with the successful candidate being expected to focus on establishing an

excellent independent research programme, whilst gradually developing a contribution to teaching and admin. Assistant Professor at Nottingham is equivalent to a traditional Lectureship in the UK.

Here is the formal job advert:

Applications are invited to the above role to lead and deliver individual and collaborative research and teaching in the area of Tropical Biology, and make a contribution to the direction of research programmes in the School of Life Sciences. Strong candidates will be considered from any area of Tropical Biology, but applications will be especially welcome from those working in tropical biodiversity, conservation and marine biology.

The role holder will be expected, where appropriate, to develop and win funding for innovative research programmes, and to make a significant contribution to their academic unit via leadership, administrative management and/or co-ordination of specific initiatives.

The role holder will play a significant role in the planning and organisation of the new Tropical Sciences degree programme. Their contribution to teaching will restricted at the start of the post, but in later years is likely to include contributions to residential field course(s) in Malaysia. The role holder is also likely to be required to visit the University of Nottingham campus in Malaysia for teaching, planning and administrative purposes.

Candidates must hold A PhD or equivalent in a relevant subject, have excellent oral and written communication skills, specialist knowledge in Tropical Biology and an excellent publication record, with a Higher Education teaching qualification or equivalent being desirable.

As part of the application process, please identify what you consider to be your best 4 papers to date.

This is a full-time permanent role available from 1 September 2015.

Informal enquiries may be addressed Prof Jan Bradley (jan.bradley@nottingham.ac.uk). Please note that applications sent directly to this Email address will not be accepted.

Tom.Reader@nottingham.ac.uk

UPorto 3yr Biodiversity

INVITED CHAIR IN BIODIVERSITY REN - BIODIVERSITY

Applications are open for an Invited Research Chair in Biodiversity to be hosted by CIBIO-InBIO (https://cibio.up.pt/) - Research Centre In Biodiversity and Genetic Resources-Research Network in Biodiversity and Evolutionary Biology, and by the University of Porto (http://sigarra.up.pt/up/en/-WEB_PAGE.INICIAL), sponsored by REN (http://-www.ren.pt/?culture=en-GB) - Redes Energéticas Nacionais and FCT (http://www.fct.pt/index.phtml.en) - Portuguese Foundation for Science and Technology.

CIBIO-InBIO is a young and highly dynamic research centre located near Porto, in Northern Portugal, which conducts world-class research in the fields of biodiversity and evolution. The Centre offers great opportunities for multidisciplinary research and hosts 18 research groups, which include over 160 PhD level researchers, and over 100 MSc and PhD students, from many different countries. The Centre has state of the art ecology and molecular laboratories and conducts research projects at a global scale. Besides CIBIO-InBIO, the University of Porto hosts several top-level research centres in the fields of environmental and life sciences, providing multiple opportunities for collaborative projects. CIBIO-InBIO offers a vibrant, multicultural and enthusiastic working atmosphere. In addition, the Northern region of Portugal provides rich cultural and outdoor activities and Porto is a world-heritage city and the capital of Port wine.

We seek a talented and outstanding scientist to conduct innovative research in the field of biodiversity, focusing particularly on the impact of the activities of REN. The successful candidate will have a background in biology and biodiversity, with at least five years of postdoctoral experience and a strong research record, including a significant list of relevant publications in peer reviewed journals, supervision of MSc and PhD students, and demonstrated ability to attract external research funding. S/he is expected to develop a top-level and independent research program, to establish solid collaborations, attract national and international funding, and contribute to graduate and undergraduate teaching.

The Invited Chair will be supported partly by REN

and partly by FCT and will have an initial duration of three years. The contract is equivalent to the position of Full Professor/Coordinating Researcher (gross annual salary ca. euro 65.000) and will be complemented with research money to cover costs with personnel, equipment and fieldwork.

Applications for this position will include a detailed CV, a research statement and a motivation letter, as well as the email contact of three referees. Applications will be reviewed immediately and will be open until the position is filled. There is no obligation to hire any of the candidates.

Applications should be sent to diretor@cibio.up.pt. We aim to ensure that no applicant receives less favorable consideration on the grounds of gender, marital status, age, nationality, ethnic origin or religious belief.

Applications are open from the 21st of April to the 21st of May 2015.

The selected applicant is expected to start in June 1st, 2015.

Informal enquiries can be made to diretor@cibio.up.pt.

Click here (http://www.eracareers.pt/opportunities/-index.aspx?task=global&jobId=59953) to see the advert in eracareers.

Maria JoÃ£o GuimarÃ£es Fonseca CIBIO - Centro de InvestigaçÃ£o em Biodiversidade e Recursos Genéticos/ InBIO Laboratório Associado, Universidade do Porto Campus Agrário de VairÃ£o Rua Padre Armando Quintas 4485-661 VairÃ£o Portugal

t: +351 252 660 411 Ext. 285 f: +351 252 661 780

e: divulgacao@cibio.up.pt w: http://cibio.up.pt f: https://www.facebook.com/cibio.inbio CIBIO DivulgaçÃ£o

UTubingen PlantConservation

The Plant Ecology Group at the University of Tübingen is searching for a

*Senior Research Assistant in Plant Ecology**.*

The position is equivalent to a Lecturer or Assistant Professor position (German pay scale E13 TV-L). It is not tenured but scheduled for an initial period of three years with an option for extension. The starting date is negotiable, but an ideal starting time is Sept. 1st, 2015.

The candidate is expected to develop an own independent research portfolio that is compatible with the general research interests of the Plant Ecology Group. In addition, the position includes teaching (four hours per week during semester time) on an undergraduate and graduate level in the field of Plant Ecology, Conservation Biology, Botany and/or Evolution.

We are searching for an ecologist with excellent theoretical and practical knowledge in the field of plant ecology and a strongly conceptual approach to science. The focus of his/her interests and skills should be on one or more of the following fields: plant population ecology, community ecology, biotic interactions, global change biology, invasion biology, theoretical ecology, or ecological modeling.

The candidate should hold a Ph.D. in ecology or a related field and should ideally have some Post-Doctoral experience. Furthermore, the candidate should have excellent skills in designing and analysing ecological experiments. Botanical knowledge, teaching experience and some knowledge of German is welcome but no must.

The University seeks to raise the number of women in research and teaching and therefore urges qualified women academics to apply for these positions.

Disabled candidates will be given preference over other equally qualified applicants.

Please send your application including a letter of interest, a teaching and research concept, CV and a list of publications to *Prof. Dr. Katja Tielbörger (vegetation@bot.uni-tuebingen.de) *to whom also inquiries should be addressed. Please also make sure that two letters of reference will be sent to the above address independently.

The deadline for applications is June 15th, 2015, or until the position is filled.

<Ennius et sapines et fortis et alter Homerus, ut critici dicunt, leviter curare videtur, quo promissa cadant et somnia Pythagorea

"\"Tielbörger, Katja\"" <katja.tielboerger@uni-tuebingen.de>

UVermont LabTech EvolPhys

Lab Technician Ecological and Evolutionary Physiology

The Lockwood Lab in the Department of Biology at the University of Vermont is looking to hire a motivated and skilled individual to work as a technician in our new research lab. We study how the environment shapes the evolution and biogeography of populations and species. In particular, we are interested in how populations will respond to changing climate conditions. We integrate approaches in genetics, genomics, biochemistry, and developmental biology to connect molecular processes to whole-organism phenotypes in an ecological context.

The technician will assist the PI in managing the lab and conducting research, with the opportunity for co-authorship on scientific publications. The lab offers an exciting, integrative and supportive work environment, with opportunities to be involved in a wide range of research projects.

Minimum qualifications:

- A bachelor's degree in a related field or an equivalent combination of education and relevant experience in physiology, evolution, ecology, molecular biology, and/or developmental biology - Experience preparing reagents, gel electrophoresis, PCR, western blot, enzyme kinetics, and immunohistochemistry - Exceptional organizational skills and ability to accomplish tasks independently - Ability to master detailed laboratory procedures - Excellent communication and computer skills

Preferred qualifications:

- Experience with maintenance of Drosophila stocks - Experience with husbandry of marine organisms - Experience with confocal fluorescence microscopy - Strong background in physiology, ecology, evolutionary biology, and/or genetics

To apply, please visit https://www.uvmjobs.com/- and search for Posting # S206PO. Please submit a CV/resume, contact information for three (3) references, and a cover letter that highlights your previous laboratory experience. Review of applicants will begin immediately and continue until position is filled. The position will ideally begin in June. This is a full-time position, initially appointed for a period of 12 months with benefits. The position can be extended for at least one year depending on performance.

For more information about the Lockwood Lab visit http://www.uvm.edu/~bllockwo/. Please contact Brent Lockwood (bllockwo@uvm.edu) if you have any questions.

Brent L. Lockwood Assistant Professor Department of Biology University of Vermont Marsh Life Sciences Building, Rm 203 109 Carrigan Drive Burlington, VT 05405

bllockwo@uvm.edu

VirginiaTech LabTech

The McGlothlin lab at Virginia Tech is looking for a laboratory technician to assist in research on the evolutionary genetics of lizards and snakes using molecular and classical quantitative genetic methods. The successful candidate will supervise the maintenance and upkeep of a safe laboratory environment; maintain a large laboratory breeding colony of Anolis lizards; supervise a group of undergraduate animal care technicians; and maintain the laboratory records of research, stocks, inventory, purchasing, and personnel.

The ideal candidate will have demonstrated ability to effectively manage time, organize data, and communicate effectively; ability to interact with professional conduct; curiosity and enthusiasm for science; working or educational experience in molecular biology (e.g. PCR); and experience caring for captive animals. Preference will be given to applications with a bachelor's degree in biology or a related discipline and experience with reptile husbandry.

For more details or to apply, visit https://-listings.jobs.vt.edu/postings/56241. Inquiries should be directed to Dr. Joel McGlothlin at joelmcg@vt.edu.

Joel W. McGlothlin Virginia Tech, Dept. of Biological Sciences Derring Hall 2125, 1405 Perry St. Blacksburg, VA 24061 http://www.faculty.biol.vt.edu/mcglothlin Email: joelmcg@vt.edu Phone: (540) 231-0046 Office: Derring Hall 4002

joelmcg@vt.edu

Other

AGA Award Recipients

The American Genetic Association (AGA) is proud to announce the recipients of the 2015 Ecological, Evolutionary and Conservation Genomics (EECG) Awards, an annual research grant for student or postdoctoral research. In this inaugural year, we were fortunate to have a large pool of excellent applications spanning genomics questions and approaches. We thank all of the applicants and congratulate the seven awardees on their fine proposals!

William Gammerdinger (University of Maryland) – The emergence and decay of sex chromosomes in Tilapia

Evelyn Lise Jensen (University of British Columbia) – Looking through the bottleneck: genomic analysis of historic and contemporary patterns of genetic variation in an endangered Galápagos tortoise (Chelonoidis ephippium)

Cathleen Jewell (Indiana University) – Disentangling the genetic basis of self-incompatibility and unilateral incompatibility in the wild tomato clade (Solanum sect. Lycopersicon)

Piotr Lukasik (University of Montana) – Intergeneration transmission of a complex symbiotic consortium

Daniel Portik (University of California - Berkeley) – The evolution of sexual dichromatism in hyperoliid frogs

Katherine Solari (Stanford University) – High-elevation genomics: How species in the genus Ochotona have evolved to live with limited oxygen

Michael White (Fred Hutchinson Cancer Center) – Sequencing the threespine stickleback Y chromosome: a vertebrate model system for sex chromosome evolution

Anjanette Bakerâ Managing Editor, Journal of Heredity http://jhered.oxfordjournals.org/ Manager,â American Genetic Association

http://www.theaga.org/â 2030 SE Marine Science Dr Newport, OR 97366 https://-www.facebook.com/AmericanGeneticAssociation AGAJOH@oregonstate.edu

ASN Awards RegionalMeetings

ASN Awards for Support of Regional Meetings in Ecology, Evolution and Behavior

The American Society of Naturalists solicits proposals from organizers of regional meetings in the fields of ecology, evolution and behavior. The purpose of these small awards is to promote increased participation in regional meetings that fall along the research interests supported by the ASN and to use this support as a way of recruiting new membership to ASN. The awards typically provide subsidized registration for ASN members at these regional meetings. Organizers of regional meetings should submit a one-page proposal describing the research focus of the meeting for which funds are requested as well as details of the meeting such as anticipated number of participants, meeting venue and dates. Please also include a brief budget justifying the amount requested. We anticipate funding 3-5 awards and award amounts are usually between $1000-$1500.

Please send proposals to the ASN Regional Society Liaison Committee Chair Renee Duckworth at rad3@email.arizona.edu by May 10th.

rad3@email.arizona.edu

Australia VolFieldAssist FairyWrens

Volunteer field assistant

We are looking for a motivated and hardworking individual to assist us with fieldwork on a study of ecoimmunology and sperm-ejaculate interactions in the red-backed fairy-wren near Brisbane (Queensland) Australia during the Austral Spring-Summer.

Time period: mid-September to mid-December 2015 (3 months).

Duties: catching birds using mist nets, regular monitoring of colour-banded birds during the breeding season to assess breeding stage and monitor nesting activity, assistance with sample collection (e.g. blood, sperm), data entry and proofing, and general assistance with gear and logistics. We will work 6 days a week and workdays will be long and require an early start.

Qualifications: Enthusiasm, self-motivation and a strong work ethic are essential. The working language is English, thus good knowledge of English is a requirement. Must be early riser, willing to be physically active during the working period, tolerant to heat, and enjoy basic shared living conditions. Applicants with previous bird experience (e.g. monitoring colour-banded birds, mist netting) are preferred, but highly motivated individuals lacking experience will also be considered. Outdoor experience will also be valued. Finally, a driving license is highly preferential. This is a volunteer position, but accommodation and food will be provided when at the research site. The assistant provides own cost of travelling to/from the site.

Applications should contain a cover letter highlighting previous relevant experience, a short CV and the names and contact information for 2-3 referees that are familiar with fieldwork skills. For further enquiries or to submit applications send an e-mail to Diana Carneiro (diana.carneiro@nhm.uio.no). Review of applications will begin 15th May 2015, and continue until the position is filled.

Diana Carneiro

PhD research fellow Natural History Museum University of Oslo Postboks 1172, Blindern 0318 Oslo Norway

Personal page: http://www.nhm.uio.no/english/about/-organization/research-collections/people/decarnei/ di-

ana.carneiro@nhm.uio.no

Funding research

Do scientists pay out-of-pocket to be researchers?

Dear EvolDir Readers,

Most of science is funded by research grants or other financial contributions that support science. However, sometimes, researchers may pay out-of-pocket for expenses that are never reimbursed. We are investigating whether this practice (using personal funds to pay for research expenses) is commonplace. If so, what types of things do we spend our personal funds on?

If you are an active scientist over the age of 18, please consider taking our survey. We hope that by collecting data on this topic, we will start a conversation on this important issue. Our objective is to analyze and present these results within a scientific publication.

The survey link, as well as information on informed consent, is here: http://goo.gl/forms/ZAtzAqGRMw

We appreciate all participants, and encourage you to circulate this survey within your professional networks.

All data will be completely anonymous, and we do not ask any questions that will enable your responses to be personally identifiable.

If you have any questions for us, please do not hesitate to contact Dr. Edward Hind or Dr. Brett Favaro at scispends@gmail.com

Best regards

Dr. Edward Hind Dr. Brett Favaro

e.hind@outlook.com e.hind@outlook.com

Hintelmann award

17th R. J. H. Hintelmann Scientific Award for Zoological Systematics at Zoological State Collection Munich www.zsm.mwn.de established by Mrs. Elisabeth Hintelmann in memory of her husband Robert J. H. Hintelmann

For outstanding achievements in zoological systematics,

phylogenetics, faunistics or zoogeography and evolutionary biology studying animals, the association Freunde der Zoologischen Staatssammlung M[1]nchen e.V.± has the pleasure to announce the 17th R.J.H. Hintelmann Scientific Award. The prize has the value of Euro 5,000.- and its target group are young post-graduate scientists. The price is being awarded annually since the year 2000: www.zsm.mwn.de/events/wiss_preise.htm . This prize is awarded not only in appreciation of the previous scientific performance of the applicant, but the prize-winner will also be given the opportunity to continue his/her research work in coordination with the Zoologische Staatssammlung M[1]nchen (ZSM). This may be carried out either by visiting the ZSM or by being provided with ZSM materials for work elsewhere. The 17th R.J.H. Hintelmann Scientific Award will be presented on January 15, 2016 during a ceremony at the ZSM in Munich, where the prize-winner has to provide a short lecture on his/her research topics.

Nominations may name any young post-graduate scientist, not yet in a permanent position, with outstanding performance in one or more of the fields mentioned above. The pertaining proposal or application should provide an account of the candidates scientific achievement. In addition, curriculum vitae, list of publications, and selected reprints (not more than five) have to be submitted (please submit in printed as well as digital form, e.g. on a CD-Rom). The submitted documents remain with the awarding association.

Candidates may be nominated by any zoologist; self-nomination and repetitive application over several years are also possible. The prize-holder is elected on absolute majority basis by a jury appointed by the executive committee of the Freunde der Zoologischen Staatssammlung e.V.± Depending on the quality of applications the association reserves the right to withhold the award in any given year.

Please send applications or nominations until July 25, 2015 to the following address:

Freunde der Zoologischen Staatssammlung M[1]nchen e.V. R. J. H. Hintelmann-Wissenschaftspreis M[1]nchhausenstrasse 21 D-81247 M[1]nchen, Germany

For further information please contact: Michael Balke under kaefer@zsm.mwn.de

And see here: http://www.zsm.mwn.de/events/-wiss_preise.htm Munich, April 2015

Dr Michael Balke Zoologische Staatssammlung M[1]nchhausenstrasse 21 D-81247 M[1]nchen

kaefer@zsm.mwn.de http://zsm-entomology.de/-wiki/Coleoptera https://sites.google.com/-site/zsmaquaticinsectlab/ Michael Balke <michael_balke@yahoo.de>

JehovahsWitness Responds

Jehovah's Witnesses Respond

Dear EvolDir,

In response to my letter (EvolDir, January 17, 2015) about the misquotation of my work on evolution by Jehovah's Witnesses (JWs) in their magazine Awake!, making me appear as if I support creationist view of the origin of life, Watch Tower Bible and Tract Society of Pennsylvania, the corporation that runs the magazine, has written to inform me that they have removed the quote from the magazine as it appears on their website and that the quote will not appear in copies of the magazine that might be printed in the future.

After my letter appeared on EvolDir I received a large number of enquiries from ex-Jehovah's Witnesses alerting me about the misquotation. Ex-JWs have made use of my letter on their websites and internet talk shows to rebut JWs' stand on creation vs. evolution.

Rama Singh

Rama S Singh <singh@mcmaster.ca>

NationalGeographic BiodiversityProject

Short version:

Join a global snapshot of biodiversity for National Geographic's Great Nature Project

Our goal is to record as many species as possible from all over the world, and we need your help to put biodiversity on the map.

http://greatnatureproject.org/events/global-snapshot-2015/ —

Long version:

Get ready for a global snapshot of biodiversity May 15-25 with National Geographic!

>From May 15 to 25, our goal is to motivate people to

explore biodiversity wherever they are and document as many species as possible. Everything observed between May 15 and 25 and uploaded to greatnatureproject.org or iNaturalist.org will automatically be counted for the global snapshot.

How to participate: -Go outside and snap photos of plants, fungi, and animals. -Upload your photos on greatnatureproject.org, iNaturalist.org, or using the iNaturalist mobile app (which is versioned for Spanish, Portuguese, French, Italian, Japanese, and Swedish). -Include information about where and when you saw it. -Identify what you saw! Just find the taxonomic group that corresponds to the extent of your knowledge. Sometimes observations start at the level of 'flowering plant' or 'fungus'– that's ok. You can also get help from other people. -Help other members of the community identify what they saw! You can suggest identifications for observations made by other people and make comments.

What happens to observations submitted to the Great Nature Project? The Great Nature Project was not created to answer a specific question. Rather, your photo-documented observations contribute to a database of records that scientists, decision makers, and even you can use to answer questions about where and when different species occur. Observations with identification agreement are shared with the Global Biodiversity Information Facility (GBIF). To download data submitted to the Great Nature Project, please use the download tools from iNaturalist. To see examples of the kind of research that often uses observations from iNaturalist, check out GBIF.

Help spread the word! We created a toolkit of materials including flyers, banners, and postcards, which you can share with any individuals or organizations who you think might be interested in participating. Please contact us at greatnatureproject@ngs.org if you have trouble accessing the materials on Google Drive. https://drive.google.com/-folderview?idzV0qT0Q6H4leWQxTkc4bzkyT0k&usp=-sharing Ways to engage: -Create an account for yourself and try it out. -Spread the word via email. -Print a flyer from the toolkit and post it in an office, information booth, or trailhead. The flyer was created especially with parks and nature centers in mind! -Host an event. You could organize a photo walk, use the assets in the toolkit to help promote it, and show people how to participate in the Great Nature Project. You could do a bioblitz to inventory species in a yard or park (find out more about bioblitzes at natgeoed.org/bioblitz). iNaturalist has many useful tools to keep track of observations within certain boundaries such as parks (learn more at inaturalist.org/projects).

If you want to receive updates in the future about the Great Nature Project, please create an account. http://greatnatureproject.org/register/ Sincerely, Carrie Seltzer, Ph.D., Julie Brown, Mary Ford, and the rest of National Geographic's Great Nature Project team National Geographic Society 1145 17th Street, NW Washington, DC 20036-4688 USA 202-862-8239

"Seltzer, Carrie" <cseltzer@ngs.org>

OrthoMaM databasev9 update

Dear Evoldir members,

We are pleased to announce the release of OrthoMaM version 9: a new update of our database of mammalian orthologous single-copy nuclear markers (exons and CDS).

It can be browsed and queried at:

http://www.orthomam.univ-montp2.fr/ This new version 9 is based on EnsEMBL release v79 (April 2015) and now includes 7,349 exons and 14,526 CDS alignments for up to 43 mammalian species.

New features in this realeases includes:

- Requests on 43 species (based on EnsEMBL v79, March 2015). - New species: Papio_anubis, Chlorocebus_sabaeus, Ovis_aries. - Exon detection has been improved. - Raw alignements have been computed with MAFFT. - Alignments which contain sequences leading to very high branch lengths in the corresponding ML phylograms were not excluded

If you use OrthoMaM for your research please cite:

Douzery, E. J., Scornavacca, C., Romiguier, J., Belkhir, K., Galtier, N., Delsuc, F., & Ranwez, V. (2014). OrthoMaM v8: a database of orthologous exons and coding sequences for comparative genomics in mammals. Molecular Biology and Evolution 31:1923-1928.

or

Ranwez, V., Delsuc, F., Ranwez, S., Belkhir, K., Tilak, M. K., & Douzery, E. J. (2007). OrthoMaM: a database of orthologous genomic markers for placental mammal phylogenetics. BMC Evolutionary Biology 7:241.

We hope this will be of use to members of the evolutionary community.

Frederic Delsuc and co-authors

–

Frédéric DELSUC Institut des Sciences de l'Evolution UMR5554-CNRS-IRD-EPHE Université de Montpellier Place Eugène Bataillon 34095 Montpellier Cedex 05 France Tel: (+33) 4 67 14 39 64 FAX: (+33) 4 67 14 36 10 Email: Frederic.Delsuc@univ-montp2.fr

Frederic.Delsuc@univ-montp2.fr

Phyloseminar DanielPark Apr22

Next on http://phyloseminar.org/ :

Ebola virus epidemiology, transmission, and viral evolution from four months of sequencing in Sierra Leone (Overview) Daniel Park Broad Institute Tuesday, May 12, 2015, 9:00 AM PDT

Adding to the work reported in Gire, et al (Science, 2014) which sequenced Ebola viruses from the first three weeks of the epidemic in Sierra Leone, we here present analyses of 150 additional viral genomes sampled from EVD cases at Kenema Government Hospital between the months of June to September 2014. We describe continued evidence for sustained human-to-human transmission with no additional zoonotic events, and preliminary results concerning new lineages from Guinea. We also characterize the epidemiological history of the limited number of exported viruses from the country. We also observe a slowing of the viral substitution rate over the course of the outbreak, consistent with the increased effect of purifying selection as the outbreak continues over time. These findings allow a closer view of viral evolution during its extended time in human populations and provide critical insights into the movement of the virus through the region.

This is the first talk in a pair of talks from collaborators Daniel Park and Gytis Dudas concerning their analysis of Ebola virus sequences.

Frederick "Erick" Matsen, Assistant Member Fred Hutchinson Cancer Research Center http://matsen.fredhutch.org/ matsen@fredhutch.org

Transport blood samples answers

Dear all, I would like to thank all of you in the evoldir community for your very helpful replies to my question on sending blood samples in ethanol internationally. We are still deciding exactly what to do, but I had some very good suggestions to send the blood+ethanol by courier (or even normal post) without the dry ice / ice packs, which would mean the packaging would be much smaller and lighter and hence cheaper. Provided IATA guidelines are followed*, some people had good experience taking samples as checked luggage, however it was pointed out to me that in the end the pilot has a final decision of whether to accept the luggage, even if all of the paperwork is in order (which could end up with quite a stressful experience at the airport!). Others had suggestions for alternative storage solutions including lysis buffer and RNAlater. And I had many people emphasising the importance of checking the regulations and ensuring that all the paperwork at both ends of the journey is prepared thoroughly. I have compiled all the replies below, following a copy of my initial message. Thank you again for your excellent ideas! Very best wishes, Anna asanture@gmail.com

*from my understanding, in my case where we have eppendorfs of ~1mL of blood, these should be put in a hard container (i.e. an eppendorf box), sealed in a plastic bag, an absorbant material wrapped around and then sealed inside another plastic bag, and then up to 10 of these boxes (i.e. <1L total ethanol) can be packaged together to form one package for either posting via airmail or checking in as checked luggage. Airline's own guidelines may differ.

*Original email: * I would very much appreciate some pointers for how to transport blood samples stored in ethanol internationally (from UK to New Zealand). I had been intending to bring a chilly bin full of samples on dry ice* / ice packs on a flight from the UK to New Zealand with me, however I have recently become aware that many (all?) airlines classify ethanol as a dangerous good** and restrict the total volume that can be checked in. According to FAA guidelines (which I'm not sure apply globally, but Air New Zealand's guidelines seem very similar) I think you are not allowed more than 1L of total ethanol.

>From what I have read, the alternative is to send as a dangerous good with one of the international carriers

e.g. Fedex, however this is likely to be prohibitively expensive. An online quote suggests the chilly bin we have in mind would cost around NZD $2,500 to transport, and this is before I've even mentioned the 'hazardous' contents.

Any help would be very much appreciated!

With many thanks, Anna Santure University of Auckland, New Zealand

*also a dangerous good... **apparently litres of duty free gin, vodka, wine and rum are not dangerous goods though!

Responses - thank you all again! # I can only tell you something you probably won't like so much: my experience is to best leave it to a carrier, which is indeed expensive. I use World Courier a lot, much more reliable than FedEx or DHL etc. they are known to loose a lot of their packages, I would not risk that. Dry ice/ ice packs are usually not permitted on flights and I can only say the very best about World Courier, they are fast and professional, which you can see in their prices :(contact their office and ask about prices, but you can expect about double than FedEx. I guess it really depends on how valuable those samples are, but they know how to handle transport and customs.

I've flown with ethanol samples several times before. The easiest thing to do is to pour off as much of the ethanol as possible before transporting them and then top them up once you arrive at your destination. Of course, this is a lot easier if the sample is tissue - I'm not quite sure how it would work with blood. Perhaps you could spin them down and pour the top ethanol layer off and then just transport them as blood samples'?

About your question, depending on how serious the checks you think will be and how important/unique are the samples, you could decide to just put them in your checked luggage (maybe paying also for an extra luggage) and cross your fingers. In case the material you're transporting needs some sort of permit to be exported from the UK or imported in NZ, make sure you have one so that in case of problems you can always show them the documents. Otherwise, you can always have some sort of official letter. I doubt they'll be willing to stick their face in blood samples to check if they're in ethanol. At that point they'll be more concerned if you're bringing some sort of bio-hazard rather than the ethanol. So the idea is: you put them in your luggage and then you have some official document stating that those samples are safe and you're allowed to transport them. I know this is not exactly sticking to the rules but I know some people who have done this in inter-continental flights.

— / —

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

UMelbourne VolFieldAssist AvianPersonality

Volunteer field assistants

We are looking for field assistants to help monitor a colour-banded population of superb fairy-wrens near Melbourne, Australia for a study on animal personalities. Time periods: Four-month minimum, commencing late-August, late-September, or Dec/Jan. Duties include catching birds for personality testing before and after the breeding season (Oct-Jan), and regular censusing of colour-banded birds during the breeding season, searching for and monitoring nests, behavioural observations, video analysis, and data proofing. Working days are long, with early starts six days a week. Enthusiasm, self-motivation, and a strong work ethic are a must. The study is based at Serendip Sanctuary, a small reserve on the outskirts of Melbourne. Qualifications: experience monitoring colour-banded birds, nest-searching, and mist-netting. Must also be early riser, physically fit, able to work in extreme weather conditions, and enjoy basic shared living conditions. Onsite accommodation in a house with shared dorm-style room is provided, but assistants cover travel to the site and their own food costs. The project will reimburse up to AUD$750/mo towards receipted food and travel expenses. For more information contact: Michelle Hall (hall.mATunimelb.edu.au). To apply, please email a letter outlining previous relevant field research experience, and a resume including names and contact information for 3 referees that are familiar with your mist-netting and/or nest-searching experience.

Dr Michelle L Hall Research Fellow School of BioSciences Building 147 (Old Zoology) University of Melbourne Melbourne, Vic, 3010 Australia Email: hall.mATunimelb.edu.au Phone: 0431 515271 Web: http://michellelhall.wordpress.com/ Michelle Louise Hall <hall.m@unimelb.edu.au>

Using SPAGEDI software

Hi all,

I am trying to use SPAGEDI v 1.5 to compare Rst and Fst statistics by pRst. However the manual is not helpful on how to compute these calculations. Would someone know what steps to follow?

Thanks and best regards

Michael J. Jowers

michael jowers <michaeljowers@hotmail.com>

PostDocs

AuburnU EvolutionaryPhysiology

Postdoctoral Fellow in Evolutionary Physiology at Auburn University

The Hood lab at Auburn University is looking to hire a post-doctoral scholar to evaluate the role of mitochondria in tradeoffs between reproduction and longevity in the house mouse. A focus of the project will be to evaluate mtDNA mutation rates using high throughput sequencing approaches. A strong background in genomics, physiology, and life history theory and excellent communication, organization, and leadership skills are required. The individual will be expected to assist with training and mentoring graduate students and undergraduates, develop synergistic projects, write grants, and produce first authored papers and contribute to co-authored papers. This is a one-year position with the possibility of renewal pending satisfactory work.

Dr. Wendy Hood operates the laboratory. Information about the lab and abstracts for funded projects can be found at: thehoodlaboratory.com.

Applicants must have a Ph.D. in an appropriate field. The candidate selected for this position must be able to meet eligibility requirements to work in the United States at the time the appointment is scheduled to begin and continue working legally for the proposed term of employment. Women and minorities are strongly encouraged to apply.

This announcement is informal in nature and candidates of interest will be asked to submit a formal application for complete consideration after initial screening.

If interest please send a CV and a statement of interest to Wendy Hood at wrhood@auburn.edu (please note our mail system is limited to 25Mb messages). Receipt of application will be confirmed within 3 days. Review of applications will begin April 20, 2015 and continue until a suitable applicant is found.

Wendy R Hood, PhD Assistant Professor, Auburn University Department of Biological Sciences Auburn, AL 36849 334-844-7437

Email: wrhood@auburn.edu Web: thehoodlaboratory.com

Wendy Hood <wrh0001@auburn.edu>

BRC Hungary ComparativeGenomics

POSTDOC POSITION IN COMPARATIVE GENOMICS AND BIOINFORMATICS

Applications are invited for a bioinformatics postdoctoral position in âthe research group of Laszlo G Nagy (Synthetic and Systems Biology Unit, Biological Research Center, Szeged, Hungary). We are now looking to hire new people with a background in bioinformatics, phylogenetics or fungal evolution. The Lab offers excellent training opportunities in fungal comparative genomics, cutting edge projects, abundant funding, an inspiring atmosphere and extensive collaborator network.

The primary focus of the lab is understanding the general principles of convergent evolution and fungal multicellularity through comparative genomics, transcriptomics and single-cell transcriptomics of multicellular fruiting bodies in Basidiomycetes. Fruiting bodies represent some of the most complex morphological structures found in fungi, yet, their developmental and evolutionary origins are hardly known. Complex fruiting bodies have evolved independently several times in the Basidiomycetes, offering an excellent model system to study the genetic mechanisms of convergent evolution.

The successful Candidate has: - PhD in bioinformatics, evolutionary biology, mycology or other relevant field - Experience in genomics, Perl and/or Python scripting - Good team player traits - Experience in working with fungi is a plus

Contact and application - The starting date of the project is September 2015. The position will last for one year with the possibility of extension up to 4 years. If interested, send a motivation letter along with your CV to Laszlo Nagy (lnagy@brc.hu).

– Dr. Laszlo Nagy Fungal Evolution & Genomics Lab Synthetic and Systems Biology Unit, Institute of Bio-

chemistry Biological Research Center, HAS Hungary

http://group.szbk.u-szeged.hu/sysbiol/nagy-laszlo-lab-index.html lnagy@brc.hu

ColoradoStateU EvolutionInfectiousDisease

Postdoctoral Fellowship: Ecology and Evolution of Infectious Disease

We are seeking to recruit a highly motivated postdoctoral researcher to work on an NSF funded Ecology and Evolution of Infectious Diseases grant, studying the impacts of landscape structure and managementon disease transmission in Puma concolor. This exciting project will be based in the laboratory of Dr. Sue VandeWoude at Colorado State University, and involves close collaboration with a diverse interdisciplinary team. We are seeking an individual with experience in analysis of pathogen evolution and a communication skill set conducive to assist with management of a large interdisciplinary program. This project spans disciplines of host and pathogen molecular evolution to modeling analysis that can inform wildlife management practices. Experience in writing technical or scientific reports and manuscripts, excellent communication skills, and ability to interact productively with a diverse group of collaborators is required. Technical expertise in evolutionary biology including viral detection, viral genomic determination and analysis, pathogen phylogenetic analysis, and disease ecology are skill sets highly relevant to this position. Expertise in database management, genomics, familiarity with next generation sequencing technologies, biostatistical and bioinformatics analysis is also desirable.

The successful applicant will conduct guided but independent laboratory-based research leading to first author publications. The position will provide mentorship to students and technical staff, develop annual technical reports, coordinate sample receipt, processing and archiving, and manage a large and complex sample database. The ideal candidate will demonstrate initiative, creativity, and will have excellent organizational skills; we also seek candidates with enthusiasm who work well as part of a team as well as independently.

The position is funded with two years with potential to extend for an additional year. Salary is commensurate with experience level. The position start date is flexible but we hope to employ someone by August 15, 2015. Application review will begin after April 19, 2015 and continue until the position is filled. For full job description and TO APPLY please see http://-jobs.colostate.edu/postings/14500

Application materials include: 1. A 1-2 page cover letter outlining how the applicant[1]s professional background and experience match the required and preferred qualifications for the position. 2. A CV/resume including current contact information. 3. Three professional references that include name, telephone numbers and e-mail addresses, or copies of letters sent from referees.

CSU is an EO/EA/AA employer and conducts background checks on all final candidates.

“VandeWoude,Susan” <Sue.Vandewoude@ColoState.EDU>

ColoradoStateU MountainLion

POSTDOC POSITION IN MOUNTAIN LION LANDSCAPE GENOMICS AND DISEASE ECOLOGY

We are seeking to recruit a highly motivated postdoctoral researcher to work on an NSF funded Ecology of Infectious Diseases grant, focusing on the impacts of landscape structure and management on disease transmission in Puma concolor. This postdoctoral position will be based in the laboratory of W. Chris Funk at Colorado State University, and involve close collaboration with other PIs (Sue VandeWoude and Kevin Crooks at CSU, Meggan Craft at the University of Minnesota, and Scott Carver at the University of Tasmania; http://www.nsf.gov/awardsearch/-showAward?AWD_ID=1413925&HistoricalAwards=-false).

The main duty of this postdoc will be to conduct landscape genomics analysis of mountain lions from multiple study regions to test the effects of landscape features on gene flow. In addition, this postdoc will work with another postdoc and the PIs to integrate these landscape genomics results into network modelling to test the effects of host movement on disease dynamics. There will also be opportunities to address additional questions regarding the fitness effects of genetic variation using this dataset.

Required qualifications and skills: We are seeking an individual with expertise in landscape genomics, excellent writing ability, and strong interpersonal skills. The candidate should have experience in the collection of NGS data (especially RAD seq library prep), bioinformatics

pipelines to assemble Illumina reads and call SNPs, GIS, and landscape genetic analysis. The candidate should also have a strong publication record, excellent communication skills, and be up-to-date on the latest advances in population genomics and landscape genetics.

Start date and duration: The position start date is flexible but we hope to employ someone by August 15, 2015. Funding is available for 2 years pending satisfactory performance with potential for an additional year depending upon available funding and project direction.

Applications: Send a 1-page letter describing why you are interested in this job and your relevant experience; your CV; and the names and contact information for three references to Chris Funk at Chris.Funk@colostate.edu. Review of applications will start May 10th and will continue until a strong candidate is hired.

Salary: $40,000-$44,000 the first year depending on experience.

Colorado State University does not discriminate on the basis of race, age, color, religion, national origin or ancestry, sex, gender, disability, veteran status, genetic information, sexual orientation, or gender identity or expression. Colorado State University is an equal opportunity/equal access/affirmative action employer fully committed to achieving a diverse workforce and complies with all Federal and Colorado State laws, regulations and executive orders regarding non-discrimination and affirmative action. The Office of Equal Opportunity is located in 101 Student Services.

Colorado State University is committed to providing a safe and productive learning and living community. To achieve that goal, we conduct background investigations for all final candidates being considered for employment. Background checks may include, but are not limited to, criminal history, national sex offender search and motor vehicle history.

W. Chris Funk, Associate Professor Department of Biology Colorado State University 1878 Campus Delivery Fort Collins, CO 80523-1878 Tel: 970-491-3289 Fax: 970-491-0649 E-mail: Chris.Funk at colostate.edu URL: http://wp.natsci.colostate.edu/-funklab/ Chris.Funk@colostate.edu

CornellU MetabolicCooperation

"Job: Evolution of Metabolic Cooperation in Insect-Microbial Symbiosis"

A postdoctoral position in animal-microbial interactions is available immediately in the laboratory of Dr Angela Douglas (Cornell University, USA), to join a research team investigating the evolution of metabolite exchange between symbiotic bacteria and their animal hosts. The goals are to determine (1) how the coevolved metabolic networks of the interacting organisms are integrated, including network properties that may increase metabolic cooperation and reduce conflict among the partners; and (2) the contribution of systems-level variation in network properties to the functional variation among symbioses involving bacteria with genetically equivalent metabolic capabilities. The research involves metabolic modeling, including metabolic network reconstruction and flux balance analysis, together with genome/transcriptome sequencing and metabolite analysis in the context of coevolved symbioses; prior experience of working with genomes is essential, and experience of metabolic modeling and/or symbiotic associations is strongly preferred. The successful candidates will join an integrated team of researchers committed to understand the evolution and function of animal-bacterial symbioses (http://-www.angeladouglaslab.com/).

Applications from candidates with a PhD in a biological discipline should be sent by email to Angela Douglas (aes326@cornell.edu). Please include a CV, statement of research, and details of three referees. The covering letter should include an explanation of how your qualifications and experience make you a good candidate for this position. Informal inquiries are welcome. To ensure full consideration, all materials should be received by May 8, 2015; however, applications will be accepted until the position is filled.

Angela E. Douglas Daljit S. and Elaine Sarkaria Professor of Insect Physiology and Toxicology Department of Entomology and Department of Molecular Biology and Genetics 5134 Comstock Hall Cornell University Ithaca, NY 14853 USA

Tel. +1-607-255-8539 FAX +1-607-255-0939 email aes326@cornell.edu http://www.angeladouglaslab.com/ aes326@cornell.edu

CornellU MicrobiomesDrosophila

"Job: Evolution of Microbial Communities in Drosophila"

A postdoctoral position to investigate the coevolutionary interactions between drosophilid flies and their gut microbiota is available in the laboratory of Dr Angela Douglas (Cornell University, USA). The successful candidate will be strongly motivated to use metagenomics and related high throughput sequence data to establish how microbial diversity, stability and function covary with phylogeny and function of different Drosophila fly species. The position contributes to a NSF-funded team across three laboratories (with Dr John Jaenike, University of Rochester and Dr Greg Loeb, Cornell University), and is highly collaborative. Applicants will have a PhD in a biological discipline and expertise in next-generation sequencing and analysis, with a proven track record of effective research output. Prior microbiome research and expertise in (meta)genomics, bioinformatics and multivariate statistics, and experience of team-working are an advantage. The successful candidates will join an integrated team of researchers committed to understand the evolution and function of animal-bacterial symbioses (http://www.angeladouglaslab.com/).

Applications should be sent by email to Angela Douglas (aes326@cornell.edu). Please include a CV, statement of research, and details of three referees. The covering letter should include an explanation of how your qualifications and experience make you a good candidate for this position. Informal inquiries are welcome. To ensure full consideration, all materials should be received by May 8th, 2012; however, applications will be accepted until the position is filled.

Angela E. Douglas Daljit S. and Elaine Sarkaria Professor of Insect Physiology and Toxicology Department of Entomology and Department of Molecular Biology and Genetics 5134 Comstock Hall Cornell University Ithaca, NY 14853 USA

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DukeU evolutionaryorganismalbiomechanics

Postdoctoral Scientist in Integrative Organismal Biology

A postdoctoral position is available in the Patek laboratory < http://www.thepateklab.org/ > at Duke University to examine the evolution and biomechanics of fast biological movements across the tree of life. Our integrative and comparative research program links biomechanical analyses and field work with phylogenetic comparative analyses and modeling. We are looking for a candidate with experience in one or more of these areas. The candidate may have a background in biology, engineering and/or physics. A Ph.D. is required. The appointment will be for 12 months with the possibility for renewal contingent on performance. The annual salary range for this position will be commensurate with experience, starting at $42,840. The start date is flexible, preferably in summer or fall of 2015 or winter of 2016.

Applications will be accepted and evaluated on an ongoing basis until the position is filled. Please email a letter explaining your interest in and qualifications for the position, a curriculum vitae, research statement, up to three pdf reprints, and contact information for three professional references to: Prof. Sheila Patek, sheila.patek@duke.edu

FieldMuseum Chicago InsectPlantEvolution

POSTDOCTORAL RESEARCH ASSOCIATE IN THE MOREAU AND REE LABS AT THE FIELD MUSEUM ON INSECT-PLANT COEVOLUTION

When, where, and how did insect-plant associations arise, and how did this affect their evolutionary and ecological trajectories?

We seek an outstanding postdoctoral researcher to address this general question, including but not limited to studies emphasizing data-mining and phylogenetic reconstructions of co-evolutionary history. Potential general topics include plant-pollinator, plant-herbivore,

or other symbiotic interactions, or questions involving historical biogeography and ecological assembly (e.g., did insect groups specialized on desert plants evolve from non-plant-associated desert insects, or from plant-associated relatives outside the deserts?).

The successful candidate will work in collaboration between Dr. Corrie Moreau (www.moreaulab.org) and Dr. Richard Ree (www.reelab.net) in the museum's Integrative Research Center. In addition to conducting primary research, the candidate will work with educators in the museum's Learning Center to create a K-12 level classroom exercise and lesson plan focused on the tree of life.

The Field Museum offers a dynamic research community in evolutionary biology that includes resident curators, senior scientists, postdocs, and graduate students, as well as numerous associates at the University of Chicago, the University of Illinois at Chicago, the Chicago Botanic Garden, the Morton Arboretum, and Argonne National Labs. Chicago combines world-class urban amenities and culture with affordable costs of living.

Applications should include: 1) a cover letter including contact information for three references and preferred start date in 2015 (summer or fall preferred), 2) CV, and 3) a short proposal (2 page maximum) describing a research project fitting the theme of evolution of insect-plant interactions. (Important note: funds for new data collection will be limited, so projects should rely heavily or exclusively on existing data.)

The initial term of appointment is one year, renewable for an additional year upon satisfactory progress. Competitive salary depending on prior experience. Review of applications will begin on 7/7/2015. Outstanding candidates will be contacted for an interview.

Applications must be submitted electronically through the following application system: http://-app.hireology.com/s/41990 Informal inquiries may be directed to Rick (rree@fieldmuseum.org) and/or Corrie (cmoreau@fieldmuseum.org).

Corrie Saux Moreau, Ph.D. MacArthur Associate Curator - Insects Integrative Research Center Department of Science and Education Field Museum of Natural History 1400 South Lake Shore Drive Chicago, IL 60605 USA Office: (312) 665-7743 Fax: (312) 665-7754 Email: cmoreau@fieldmuseum.org Moreau Lab website: http://www.moreaulab.org/- FMNH website: http://fieldmuseum.org/users/corrie-moreau Field Museum Women in Science: http:/-/fieldmuseum.org/womeninscience Corrie Moreau <cmoreau@fieldmuseum.org>

GeorgiaTech MarineMicrobiomes

Postdoc in Marine Microbiome Research

The Stewart lab at Georgia Tech is looking for a postdoctoral fellow to study the microbiome of coral reef fishes. The postdoc will work jointly with Dr. Stewart and Dr. Danielle Dixson in the School of Biology to understand the diversity and evolution of the reef fish microbiome and its role in fish health and ecology. The work will involve collections at diverse field sites (e.g., Belize, Australia), experiments using aqua-cultured fish species, and a blend of molecular and bioinformatic analyses. The project utilizes a partnership with a major breeder and distributor of ornamental reef fish, enabling manipulations of diverse host species over developmental gradients and comparisons to wild populations. Research tasks will involve both culture-dependent and independent methods, with the latter focused on comparative analysis of single-cell genomic, metagenomic, and metatranscriptomic datasets. The postdoc will be encouraged to develop independent lines of research with in the broader goals of the project, and will work collaboratively with Dr. Stewart, Dr. Dixson, and graduate students to perform research and synthesize results for publication.

The ideal candidate will be enthusiastic, motivated by experimental and analytical challenges, and proficient in bioinformatics and molecular microbiology techniques. Candidates should have a Ph.D. focusing on microbiome or symbiosis research (or a related topic). Knowledge of marine biology and microbial evolution is highly desirable.

The School of Biology at Georgia Tech is a dynamic research environment with a strong core of researchers interested in marine systems, microbiology, and genomics. The Institute offers exceptional resources for bioinformatics and high-performance computing, and exciting opportunities for cross-departmental collaboration with computational scientists and earth and atmospheric scientists. Georgia Tech was recently voted one of the best places to work, and Atlanta is consistently ranked among the top ten places to live for young professionals.

This position begins in late summer/fall 2015, although there is flexibility in the start date. Funding is available for at least two years, but is contingent upon satisfactory progress in year one; applicants should express their ability to commit to the project for the initial two

years. Application materials should be emailed to the same address and should include a cover letter (describing your interest in the position, work experience, and availability), CV, and contact information (name, email, phone number) for at least three references. Please include the word "Postdoc" in the subject line. Salary will be competitive and commensurate with experience and will include fringe benefits. Review of applications will begin on May 1 and continue until the position is filled.

Informal inquiries about the position can be sent to Frank Stewart at frank.stewart@biology.gatech.edu. Additional details about the Stewart lab can be found at http://marine-micro.biology.gatech.edu/ Georgia Tech is a unit of the University System of Georgia and an Affirmative Action/Equal Opportunity Employer and requires compliance with the Immigration Control Reform Act of 1986.

frank.stewart@biology.gatech.edu

HarvardU FunctionalEvolutionaryEpigenetics

Postdoctoral Position in Functional and Evolutionary Epigenetics

The Lemos laboratory at Harvard University T. H. Chan School of Public Health is searching for a postdoctoral fellow in functional and/or evolutionary epigenetics. Opportunities include projects with both experimental and computational components. Ideal applicants must be extremely curious and motivated by science, be genuinely enthusiastic, and have the ability to work independently within a collegial and collaborative team. Applicants should expect a creative and fun research environment in which I can provide plenty of individual mentoring and support to develop your own interests and ideas.

Applicants must be US-citizen or permanent residents and have a PhD at the time of the appointment. Review of applications will start immediately. This specific position must be filled by July 1st. (Informal enquires of interested candidates with other timeframes or backgrounds are also welcome)

Applications should be sent to blemos@hsph.harvard.edu. Please send a cover letter (max 2 pages) describing your research interests and experience, a C.V. and contact information for three references.

Bernardo Lemos Assistant Professor Harvard T. H. Chan School of Public Health http://www.hsph.harvard.edu/-faculty/bernardo-lemos/ www.lemoslab.org blemos@hsph.harvard.edu

IISER-TVM Kerala India EvolutionaryEcol

POSTDOCTORAL POSITION AT IISER-THIRUVANANTHAPURAM, KERALA, INDIA.

A postdoctoral position in Evolutionary Ecology is available at IISER Thiruvananthapuram, Kerala, India, in the Vanasiri Evolutionary Ecology Group of Ullasa Kodandaramaiah (www.vanasiri.in)

DEADLINE: Screening of applications will start April 30th, but will continue until a suitable candidate is found.

SALARY: Rs. 43,200 - 48,000 per month (including Housing Rent Allowance; commensurate with experience)

RESEARCH SUBJECT(S): Our research group works on various questions within evolutionary ecology including prey-predator interactions, insect-hostplant co-evolution, parasite-host co-evolution, biogeography, phylogeography, population genetics, etc. More information at www.vanasiri.in/research. Currently used model systems include different insects (primarily butterflies), plants and reptiles.

Collaborations with candidates who can design projects that complement ongoing work in the group are welcome. I also welcome collaborations with candidates through projects on new kinds of questions, and/or new model organisms, which will enrich research in our group. The permanent campus of IISER Thiruvananthapuram is an outstanding location (see www.vanasiri.in/facilities) for ecological and evolutionary studies.

You are encouraged to contact me informally (ullasa@iisertvm.ac.in) to discuss your ideas and their feasibility before sending in your formal application.

SELECTION: Selection will be based on the scientific credentials of the candidate (needless to mention, a PhD is a must), quality of the research proposal and feasibility of carrying out the research proposal. The formal advertisement, including details about how to apply is here http://iisertvm.ac.in/openings/read_opening/115

DURATION: The initial contract will be for 1 year,

but can be extended to 2 years based on performance. The selected candidate is expected to join as soon as possible.

LIFE IN KERALA AND THIRUVANANTHAPURAM (TRIVANDRUM): The coastal city of Thiruvananthapuram is the capital of Kerala, and has a rich cultural heritage. It is within a stone's throw away from world-famous beaches such as Kovalam and Varkala, and lovely backwater tourism areas such as Poovar. Several hill stations (e.g Ponmudi) and wildlife sanctuaries are close by. Being a major medical tourism destination, the city has excellent medical care facilities.

It is a relatively small city, and the cost of living tends to be considerably lower than in bigger Indian cities. A 2-bedroom apartment can be had for Rs 8,000 - 10,000 per month. There are plenty of options for dining out - a meal at a decent local restaurant can start from Rs 50, but a good meal with a drink even in a five-star hotel usually costs less than Rs 1000. Costs for groceries and other daily needs can be looked up here (www.kada.in). Taxis can be hired from Rs 10 per km (with a minimum fare of Rs 50), while the cost of driving your own small car (not for the faint-hearted!) is about Rs 5 per kilometer (petrol: Rs 67/litre, diesel: Rs 55/litre).

Ullasa Kodandaramaiah ullasa@iisertvm.ac.in

IndianaU EvolutionDevelopmentalPlasticity

Postdoctoral Fellow: Evolution of developmental plasticity, Ragsdale Lab, Indiana University

A postdoctoral position is available in the laboratory of Erik Ragsdale, Department of Biology, Indiana University, Bloomington. Our lab investigates the genetic regulation and evolution of developmental plasticity, specifically a polyphenism that involves novel morphological and ecological traits. The focal species of this research is the nematodePristionchus pacificus, an emerging model system for evolutionary developmental genetics, which our lab studies using forward and reverse genetics, transgenics, and genome-wide approaches.

Recent work on P. pacificus, which alternatively develops into a microbe-feeding or a predatory morph in response to different environmental cues, has begun to reveal the genes comprising a developmental switch that regulates its polyphenism. This entry point into the genetics of a morphological dimorphism allows a mechanistic analysis of polyphenism in an animal model. Moreover, this system is embedded in a solid phylogenetic infrastructure that exhibits a broad range of feeding morphologies and ecologies. Given the laboratory availability of many species and populations of Pristionchus, this system offers a unique opportunity to discover how genetic factors and their interactions evolve to assume or modify the regulation of developmental plasticity.

The project will involve functional genetics, modeling of population-level processes, phylogenetic comparative analyses, and/or experimental evolution to determine the evolutionary significance of defined genetic mechanisms of polyphenism. For the position, we seek a collegial and intellectually driven individual with a recent Ph.D. in evolutionary biology or a related field. A background in population genetics and/or evolutionary modeling is especially desirable. Strong molecular biology skills are a plus but relevant training will be provided as necessary. The position will be funded for two years, with the potential to extend for an additional year. Salary will be commensurate with experience, and full benefits are included.

To apply, please submit (i) a letter of application, (ii) a full CV, (iii) a statement of research interests, and (iv) contact information for three references electronically to http://indiana.peopleadmin.com/postings/1527 Review of applications will start immediately and will continue until the position is filled. The exact start date is flexible but can begin as soon as the position is filled. Inquiries about the position can be directed to Erik Ragsdale (ragsdale@indiana.edu). Additional information about research in the Ragsdale lab can be found at: http://www.indiana.edu/~ragslab/ Bloomington is a vibrant college town located in scenic southern Indiana, close to several natural parks and wilderness areas, and it enjoys a local culture exceptionally rich in music, art, and theater.

Indiana University is an Equal Employment and Affirmative Action employer and a provider of ADA services. All qualified applicants will receive consideration for employment without regard to age, ethnicity, color, race, religion, sex, sexual orientation or identity, national origin, disability status, or protected veteran status.

Erik J. Ragsdale, PhD Assistant Professor of Biology Indiana University Bloomington, IN 47405, USA

www.indiana.edu/ ~ ragslab "Ragsdale, Erik" <ragsdale@indiana.edu>

INRA France ConservationModeling

Call for applications for a Postdoctoral Fellowship Provisioning and stability of multiple ecosystem services in agroecosystems A postdoctoral fellowship is proposed at CNRS Moulis and INRA Agroecology in collaboration with CNRS CEBC to develop theory on the magnitude and stability of multiple ecosystem services, such as crop production, pollination and conservation, and their synergies and trade-offs depending on the spatial arrangement of agricultural landscapes.

Application deadline: 9 May 2015 Eligibility deadline by Agreenskills (see below): 26 April 2015 Date of recruitment: from 1st August 2015 Open to: Young researchers holding a PhD with less than 7 years of postdoctoral research experience Fellowship: â¬3500/â¬5000*permonth*

Eligibility Applicants must: - Hold a PhD (or PhD will have been awarded by the date of recruitment); - Have less than 7 years of research experience after their PhD; - Have spent no more than 12 months in France during the 3 years prior to the date of recruitment; - Be able to write and speak English or French fluently; - Have at least 1 publication in a peer-reviewed journal;

Application Candidates interested in the postdoctoral research position should contact Sabrina Gaba (sabrina.gaba@dijon.inra.fr). The postdoctoral project is part of Agreenskills (http://www.agreenskills.eu/), hence candidates are evaluated and selected through two selection rounds per year for both programs: - Before April 26th 2015: Candidates interested in the research project will have to fulfil the eligibility criteria (described below) and to complete an online application through the secure area of the AgreenSkills web portal. Applicants will have to provide a detailed CV. - Before May 9th 2015: Once declared eligible, candidates will be able to apply by proposing a research project that is relevant to the fields of interest of the research teams.

INRA < http://www.inra.fr > *SabrinaGaba* *Chargée de recherches * sabrina.gaba@dijon.inra.fr *Centre INRA de Dijon* Tèl. : +33 (0)3 80 69 31 87 Fax : +33 (0)3 80 69 32 62

17, rue de Sully, BP 86510 21065 Dijon Cedex France http://www6.dijon.inra.fr/umragroecologie Sur twitter: @sabrina_gaba Sur twitter: @ZA_PVS

Sabrina Gaba <sabrina.gaba@dijon.inra.fr>

Kaiserslautern ProtistDiversityBiogeography

Postdoc position in protist biodiversity/biogeography in Kaiserslautern, Germany

A two-year postdoc position is available in the DFG-Emmy-Noether Independent Junior Research Group for Microbial Diversity at the University of Kaiserslautern. This work is part of a 5-year high-throughput sequencing study of the diversity and biogeography of soil-inhabiting protists in rainforests in Costa Rica, Panama, and Ecuador. Fieldwork is possible, although not required.

The candidate for this position must have excellent bioinformatic skills (efficient shell, python, and R scripting) and knowledge of basic statistics. Additional requirements: a Ph.D. in biology or computer science; good working knowledge of English, both written and verbal; motivation and ability to work independently. Salary follows DFG guidelines (E13).

The Microbial Diversity research group is headed by Dr. Micah Dunthorn. Other work in the group includes de novo genome sequencing and meiotic gene inventories to evaluate putative asexuality in ciliates and other protists, and ciliate molecular phylogenetics. This group is located in the Department of Ecology.

If interested, please send an e-mail with a single pdf containing your C.V., a description of your motivation and research interests, reprints of published papers, and contact details of two academic references to: dunthorn@rhrk.uni-kl.de Applications will be screened until the position is filled. Starting date: Fall 2015.

Micah Dunthorn http://www.bio.uni-kl.de/-microbialdiversity/ Micah Dunthorn <dunthorn@rhrk.uni-kl.de>

KAUST EcolEvolutionaryGenomics

Postdoctoral and PhD Fellowship in Bioinformatics and Ecological/Evolutionary Genomics and Epigenomics of Coral Reef organisms.

A Postdoctoral and a PhD Position are currently available in the Integrative Systems Biology lab at the King Abdullah University of Science and Technology (KAUST)

In the Integrative Systems lab we work on many different and diverse projects applying computational and lab-based analyses using new technology to understand biological processes on the molecular level. We are part of the KAUST Environmental Epigenetics program (KEEP).

http://systemsbiology.kaust.edu.sa http://-keep.kaust.edu.sa The largest and newest projects in the lab focus on trans-generational adaptation to fast changing environments due to climate change and in particular on the understanding of the molecular regulatory mechanisms at the base of this adaptation. We mainly study Coral Reef organisms such reef fishes and marine sponges. We are seeking a highly motivated postdoc or PhD student to work on the computational analysis of long-term experimental projects on various marine organisms. We are using Next Generation Sequencing approaches (mostly Illumina based) in order to collect and integrate genome-wide measurements such as genome, transcriptomics, proteomics, and methylomes sequencing datasets.

KAUST is an extremely diverse environment and our lab is currently made up of people from 12 different countries of origin. Apart from being a new University Campus with cutting-edge technologies, it is also a community. Within KAUST there is the University campus, two large sports centers, many restaurants, a town center, a cinema, a marina, diving facilities (it is located directly on the Red Sea coast), a beach with water sports facility etc. http://www.kaust.edu.sa/ Requirements:

Postdoc candidates should have or be close to obtaining a Ph.D. or equivalent degree. PhD students should have finished or be about to finish their Masters degree.

Preferred degrees are in bioinformatics, computational biology, computer science, molecular biology, or a closely related field. Candidates with a background in evolutionary biology and Next Generation Sequencing approaches are particularly encouraged to apply.

Programming skills and experience in the application of computational methods to genomic data are preferred. A proficient level of English is required and good communication and writing skills are a must.

Postdoc salary is from 55.000$ per year upwards depending on experience. The appointment is for two years initially and can be extended for another year. Generous furnished housing and health care is provided, plus an annual airfare to the country of origin and a large relocation fee are paid.

PhD fellowship: 25.000$ per year and 30.000$ when the student becomes a PhD candidate. Furnished housing and health care is provided, plus an annual airfare to the country of origin and a relocation fee are paid.

Interested applicants can send a CV, a letter of interest, and the names of two potential references to Timothy Ravasi: timothy.ravasi@kaust.edu.sa.

If you have any questions about life in KAUST and Saudi Arabia, please feel free to either contact myself or a female postdoc in our lab: celia.schunter@kaust.edu.sa

Looking forward to hearing from you.

Timothy Ravasi Associate Professor of Bioengineering Associate Professor of Computer Science Division of Biological and Environmental Sciences & Engineering Division of Applied Mathematics and Computer Sciences King Abdullah University of Science and Technology Thuwal 23955-6900 Kingdom of Saudi Arabia Office +966-2-808-2387

Celia Schunter <celiaschunter@gmail.com>

LavalU EvolGenomicsSystemsBiol

Postdoctoral position in evolutionary genomics/systems biology at Laval University

The Landry lab at Laval University (http://-landrylab.ibis.ulaval.ca/) is recruiting a postdoctoral fellow to work on a project in evolutionary genomics or systems biology.

The study subjects could include for instance the evolution of regulatory networks during ecological speciation, the evolution of reproductive incompatibilities, the evolution of anti-fungal resistance, the predictability of evolution during adaptation and the molecular architecture of compensatory evolution at the level of protein interaction networks. Our study models are the budding yeasts of the genus Saccharomyces but other experimental models could also be used.

Laval University is one of the most important research universities in Canada and is located in Quebec City, a lively city with a vibrant culture that offers an exceptional quality of life.

Starting dates would be between January 2016 and July 2016. The candidate must be highly motivated, have

a PhD in biology or in a related field, have a strong background in evolutionary biology and at least some basic training in bioinformatics (Perl, Python, R) and genomics.

Interested candidates should send a single PDF file with a CV, a list of publications, a one-page statement of research interests and the contact information for three referees.

The position will be open until a candidate is found.

Christian

Christian Landry, PhD Professeur agrégé Chercheur Junior II du FRQS Département de Biologie Institut de Biologie Intégrative et des Systèmes/PROTEO Local 3106, Pavillon Charles-Eugène-Marchand 1030, Avenue de la Médecine Université Laval Québec (Québec) G1V 0A6 Canada

http://landrylab.ibis.ulaval.ca/ Téléphone: 418-656-3954 Télécopieur: 418-656-7176

Christian Landry <Christian.Landry@bio.ulaval.ca>

MACN BuenosAires ArachnidSystematics

23 April 2015

Call for a postdoctoral candidate - MACN, Buenos Aires, Argentina, iv.2015

The laboratory of systematics and biology of arachnids at the Argentinean Museum of Natural Sciences is looking for a candidate for a postdoctoral fellowship of CONICET. Our lab has a strong background in taxonomic and phylogenetic studies of spiders (Martín Ramírez), scorpions (Andrés Ojanguren) and opilionids (Abel Pérez González) with access to scanning electron microscope, molecular laboratory, library, and an excellent collection of arachnids. Our group has research funding and has collaborations with research teams in arachnology around the world. All this, combined with our strong relationships with the major arachnological collections and curators worldwide, offers an exceptional atmosphere and a good basis for developing a career in arachnology.

The objective of this call is to select a candidate who will submit a proposal for the 2015 call of postdoctoral fellowships from CONICET.

Those who are interested must send a complete CV and a letter of intention. After a first round of evaluation the top candidates will be called for a personal interview or videoconference. The deadline for application is May 20, 2015 and results will be communicated on May 25. The selected candidate will submit a proposal (in June) to the 2015 call for fellowships of CONICET and awards will be effective during the period of April 2016-2018.

Details Postdoctoral candidate for molecular systematics of arachnids. We seek one candidate with a good publication record, experience and skills in obtaining and analyzing molecular data for phylogenetic reconstructions, ability to design studies and train students. This position is expected to lead the work in the molecular laboratory, generate and complement existing data of spiders, scorpions, solpugids and opilionids, to test hypotheses of biogeographic origins, divergence times, inter-species and higher level relationships, and the evolution of selected organ systems. Taxonomic knowledge of arthropods is favorable. Specific inquiries concerning this call and submission of application documents should be directed to Martín Ramírez, email: ramirez@macn.gov.ar

Martín J. Ramírez Curador General & División Aracnología Museo Argentino de Ciencias Naturales - CONICET Av. Angel Gallardo 470, C1405DJR Buenos Aires, Argentina tel +54 11 4982-8370 int. 169 fax +54 11 4982-6670 int. 172

Sara Ceccarelli <saracecca@hotmail.com>

MichiganStateU 2 TheoreticalMicrobialEvolution

Two postdoctoral positions are available in the Klausmeier lab at Michigan State University's Kellogg Biological Station to develop trait-based models for complex microbial communities. We will study the evolution and ecology of syntrophic networks and competition in variable environments, and develop computational tools for trait-based modeling. Experience with ecological and evolutionary modeling, adaptive dynamics, stochastic spatial simulations, bifurcation theory, and Mathematica and background in microbial ecology are beneficial but not required.

Both positions are for one year initially, renewable for a second year depending on performance and continued funding. Start date is as soon as possible after June 1, 2015. Interested applicants should email a CV, a brief statement of research interests and accomplishments,

and the names and contact information of two references to Christopher Klausmeier (klausme1@msu.edu). Review of applications will begin May 1 and continue until filled.

See < http://preston.kbs.msu.edu > and < http://www.kbs.msu.edu > for more info on the lab and KBS, and email if you have questions.

Christopher Klausmeier Kellogg Biological Station & Department of Plant Biology Michigan State University Hickory Corners MI 49060

Phone: (269) 671-4330 Web: http://-preston.kbs.msu.edu/ Email: klausme1@msu.edu

Christopher Klausmeier <klausme1@msu.edu>

MonashU 2 QuantBiology

2 x Two year post docs in quantitative biology (with an option for a further 2 years) are available in the Marshall group. See http://jobs.monash.edu.au/-jobDetails.asp?sJobIDs=534343 for details.

Prof. Dustin Marshall School of Biological Sciences Monash University, Clayton Campus Victoria, Australia, 3800 Ph: +61 (3) 9902-4449

Dustin Marshall <dustin.marshall@monash.edu>

Montpellier EvolutionMalaria

Post-doc position in Montpellier on disease ecology of malaria in Bobo-Dioulasso

During the last century, WHO have led public health interventions that resulted in spectacular achievements such as the worldwide eradication of smallpox and the elimination of malaria from the Western world. However, besides major successes achieved in control of infectious diseases, most elimination/control programs remain frustrating in many tropical countries where specific biological and socio-economical features have prevented implementation of disease control over broad spatial and temporal scales. Emblematic examples include malaria, dengue, yellow fever, measles and HIV. There is consequently an urgent need to develop affordable and sustainable disease control strategies that can target the core of infectious disease transmission in highly endemic areas.

Focusing on Dengue transmission in Phnom Penh (Cambodia) and on malaria spreading in Bobo-Dioulasso (Burkina Faso), the PANIC project (Pathogens NICche: a new approach for infectious diseases control) aims to develop conceptual, empirical and theoretical frameworks to envision optimized public health strategies for vector-borne diseases by considering the most recent advances in ecology and evolution of infectious diseases. Funded by the Agence Nationale de la Recherche (ANR, www.agence-nationale-recherche.fr) for five years, this project involves French, Burkinabese and Cambodian researchers from various fields (entomology, virology, epidemiology, disease ecology, modeling) to tackle this issue.

Within this context, we are seeking for a post-doctoral fellow who will focus on data analyses to quantify the contribution of (i) mosquito population dynamics, (ii) change in human behavior and (iii) resident immunity on the spatio-temporal transmission of malaria in Bobo-Dioulasso. Most of the data relevant to this project (household socio-economic data, epidemiological time series and mosquito population dynamics from different neighborhoods) are already available, and additional data will be collected in the field at the beginning of the project. Therefore, several stays have to be expected in Bobo-Dioulasso, with flexible durations.

The ideal candidate will have a PhD in epidemiology or in ecology and evolution of infectious diseases and a trans-disciplinary profile with evidence of scientific autonomy. Good knowledge in statistics and/or a first experience on the infectious diseases epidemiology/dynamics in southern countrieswill be greatly appreciated. This position is for two years, starting ideally in September 2015, in MIVEGEC lab in Montpellier (www.mivegec.ird.fr).

Interested candidates should apply by June 1st by sending (1) a letter of motivation, (2) a CV with publication list, and (3) the names, institutions and email addresses of three references to Dr. Benjamin Roche at benjamin.roche@ird.fr.

– Benjamin Roche, PhD

Labs: International Center for Mathematical and Computational Modeling of Complex Systems (UMMISCO) Infectious Diseases: Vector, Control, Genetic, Ecology and Evolution (MIVEGEC) Centre for Ecological and Evolutionary Research on Cancer (CREEC)

Postal address: Research Institute for Development (IRD) 911, avenue Agropolis BP 64504 34394 Montpellier Cedex 5 France

Phone:+33629585460 e-mail:roche.ben@gmail.com web:http://roche.ben.googlepages.com Benjamin Roche <roche.ben@gmail.com>

Montpellier PathogenEvolution

Postdoctoral Scientist in Analysis of pathogen interactions and pathogen communities

A 24 months Postdoctoral Scientist position is available in September 2015 at the Institute of Research for Development (IRD), in Montpellier, France. The work will be performed in the research group headed by Dr. Benjamin Roche. The project is funded by a grant from the Agence Nationale de la Recherche (ANR).

Scientific context: The proposed project will study how pathogen interactions, through immunological, ecological or social mechanisms, can take place in space and time to shape pathogen communities in human populations. In addition of the intriguing knowledge produced in fundamental ecology by this project, major public health perspectives are also expected. To answer these questions, two unique datasets are available in this project. The first one, focusing at a population scale, includes weekly notifications of more than 30 pathogens within an homogeneous area. The second dataset, targeting an individual scale, relies on a human cohort involving more than 4,000 individuals who have been screened for about 15 pathogens.

Position description: The candidate will combine theoretical modeling of multi-pathogen systems with cutting-edge statistical analysis of the available dataset in order to: (i) characterizing robustly the different kind of pathogen interactions, (ii) understanding the ecological pressures shaping pathogen communities and (iii) predicting the outcomes of the different public health strategies on the structure of pathogen communities.

The candidate will have a PhD in Biological Sciences and a demonstrated experience in ecological/epidemiological modeling of infectious diseases. Interested candidates should apply by June 1st by sending (1) a letter of motivation, (2) a CV with publication list, and (3) the names, institutions and email addresses of three references to Dr. Benjamin Roche at benjamin.roche@ird.fr.

Living at Montpellier:http://www.agropolis.org/-english/guide/index.html

– Benjamin Roche, PhD

Labs: International Center for Mathematical and Computational Modeling of Complex Systems (UMMISCO) Infectious Diseases: Vector, Control, Genetic, Ecology and Evolution (MIVEGEC) Centre for Ecological and Evolutionary Research on Cancer (CREEC)

Postal address: Research Institute for Development (IRD) 911, avenue Agropolis BP 64504 34394 Montpellier Cedex 5 France

Phone:+33629585460 e-mail:roche.ben@gmail.com web:http://roche.ben.googlepages.com Benjamin Roche <roche.ben@gmail.com>

NHGRI EvolutionaryGenomics

Computational and Statistical Genomics Branch National Human Genome Research Institute National Institutes of Health

Postdoctoral Fellowship in Bioinformatics and Evolutionary Genomics

A postdoctoral training position is currently available in the Computational and Statistical Genomics Branch (CSGB) of the National Human Genome Research Institute (NHGRI). The position is located in the laboratory of Andy Baxevanis, Ph.D., whose research group uses comparative genomics approaches to better-understand the molecular innovations that drove the surge of diversity in early animal evolution. The overarching theme of Dr. Baxevanis' research program is focused on how non-traditional animal models convey critical insights into human disease research.

With this translational context in mind, Dr. Baxevanis' group is currently leading an international effort to sequence two cnidarian species: Hydractinia echinata and Hydractinia symbiolongicarpus. The regenerative abilities of these colonial hydrozoans make them excellent models for the study of key questions related to pluripotency, allorecognition, and stem cell biology, work that will be significantly advanced by the availability of high-quality whole-genome sequencing data from these organisms. In addition, and in collaboration with colleagues at the Whitney Marine Laboratory of the University of Florida, the group has now begun sequencing Chaetopterus, a polychaete worm that exhibits exceptional regenerative abilities; this organism also shows particular promise for advancing our understanding of early developmental processes and bioluminescence. The successful applicant will have the opportunity to develop

and apply bioinformatics approaches to these and other large-scale genomic data sets, focusing on the evolution of specific protein families, with an emphasis on examining their putative roles in disease causation.

Candidates should have or be close to obtaining a Ph.D. or equivalent degree in bioinformatics, computational biology, computer science, molecular biology, or a closely related field. Candidates with a background in evolutionary biology are particularly encouraged to apply. Programming skills and experience in the application of computational methods to genomic data are highly desirable. Applicants must possess good communication skills and be fluent in both spoken and written English. The ability to learn how to use new software and quickly become expert in its use, critical thinking, problem-solving abilities, and the ability to work semi-independently are required.

The NIH Intramural Research Program is on the Bethesda, Maryland campus and offers a wide array of training opportunities for scientists early in their careers. The funding for this position is stable and offers the trainee wide latitude in the design and pursuit of their research project. The successful candidate will have access to NHGRI's established and robust bioinformatics infrastructure, as well as resources made available through NIH's Center for Information Technology (CIT) and the National Center for Biotechnology Information (NCBI).

Interested applicants should submit a curriculum vitae, a detailed letter of interest, and the names of three potential referees to Dr. Baxevanis at andy@mail.nih.gov.

For more information on CSGB and NHGRI's Intramural Research Program, please see http://genome.gov/-DIR/ . DHHS and NIH are Equal Opportunity Employers and encourage applications from women and minorities.

andy@mail.nih.gov

NorthCarolinaStateU PopGenSelfishGenes

Postdoc: Population Genetics of Selfish Genetic Element

PROJECT DESCRIPTION:

Selfish genetic elements have been studied for over a century, and as far back as the 1960s researchers became interested in using the power of selfish genetic elements to drive genes into pest species to suppress their impacts (Gould et al. 2006). Until recently, the focus of applied work was on naturally occurring elements. In the past decade some progress was made on developing synthetic elements that mimicked natural meiotic drive and selective embryo-killing, but de-novo creation of a gene-drive system in a pest species was elusive. With the harnessing of the bacterial CRISPR-Cas9 system in the past few years there has been a revolution brewing in this field (Esvelt et al. 2014, Oye et al. 2014). In March 2015 a pivotal article by Gantz and Bier (2015) came out in Science on-line demonstrating a CRISPR-Cas9 construct in Drosophila with strong gene drive. This proof of principle has gained much attention.

Prospects are good that very soon a single student could engineer a system for driving deleterious or behavior modifying genes into pest populations. Not everyone is comfortable with these developments and there has even been a call for a moratorium on certain experiments. There are also concerns about nefarious use of the technology.

The bottom-line is that progress in molecular biology is ahead of the population genetic work needed to build systems that are less risky but accomplish changes in the public interest.

We have been funded by the NIH and the W. M. Keck Foundation to conduct this kind of population genetic research. Our focus has been on mosquitoes that transmit dengue and malaria, but we are also interested in other biological systems (There is hope that these selfish genetic elements can save endangered species like Hawaiian honeycreepers and specific seabirds (Gould 2008, Esvelt et al. 2014).

The postdoc in this position will build a set of simple to complex models to examine the expected dynamics of gene drive systems in mosquitoes and other taxa.

The most detailed model that we have developed simulates the population dynamics and population genetics of Aedes aegypti, the vector of dengue, in a city on the Amazon river, Iquitos, for which there are rich data sets on both mosquito dynamics and dengue epidemiology (e.g. Magori et al. 2009, Okamoto et al 2014). An accompanying epidemiological model is currently under development. The goals of two other postdocs in our group are to expand the mosquito model and the human epidemiology model to encompass the entire city of about 400,000 people. The postdoc in this new position will collaborate with the other postdocs to use these detailed models to test gene drive systems, but will also develop more generic models (e.g. Huang et al. 2010).

In addition to working on model development and analy-

sis, the person in this position will have the opportunity to collaborate in an interdisciplinary research group composed of mosquito ecologists, disease epidemiologists, molecular biologists, biomathematicians, ethicists, and scientists from disease-endemic countries. We are dedicated to taking seriously the ethical and political issues surrounding this technology.

DESIREABLE SKILLS: A background in population genetics and the ability to program in C++ (or knowledge of a related programming language), and training in evaluation of mechanistic models.

TO APPLY: email a cover letter and CV to Fred_Gould@ncsu.edu

References:

Esvelt, K. M., A. L. Smidler, F. Catteruccia, G. M. Church. 2014. Concerning RNA-guided gene drives for the alteration of wild populations. eLife. 10.7554/eLife.03401.

Gantz, V. M. and Bier, E. 2015. The mutagenic chain reaction: A method for converting heterozygous to homozygous mutations. Science 24 April 2015- 442-444. Published online 19 March 2015 [DOI:10.1126/science.aaa5945]

Gould, F. 2008. Broadening the application of evolutionarily based genetic pest management. Evolution 62: 500V510.

Gould, F., K. Magori, Y. X. Huang 2006 Genetic strategies for controlling mosquito-borne diseases. American Scientist. 94 (3): 238- 246.

Huang, Y., Lloyd, A.L., Legros, M., Gould, F. 2010. Gene-drive into insect populations with age and spatial structure: a theoretical assessment. Evol. Appl. ISSN 1752-4571.

Magori, K., M. Legros, M. Puente, D. A. Focks, T. W. Scott, A. Lloyd, F. Gould. 2009. Skeeter Buster: a stochastic, spatially-explicit modeling tool for studying Aedes aegypti population replacement and population suppression strategies. PLoS Negl Trop Dis 3(9): e508. doi:10.1371/journal.pntd.0000508

Okamoto, K. W., Robert M. A., Gould, F., Lloyd, A. L.2014) Feasible Introgression of an Anti-pathogen Transgene into an Urban Mosquito Population without Using Gene-Drive. PLoS Negl Trop Dis 8(7): e2827. doi:10.1371/journal.pntd.0002827.

Oye, K. A. et al. 2014. Regulating gene drives. Science. 345:626-628 Published online 17 July 2014

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To read the entire message look it up at http://life.biology.-mcmaster.ca/~brian/evoldir.html

Paris CaenorhabditisVirusEvolution

Postdoc and technician positions Félix lab, Paris, France Co-evolution of Caenorhabditis and viral pathogens

A postdoctoral position and a technician position are available in the laboratory of Marie-Anne Félix, Ecole Normale Supérieure, Paris, France to study the mechanistic basis of the evolution in sensitivity of the nematodes C. elegans and C. briggsae to three viral pathogens. On the host side, the molecular basis of observed variation in sensitivity and specificity will be studied using quantitative genetic methods (cf. Ashe et al. eLife 2013, 2:e00994) and molecular genetics. On the virus side, changes in host specificity will be studied using transgenic reconstitution of the viruses in Caenorhabditis (Jiang et al. J. Virology 2014, 88:11774). The positions are for two to three years starting from 1 October 2015.

For interested candidates, please send a letter of motivation, a Curriculum Vitae and a list of three referees. Do not hesitate to contact me if you have questions.

Marie-Anne Félix e-mail: felix@biologie.ens.fr

http://www.ibens.ens.fr/?rubrique29&lang=en The lab is located in the center of Paris.

Marie-Anne Felix Institute of Biology of the Ecole Normale Supérieure (IBENS) 46 rue d'Ulm, 75230 Paris cedex 05, France 8th floor. Office: Room 801. Lab: Room 817. mail: felix@biologie.ens.fr Tel: +33-1-44-32-39-44 http://www.ibens.ens.fr/?rubrique29&lang=en STRAINS: http://www.justbio.com/worms/index.php felix@biologie.ens.fr

PrincetonU TermiteEvolution

Postdoctoral Research Associate Position in Ecology, to work with Professors Robert M. Pringle and Corina E. Tarnita in the Department of Ecology and Evolutionary Biology, Princeton University.

https://jobs.princeton.edu/applicants/jsp/shared/-position/JobDetails_css.jsp?postingId!0311 Applica-

tions are invited for a postdoctoral research associate position on the ecology of self-organized spatial patterning and termite ecosystem engineers in African savannas. The goal of this project is to explore, using a diverse suite of theoretical and empirical approaches, how termite colonies interact with each other and their environment to generate regular spatial patterning at multiple scales and across multiple trophic levels. The specific aims of the planned work are to mechanistically test theoretical predictions stemming from recent work in this system about how termite-generated spatial patterning (a) is created and maintained, (b) shapes broader community and ecosystem properties, and (c) responds to climatic variability.

For further information about these ideas and the study system in central Kenya, see:

Bonachela, JA, et al. 2015. Science 347:651-655 (http://www.sciencemag.org/content/347/6222/651.abstract)

Pringle, R.M., et al. 2010. PLoS Biology 8:1000377 (http://journals.plos.org/plosbiology/article?id.1371/journal.pbio.1000377)

We will also work with the postdoctoral researcher to identify and explore novel theoretical dimensions, as well as the applicability of results to diverse ecosystems worldwide. The successful candidate will be jointly mentored by Pringle and Tarnita and will be embedded within Pringles laboratory in Princeton; fieldwork will be conducted at the Mpala Research Centre in Laikipia, Kenya, and possibly other locations within Africa. Beyond Pringles and Tarnitas research groups, the successful candidate will have the opportunity to interact extensively with Princetons EEB Department and with project collaborators elsewhere.

Candidates are required to have a Ph.D. in biology, entomology, biogeochemistry, ecohydrology, soil science, physics, or a related field. We particularly seek candidates with experience in experimental ecology who desire to conduct fieldwork in Africa. We emphasize that although this work is theoretically motivated, formal mathematical training is not required; what is required is an ability to think conceptually and work creatively with colleagues from diverse disciplinary backgrounds. Expertise in one or more of the following areas, while not essential, would be highly beneficial: molecular biology, insect behavior, soils analysis, population genetics, modeling and computation, GIS and remote sensing.

The appointment is for one year initially, with the possibility of renewal up to three years, based on performance and funding. Salary is competitive and commensurate with experience, and benefits are included. This position is available immediately and is subject to the University's background check policy.

Applicants should apply online to Req #1500214 and submit a curriculum vitae, a brief statement of research interests and experience, one PDF reprint or writing sample representing your best work, and a cover letter with names and contact information of three referees.

We encourage applications from members of groups underrepresented in Science, Technology, Engineering, and Mathematics. Princeton University is an equal opportunity employer and all qualified applicants will receive consideration for employment without regard to race, color, religion, sex, national origin, disability status, protected veteran status, or any other characteristic protected by law.

This link should bring you directly to the job posting:

https://jobs.princeton.edu/applicants/jsp/shared/position/JobDetails_css.jsp?postingId!0311

Robert M. Pringle Assistant Professor Department of Ecology & Evolutionary Biology Princeton University, Princeton, NJ 08544 Lab Website

Rob Pringle <rpringle@princeton.edu>

RoyalBotanicGardensKew TreePhylogenomics

Two Phylogenomics Research Fellows posts

We are seeing to recruit two interlinked active phylogenomic research fellows who will join a team of plant phylogenetic and evolutionary experts in the Department of Comparative Plant and Fungal Biology at Royal Botanic Gardens, Kew, UK. The posts will provide the appointed research fellows with the opportunity to engage with the latest advances in next generation sequencing technologies to address both pure and applied research questions, with a focus on tree genomics, conservation and seed science. The focus of the two posts are 1) Establishing a genomic library for South-East Asian trees for biodiversity analysis, conservation and authentication, and 2) Evolution and diversification of a "recalcitrant" tree family in the Asia-Pacific.

For further information, including an overview of the research proposed for each post, and to apply, please see https://careers.kew.org/vacancy/phylogenomics-research-fellows-217344.html Dr Ilia Leitch (i.leitch@kew.org) Dr William Baker (w.baker@kew.org) Dr Felix Forest (f.frest@kew.org)

F.Forest@kew.org

RoyalBotanicGardens UK SorbusGenetics

We are now looking to appoint a postdoc to work on Sorbus genetics, focusing on S. porrigentiformis, using next generation sequencing methods. This two-year job is now live on Kew.org and Kewnet. Please share the following link on EvolDir.

https://careers.kew.org/vacancy/postdoctoral-research-assistant-sorbus-genetics-213956.html Dr Michael F. Fay FLS Head of Genetics Royal Botanic Gardens, Kew Richmond Surrey TW9 3AB UK

Chief Editor, Botanical Journal of the Linnean Society

Tel (44) (0) 20 8332 5315 Fax (44) (0) 20 8332 5310

Mike Fay <M.Fay@kew.org>

RutgersU ExperimentalEvolution Virus

Research-Teaching Postdoc in Experimental Evolution

A full-time postdoctoral position is available in the Duffy Lab (http://www.rci.rutgers.edu/~siobain/) at Rutgers University to carry out experimental evolution research with the model RNA virus bacteriophage phi6. This 70% research position will focus on how epistasis affects viral emergence in novel hosts. The remaining 30% of the position involves teaching and developing teaching proficiency: designing a new undergraduate experimental evolution lab course with the PI, team-teaching undergraduate courses in evolution, and designing and teaching activities to middle school students. This position is ideal for candidates wanting to establish a teaching portfolio while conducting postdoctoral research on the evolution of infectious disease.

The postdoc will be responsible for developing hypotheses, designing experiments, conducting wet lab research, analyzing results, preparing/presenting data at national/international conferences, generating high quality journal publications and assisting in grant preparation. Additionally, the postdoc is expected to participate in our highly collaborative laboratory environment, and assist in supervision of undergraduate student projects. The position is funded for 2.5 years by the NSF and Rutgers School of Environmental and Biological Sciences, though renewal after the first year is contingent on performance.

Ideal candidates will have a strong background in molecular evolution, population genetics and microbiology, and have previously worked and published in either experimental evolution or molecular phage/virology research. The successful applicant will be highly organized, have strong interpersonal skills, and have a demonstrated ability to communicate clearly in English. Applicants must have a PhD/have successfully defended their dissertation in a relevant biological science before taking up the position.

The Duffy lab combines computational and wet lab approaches to understand short term and long term patterns in viral evolution. Individuals in the lab focus on viruses of mammals, plants and microbes, though dsRNA phage phi6 is currently the dominant experimental system in the lab.

Rutgers, the State University of New Jersey, is a leading national public research university. New Brunswick is within an hours drive of New York City and beaches on the Atlantic Ocean, and within a 90 minute drive of Philadelphia and the Appalachian Trail. New Jersey is one of the most ethnically diverse states, with over 20% of the population having immigrated to the US.

Application review will start on 4/22/15 and will continue until the position is filled. The start date is flexible, but start dates in summer 2015 are preferred.

Salary is based on qualification and experience.

Any informal queries should be emailed to Siobain Duffy (duffy@aesop.rutgers.edu)

To apply, please send the following items to duffy@aesop.rutgers.edu: (1) a cover letter stating preferred start date (2) a curriculum vitae, including previous research and teaching experience, and contact information for three references, and (3) a brief statement of research interest and career goals.

Rutgers is an equal opportunity/affirmative action employer, and candidates from all backgrounds are encouraged to apply.

Siobain Duffy Associate Professor (as of 7/1/15) Department of Ecology, Evolution and Natural Resources School of Environmental and Biological Sciences Rutgers, The State University of New Jersey

duffy@AESOP.Rutgers.edu

RutgersU PopulationGenomics

Postdoctoral position in Population Genomics at Rutgers University

Seeking qualified applicants for a post-doctoral position with Andrew Kern in the Department of Genetics and the Human Genetics Institute of New Jersey at Rutgers University. The position is NIH funded to work on methods development for parameter inference in Isolation with Migration (IM) models. This work will be done in collaboration with the lab of Jody Hey at Temple University.

More information about the Kern lab can be found here: http://kernlab.rutgers.edu . More information about the department can be found here: http://-genetics.rutgers.edu/. The Kern lab is located on the Busch campus of Rutgers University, in central New Jersey, and is in easy commuting range to New York City.

The ideal candidate would hold a Ph.D. and have a record of research achievement in population genetics, computational biology, computer science, statistics, or a related field. A background in comparative/population/evolutionary genomics is of course highly desirable. In addition the candidate should have experience programming in C, a scripting language (Ruby, Python, or Perl is fine), and would ideally be comfortable with cluster computing environments.

Review of applications will begin immediately and continue until the positions are filled. The position could begin as early as July, 2015. Interested candidates should submit an electronic version of their CV along with a cover letter describing their qualifications and relevant experience to Andrew Kern (kern@biology.rutgers.edu)

Andrew Kern Assistant Professor of Genetics Rutgers University website: http://kernlab.rutgers.edu email: kern@biology.rutgers.edu

Kern@dls.rutgers.edu

StellenboschU EvolutionaryBreakpoints

A post-doctoral position in comparative genomics is available in the Evolutionary Genomics Group, Department of Botany and Zoology at Stellenbosch University to investigate the genomic structure of evolutionary breakpoint regions in mammals.

Our recent data suggest that the number of meiotic DSBs (initiated in the early stages of meiosis) and final crossover events are influenced by how the genome is organized into chromosomes. Here we extend this work by inferring recombination rates in evolutionary breakpoints that define chromosomal rearrangements by focusing on two index species with available SNP data, human and mouse. The rationale for this approach is that high-density single-nucleotide polymorphisms (SNPs) can be used to produce high-resolution recombination maps using linkage disequilibrium (LD) patterns which are good estimators of the location of recombination events in progeny. It has been argued that rates of recombination might vary considerably between species when comparing high-resolution (kb) recombination maps but these differences disappear at a broader scale (Mbp) where closely related species tend to have similar average rates of recombination. It is our intention to combine SNP data with whole-comparative genomics in order to infer recombination rates and investigate signatures of selection.

Applicants should have a PhD in a relevant area (evolutionary biology, genomics, bioinformatics or genetics). We are looking to appoint an enthusiastic postdoc with a strong interest in evolutionary biology that includes a background in population/statistical genetics. Requirements are a competitive publication record and skills in programming.

The incumbent will work closely with researchers in two other groups: Dr Aurora Ruiz-Herrera (Universitat Autònoma de Barcelona, Spain, http://-grupsderecerca.uab.cat/evolgenom/) and Professor Jiri Rubes (Veterinary Research Institute, Czech Republic) but will be located in the Stellenbosch lab. The appointment is for one year with the possibility of renewal contingent upon satisfactory progress. This position is available immediately.

Expressions of interest should be sent to Terry Robin-

son (tjr@sun.ac.za) and should include the names and contact details of 2-3 referees, a full CV and a covering letter that highlights the appropriateness of your expertise and why you are interested in the position.

Professor Terence J. Robinson Evolutionary Genomics Group Stellenbosch University Private Bag X1 Matieland 7602 South Africa E-mail: tjr@sun.ac.za Tel: +27 21 808 39 55 Fax: +27 21 808 24

"Robinson, TJ, Prof <tjr@sun.ac.za>

Stockholm BayesianBiodiversityAnalysis

POSTDOC in BAYESIAN BIODIVERSITY ANALYSIS

Our group develops methods for Bayesian phylogenetic and phylogenomic inference, with numerous applications across the life sciences. We focus on applications to problems in evolutionary biology, biogeography and biodiversity, but the software we produce, MrBayes (http://-/mrbayes.net) and RevBayes (http://revbayes.com), is widely used for other problem areas as well.

In this project, funded by the Swedish Research Council, we will focus on analyses of data from massively parallel sequencing efforts using RevBayes, our R-like computing environment. RevBayes is based on graphical model concepts, and is primarily intended for Bayesian analysis of complex evolutionary models. Within this general context, the successful candidate will have great freedom in formulating her or his project. The project can be focused on method development or empirical analyses, but should include a substantial computational component.

The ideal candidate should have a doctoral degree in evolutionary biology, bioinformatics, mathematics, statistics, or computer science. Regardless of your background, you should be familiar with biological research problems, be comfortable with mathematical and statistical reasoning, and have solid computational and programming skills. We will pay particular attention to scientific talent and potential.

The position is for two years with preferred starting date in the early fall of 2015. The Swedish Museum of Natural History (NRM) is one of the leading institutions of its kind in Europe. It combines a venerable tradition and unique collections with cutting-edge research in geology, paleontology and biology. The museum is close to Stockholm University, the Royal School of Engineering (KTH) and the Karolinska Institute. The Stockholm Phylogenomics Group (http://phylogenomics.se) engages research groups from all of these institutions. The Department of Bioinformatics and Genetics at NRM is focused on research in computational phylogenetics, population genetics and genomics. We run a DNA sequencing facility and host several national and international infrastructures.

The application should consist of a personal letter, a description of the planned research project (max 5 pages), and a CV. Mark your application with dnr 2.3.1-181-2015 and send it to rekrytering@nrm.se no later than May 29, 2015.

Fredrik Ronquist Professor, Dept. Bioinformatics and Genetics Swedish Museum of Natural History, Stockholm

email: fredrik.ronquist@nrm.se

Fredrik.Ronquist@nrm.se

Switzerland PhylogeneticCommunityAnalyses

Postdoctoral Research Fellowship in Phylogenetic Community Analyses

Job description You will analyze community data of plants and of plant-animal interactions, and you will explore phylogenetic, functional and taxonomic patterns and interaction networks. The data are collected in a European (Biodiversa) project, which fo-cuses on relationships and scale-dependencies of the different biodiversity levels in landscapes of varying intensity of agricultural land use. You will be part of a small international team and collaborate with European partners in this project. In addition, you will be involved in other projects on a range of niche- and trait-evolutionary and community phylogenetic topics that are currently investigated in the lab of Niklaus E. Zimmermann at WSL.

Requirements A PhD in biology, phylogenetics or environmental sciences is required. You are interested in questions regarding biodiversity, macroecology, and niche and trait evolution. Significant experience in phylogenetic community and comparative analyses, biodiversity and statistical modelling (in the R environment) are expected. You are flexible, highly motivated to work in an international team and you have excellent English skills.

Additional Information The Swiss Federal Institute for Forest, Snow and Landscape Research WSL (www.wsl.ch) is part of the ETH Domain. It employs approximately 500 people working on the sustainable use and protection of the terrestrial environment. If you have specific questions, please contact Dr. Niklaus E. Zimmermann by email (niklaus.zimmermann<at>wsl.ch) or consult the homepage (www.wsl.ch/staff/niklaus.zimmermann) for further information.

Application Instructions: Please online (https://-apply.refline.ch/273855/0492/index.html?cid=1) with your CV including your publication list, a cover letter that explains your motivation, a maximum two-page statement of your re-search experience and interest, and a list of three professional references.

- Full-time. 42 hours. - Normal Hiring Range: CHF 85?000.-/year (~85?000.-) - Grant funded for two years, extension possible if funding is secured.

Review of candidates will begin after May 27th, 2015

Niklaus E. Zimmermann Swiss Federal Research Institute WSL Dynamic Macroecology Group CH-8903 Birmensdorf, Switzerland

niklaus.zimmermann@wsl.ch

Sydney MolecularEvolutionPhylogenetics

Postdoc: Molecular evolution and/or phylogenetic methods

Description Fellowships are available to come and work with my group in Sydney, Australia, for up to 6 months (indeed, you could apply to work with any group in Australia).

If you are a recent PhD graduate, and have interests that overlap with our lab, please get in touch with an email that outlines your interests, along with a copy of your CV, to:

robert.lanfear@mq.edu.au

Specific projects include (but are not limited to):

1. Investigating the accumulation of somatic mutations in individual plants

2. Various projects examining the causes and consequences of variation in rates of molecular evolution among taxa (plants and animals)

3. Developing and applying methods for model selection and data filtering in phylogenetics

For more information on the research our lab, please visit:

www.robertlanfear.com/research The fellowships provide a good salary, as well as covering all travel and other costs. They are competitive, but success rates are quite high. Recent PhD graduates with at least one publication are competitive. More information on the fellowships themselves can be found here:

https://internationaleducation.gov.au/-endeavour%20program/scholarships-and-fellowships/-international-applicants/pages/international-applicants.aspx and the list of eligible countries can be found here:

https://internationaleducation.gov.au/-Endeavour%20program/Scholarships-and-Fellowships/Participating_countries/Pages/-Participating%20Countries%20and%20Regions.aspx
Yours,

Rob Lanfear

– Rob Lanfear ARC Future Fellow and Senior Lecturer, School of Biological Sciences, Macquarie University, Sydney

phone: +61 (0)2 9850 8204 www.robertlanfear.com
robert.lanfear@mq.edu.au

TulaneU Louisiana HostPathogenEvol

POSTDOCTORAL RESEARCH ASSOCIATE

Host-Pathogen Evolution/Amphibian Conservation

The Voyles lab is seeking a Postdoctoral Research Associate to participate in an NSF funded project investigating the evolution of virulence in an amphibian disease system. The successful applicant will also collaborate with project PIs at Tulane University, and UC Berkeley. Outcomes of this work will likely help shape conservation strategies for amphibians in the region.

The successful applicant will be primarily based in Panama. Potential projects may include (1) field studies focused on understanding infection patterns in amphibian communities at multiple sites in Western Panama, (2) laboratory infection experiments, and (3) analyses of host and pathogen genetic and immunological data.

Research experience in infectious disease, including field and laboratory skills, are expected, as are skills in data analysis and writing. Proficiency in conversational Spanish and prior experience leading field teams in tropical regions are preferred.

This is a two year position, with the extension to a second year being contingent upon satisfactory progress.

The position is available starting summer, 2015 (negotiable start date). Review of applications will begin May 1 2015 and continue until a suitable candidate is found.

To apply, please send (1) a cover letter, (2) CV, (3) statement of research interests/experiences, and (4) names and contact information for three references to Dr. Jamie Voyles (jvoyles@nmt.edu or jamie.voyles@gmail.com).

For more information about this and other research projects going on in our laboratories, please visit our websites at:

http://voyleslab.weebly.com/ http://tulane.edu/-sse/eebio/people/cori/ http://nature.berkeley.edu/-rosenblum/ Corinne L. Richards Zawacki, Ph.D. email:cori@tulane.edu

Ken and Ruth Arnold Early Career Professor in Science and Engineering Assistant Professor, Department of Ecology and Evolutionary Biology Tulane University, New Orleans, Louisiana

"At night I went out into the dark and saw a glimmering star and heard a frog and nature seemed to say, well do not these suffice?" - Ralph Waldo Emerson

Cori Zawacki <coririchards@gmail.com>

UAdelaide AncientHumanPopulationGenetics

ARC Postdoctoral Research Associate Human Evolutionary Genetics Australian Centre for Ancient DNA (ACAD), The University of Adelaide Salary: 1.0 FTE, Level A, AU$76,283-81,836 per annum plus up to 17 % Superannuation applies.

Project: Biomedical population genetics of ancient human DNA

A 3 year post-doctoral position is available on a project using bioinformatics techniques to analyse ancient human biomedical and genomic information, with a focus on the origins and spread of diseases. The position will head an internationally competitive research team working closely with Harvard, Max Planck Institutes, Sanger Centre and UCSD, to develop and apply field leading population genetics approaches. The aim of the program is to trace the evolution and spread of biomedically relevant markers through ancient populations and genomes, using existing and newly generated data. The position will work closely with the new ACAD-Australian National Data Service Online Ancient Genome Repository (OAGR) for ancient human genome and microbiome data, as well as population genetics specialists, archaeologists, and ancient DNA researchers from around the world.

The project is situated within the ACAD and will combine state state-of-the-art genetics, bioinformatics, and genomics tools, and is funded by the Australian Research Council (ARC) for a period of 3 years with immediate start. The project is embedded in an ARC Laureate FL140100260 Using ancient genomes and microbiomes to reconstruct human history to Prof. Alan Cooper.

The successful applicant will head a team that utilises anthropological and archaeological collections to generate paleogenomics data. While the position focuses on bioinformatics and population genetics analyses, there is scope for the generation of new ancient human data using the large collections of material available at ACAD and collaborators. S/he will develop and integrate analytical methods and pipelines for the analysis of large ancient genomic datasets, and co-supervise a group of postgraduate students in collaboration with overseas colleagues and the Universitys School of Mathematical Sciences.

Applicants should have completed a PhD in biomedical genetics, population genetics, bioinformatics, biostatistics, ancient DNA or any relevant discipline, and preferentially have a keen interest in human evolution, disease, and archaeology. The successful appointee will have evidence of strong oral and written communication and organisation skills, demonstrated abilities to publish in scientific journals, present research at international conferences/committees, but also to present research in a meaningful and appealing format to the public. The applicant is expected to be passionate about research, capable of working both independently and as part of a larger team, and have demonstrated leadership skills. Experience with postgraduate student supervision is desirable.

Enquires about the job specifications should be directed to Dr Laura Weyrich (laura.weyrich@adelaide.edu.au) or Prof Alan Cooper (alan.cooper@adelaide.edu.au). Interested applicants are encouraged to send a CV in-

cluding a cover letter detailing, background experience and motivation, and addressing the key selection criteria of the job aspects above. Note applicants are invited to formally apply through the University of Adelaides job listing page at http://www.adelaide.edu.au/-jobs/ . For more information about ACAD, check out (http://en.gravatar.com/acadadelaide) for links to Twitter, Facebook, YouTube, our blog, recent publications and our official website.

Prof. Alan Cooper, ARC Laureate Fellow

Darling Blg (DP 418), Rm 209b University of Adelaide North Terrace Campus South Australia 5005 Australia

Email: alan.cooper@adelaide.edu.au Ph: 61-8-8313-5950/3952 Fax: 61-8-8313-4364

http://en.gravatar.com/acadadelaide - blogs, YouTube, Twitter http://www.adelaide.edu.au/acad/ - Official Website

CRICOS Provider Number 00123M

alan.cooper@adelaide.edu.au

UBath Genomics Molecular Evolution

Postdoc: UBath.Genomics.Molecular.Evolution

We are recruiting a postdoc to work on a project focused on understanding the evolutionary processes shaping natural variation. The project integrates genome sequences from a large collection of naturally occurring strains of a social amoeba with high throughput phenotyping, with the ultimate goals of understanding the molecular basis of natural variation and the patterns of selection shaping underlying sequence variation. The postdoc will contribute primarily to genome reconstruction, association analyses (including both GWAS and candidate gene based approaches) and application of molecular evolution models to sequence data, but will also contribute to the generation of data in the initial phase of the project.

Candidates should have an appropriate background in evolutionary or statistical genetics (including bioinformatics). Skills related to the handling of large scale sequence data are essential. Some skills in molecular quantitative genetics and the analysis of molecular evolution are preferred but not required.

The successful candidate will be based in Prof Jason Wolf's Lab at the University of Bath, working in close collaboration with Prof Laurence Hurst (also in Bath), Prof Chris Thompson (Univ. of Manchester). The candidate will also work with collaborators at the Federal University of SÃ£o Carlos (Brazil).

The position is fixed-term of 36 months at Â£31,342 and is set to start at the end of May 2015, with later start dates subject to approval by the funding agency.

For further information and to apply please see www.bath.ac.uk/jobs/Vacancy.aspx?ref=SS3006 Note that there are additional positions associated with this project:

A Research Technician (also based in Bath) who will support all aspects of the project, including culturing of strains, performing phenotyping assays, the preparation of genomic DNA samples and the processing of data sets. This position is fixed-term of at least 24 months (possibly up to 30 months) and available to start as early as the end of May 2015, but later start dates are not a problem (as long as the start date is no later than October 2015)

For further information and to apply please see: https:/-/www.bath.ac.uk/jobs/Vacancy.aspx?ref=SS3028 A postdoc based in Manchester, who will focus on experimental validatation of the causal roles of natural genetic variants using cutting edge molecular and gene replacement techniques. This position is fixed-term of 36 months at Â£30,434 and is set to start at the end of May 2015, with later start dates subject to approval by the funding agency.

Application forms and further particulars can be obtained at: https://www.jobs.manchester.ac.uk/-displayjob.aspx?jobid=9511 Laurence D. Hurst Professor of Evolutionary Genetics Department of Biology and Biochemistry University of Bath Bath Somerset, UK BA2 7AY

Tel: +44 (0)1225 386424 Fax: +44 (0)1225 386779 Email: l.d.hurst@bath.ac.uk Website: http://-people.bath.ac.uk/bssldh/LaurenceDHurst/Home.html Laurence Hurst <hurst.laurence@googlemail.com>

UBritishColumbia EvolutionaryTheory

A postdoctoral position is available in the research group of Michael Doebeli at the University of British Columbia in beautiful Vancouver, Canada.

I am looking for an independent and creative theoretician who is interested in working in one or more of the following areas:

Evolution in high-dimensional phenotype spaces: trade-offs, frequency-dependence, and diversification

Modelling complex microbial ecosystems using a bottom-up approach based on metabolic interactions

Modelling multi-level selection, e.g. evolution of multicelluarity, cultural group selection

Applicants should have a proven track record of scientific publication.

Start date: July 1, 2015, or later Duration: initial appointment for 1 year, renewable Salary: 44K (CAD) p.a. + benefits

The postdoc will be be based in the Biodiversity Research Centre (http://www.biodiversity.ubc.ca), an exciting and highly interactive research community comprising many excellent scientists in ecology and evolution.

To apply, please send cv and 2-3 letters of recommendation to doebeli@zoology.ubc.ca.

Michael Doebeli

Michael Doebeli, PhD, FRSC Department of Zoology University of British Columbia 6270 University Boulevard Vancouver BC Canada V6T 1Z4

email: doebeli@zoology.ubc.ca phone: (604) 822-3326 fax: (604) 822-2416

http://www.zoology.ubc.ca/~doebeli Michael Doebeli <doebeli@zoology.ubc.ca>

UCalifornia Irvine Butterfly VisionTranscriptomics

Physiological genomics of vision and smell in butterflies UNIVERSITY OF CALIFORNIA, IRVINE

Postdoctoral Scholar

A NSF-funded postdoctoral scholar position is available in the laboratory of Dr. Adriana Briscoe at University of California, Irvine. Research in the Briscoe lab is aimed at understanding the molecular evolution of sensory systems (particularly color vision) in butterflies. The postdoctoral researcher will characterize the transcriptomes of sensory tissues across the Heliconius and/or Adelpha/Limenitis phylogeny and in related outgroup taxa using RNA-Sequencing of 1) adult compound eyes to identify gene networks involved in the evolution of novel photoreceptors and sexual dimorphisms in eye morphology and visual function, 2) adult antennae to identify novel olfactory receptors associated with sex-specific differences in behavior. The successful candidate will also be primarily responsible for the development of a Galaxy pipeline (collaboratively with Dr. Todd Oakley at UC Santa Barbara), which will facilitate the phylogenetically-informed annotation of chemosensory networks to complement an existing pipeline for eye-related genes.

Successful candidates will collaborate with a dynamic team of behaviorists, physiologists, and evolutionary biologists at UC Irvine and other institutions. Required qualifications include a recent Ph.D. (earned in 2010 or later) in molecular biology, biochemistry, or related fields. Desirable qualifications include expertise in bioinformatics, comparative genomics, molecular evolution and/or in qPCR and in preparation of libraries for Next-Generation sequencing, a strong publication record, excellent writing and communication skills, and a willingness to do field work (mainly to collect organisms for study). Experience with in situ hybridization would be useful but not essential. Duration of position is dependent upon performance (annual appointments, with potential for renewal), and salary will be commensurate with experience. Applications submitted by May 15, 2015 will be given full consideration, although applications will be reviewed until the position is filled.

Qualified candidates should submit curriculum vitae, a one-page statement of research interests, and names and contact information for three references to the following on-line recruitment URL:

https://recruit.ap.uci.edu/apply/JPF02793 For more information about this position contact Dr. Adriana Briscoe at abriscoe@uci.edu.

The University of California, Irvine is an Equal Opportunity/Affirmative Action Employer advancing inclusive excellence. All qualified applicants will receive consideration for employment without regard to race, color, religion, sex, national origin, disability, age, protected veteran status, or other protected categories covered by the UC nondiscrimination policy.

abriscoe@uci.edu

UChile HumanGenomics

We are seeking candidates for a Postdoctoral position in Genetics to study the demographic history of settlers of Patagonia. The postdoc will work in a genomics and bioinformatics laboratory and will have available microarray genotyping data and whole genome sequence data from modern and ancient DNA from Patagonia (Chile and Argentina). He/she will also be responsible for generating and analyzing new data. Travel opportunities to our collaborators laboratory, Carlos Bustamante < http://med.stanford.edu/bustamantelab/ > in Stanford University.

Requisites:

* PhD in Genetics, Evolution or related field obtained between January 1st 2012 and November 1st 2015. * A motivation letter * A recommendation letter from a direct supervisor * Writing fluency in English

Desired skills:

* Strong background in quantitative or population genetics * Bioinformatic skills at user level * Spanish or willingness to learn

Funding:

* Through a FONDECYT Postdoctoral fellowship < http://www.conicyt.cl/fondecyt/2015/04/08/-concurso-postdoctorado-2016/ > (Spanish). * Successful applicants will apply for funding with the sponsorship and assistance of the laboratory PI (application will be in English).

Deadline:

* *May 8 2015*

Postdoc start date:

* November 2015

Interested should inquiries and application material to Dr. Ricardo Verdugo (raverdugo@u.uchile.cl).

Ricardo A. Verdugo S., M.V., Ph.D. Assistant Professor Human Genetics Program, ICBM Faculty of Medicine, University of Chile Independencia 1027, Santiago, Chile Phone: +56 (2) 2978 9527 raverdugo@u.uchile.cl http://genomed.med.uchile.cl "Ricardo A. Verdugo" <raverdugo@u.uchile.cl>

UCollegeCork 5 EvolutionaryBehaviouralBiol

Up to 5 Research positions in Evolutionary Behavioural Ecology

[3]The evolutionary ecology of cognition across a heterogeneous landscape[2] (EVOECOCOG: ERC funded project)

Why do individuals vary in their cognitive abilities? EVOECOCOG takes the disciplines of cognition and evolutionary biology into a natural setting to answer this question. It aims to do this by investigating a variety of proximate causes and population-level consequences of individual cognitive variation using a great tit Parus major population. The project represents one of the first large-scale integrative studies of cognitive performance on any wild population.

Three objectives capture the project[1]s broad scope: 1) To characterise proximate causes of variation in cognitive and other associated traits, including personality, all of which can influence similar ecologically important behaviour. Quantitative genetic, social, parasite-mediated, and physiological causes will be explored. 2) To examine links between these traits, key functional behaviours and trade-offs, e.g., space use, niche specialization, predation, parental care and promiscuity; and 3) To examine the consequences of this variation for life histories, fitness, natural and sexual selection.

Dates: Application deadline is 1 June 2015. Interviews will be held initially by Skype within 2 weeks. Start dates are mid-July or as soon thereafter as possible.

For further information, please contact Prof. John L. Quinn at j.quinn@ucc.ie

University College Cork is one of Ireland[1]s largest and most successful universities. The research would be conducted in the School of BEES which consists of 20 faculty (including 3 holders of current ERC grants), ca. 20 postdocs and 50 PhD students across Zoology, Ecology, Plant Sciences and Geology. Cork is situated on the south coast of Ireland, 2.5 hours from Dublin,is served by an international airport, has a population of about 200,000, and is on the doorstep of some of the most beautiful coastline in Europe.

"Quinn. John" <J.Quinn@ucc.ie>

UCollege London PathogenEvolution

Postdoc position available in the lab of Richard Goldstein in the Division of Infection and Immunity at University College London (UCL), developing computational models to study the evolution of pathogens.

The post holder will carry out research in the area of computational molecular evolution, with particular interest in viral evolution. This will include development of new models for phylogenetic analysis, and the application of these models in a variety of biological contexts in order to generate understanding and insight, including of viral evolution and virus-host interactions.

Deadline for application is 4 May. The post is funded by the MRC and expires 31 March 2017. The post is potentially extendible depending on continuation of funding.

For details and to apply see https://atsv7.wcn.co.uk/search_engine/jobs.cgi?owner=5041178&ownertype=fair&jcode=1457831 – Professor Richard Goldstein Infection & Immunity UCL Cruciform Building 90 Gower Street London, WC1E 6BT +44 (0)20 3108 2206

r.goldstein@ucl.ac.uk

UdelosAndes TeachingEvolution

Universidad de los Andes - Teaching Postdoc Position

The Department of Biological Sciences (DCB) at the Universidad de los Andes (Bogotá, Colombia) seeks to fill 1-2 positions for teaching postdoctoral researchers. The selected candidates will serve as full-time visiting professors, at least one of which must start July 27th, 2015. Applicants must possess a Ph.D. before the starting date. Preferences will be given to candidates interested in developing or promoting new research perspectives within the DCB via collaborations with existing research laboratories (see http://cienciasbiologicas.uniandes.edu.co/).

The selected candidates should also be willing to mentor undergraduate and graduate students. Teaching responsibilities include 1-2 undergraduate non-majors courses in ecology or cellular biology (depending on the expertise of the postdoc and the Department's needs) per semester. The selected candidate may choose to offer or participate in additional courses in areas of his or her interest at the graduate level. Spanish fluency is required.

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 applicant's interest in this position and potential research topics to be pursued at Los Andes, and identifies potential advisors and collaborators within the DCB. Application materials should be submitted electronically by May 11, 2015 to the email address below.

Comité de Contrataciones Profesorales Departamento de Ciencias Biológicas 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 Ordoñez <ccadena@uniandes.edu.co>

UEdinburgh TelomereEvolution

*Post-doc available: **//*

*/Evolutionary ecology of life-long telomere dynamics in a wild mammal population/**at the University of Edinburgh**/

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*A postdoctoral position is available for 2.5 years in Dan Nussey's group at the University of Edinburgh investigating the evolutionary ecology and genetics of telomere dynamics in a wild Soay sheep population. *

Telomeres are repetitive DNA sequences that cap the ends of vertebrate chromosomes. They play at pivotal role in the maintenance of genomic integrity and regulation of senescence at a cellular level, and there is growing interest across disciplines in the utility of telomere length measured in blood cells as a biomarker of ageing and health.

The project, funded by BBSRC, is based on the long-

term study of Soay sheep on St Kilda and will utilise a large freezer bank of blood samples (>8000) collected since 1990 to measure telomere dynamics from birth to death for thousands of individuals, alongside other genetic, phenotypic, life history and fitness data collected as part of the study.

The post-doc will work closely with an established and experienced team in the laboratory to generate leukocyte telomere length (LTL) measurements from these blood samples. Their principal responsibility will be to analyse the data produced to address key questions for both evolutionary ecologists and telomere biologists, including: (1) To what degree early-life LTL versus lifelong changes in LTL drive population-level variation in LTL, (2) How do early-life environmental conditions and genes contribute to LTL variation, (3) How does natural selection act on LTL across the entire lifespan.

Contact Dan Nussey dan.nussey@ed.ac.uk or see http://nussey.bio.ed.ac.uk/ for more information Or search for job reference 033045 at https://www.vacancies.ed.ac.uk for application details.

– Dan Nussey

BBSRC David Phillips fellow & Reader in Evolutionary Ecology, Institute of Evolutionary Biology, University of Edinburgh, The Kings Buildings, West Mains Road, Edinburgh EH9 3JT

Tel: +44 (0)131 6505494 Email: dan.nussey@ed.ac.uk Website:http://nussey.bio.ed.ac.uk/ Dan Nussey <dan.nussey@ed.ac.uk>

UGraz Austria PDF PhD Cuckoldry

A PhD or PostDoc position in a 3-year project <Coping with cuckoldry> funded by the FWF (Austrian Science Fund) is available at the Institute of Zoology at the University of Graz, Austria, in the group of Prof. Kristina Sefc.

The project investigates cuckoldry in a cichlid fish with biparental brood care. The study species (Variabilichromis moorii, from Lake Tanganyika in Africa) has high levels of extra-pair paternity (Sefc et al. 2008, Mol. Ecol. 17, 2531-2543), and we now aim to understand why nest-holding males failed to evolve more efficient defenses against cuckoldry. The PhD/postdoc candidate will carry out field work, genetic analysis and behavioral experiments to answer questions about paternity, brood care, offspring recognition, mate choice and relatedness structure within the population.

We are looking for a highly motivated person with an MSc or PhD in a related discipline (e.g., zoology, behavioral ecology, evolutionary biology). Field work at Lake Tanganyika is an important part of the project (up to four trips are required); therefore, candidates experienced with aquatic field work are particularly encouraged to apply. Field work will require SCUBA diving in shallow (<10m) water. The project also includes a large amount of DNA genotyping (microsatellites) for paternity and relatedness analyses, such that experience with or affinity to DNA lab work is required. Behavioral work in the lab also involves fish stock management and the establishment of experimental designs. The candidate is expected to search, read and understand scientific literature, and to develop good skills in statistical data analysis and scientific writing.

Excellent written and oral communication skills in English, team skills, a sense of responsibility and the ability to take decisions (e.g. react to unforeseen conditions during field work) are required.

The successful candidate is expected to start between July 1 and September 1, 2015, and to participate in a field trip to Lake Tanganyika from mid-September to November. The gross salary per year (before tax) is approximately euro 49,500 (PostDoc) or euro 28,000 (PhD).

Graz is a lively city in the south of Austria, situated in a beautiful landscape offering manifold opportunities for outdoor activities. Friendly people, lots of sunshine and reasonable living expenses contribute to a high quality of life.

Please send your application including your motivation for the position, a detailed description of your experience (field work, genetic analysis, behavioral experiments), CV incl. photograph, publication list, and 2 (or more) referee contacts to kristina.sefc@uni-graz.at. Please indicate whether you apply as PhD or postdoctoral student. Send you application as soon as possible, but latest by April 23.

For further information, please contact me at kristina.sefc@uni-graz.at. General information about the University, the Institute of Zoology and the group can be found at http://www.uni-graz.at/en/, http://zoologie.uni-graz.at/en/, http://www.uni-graz.at/~sefck/ .

"Sefc, Kristina (kristina.sefc@uni-graz.at)" <kristina.sefc@uni-graz.at>

UIdaho 6 BiolModeling

Center for Modeling Complex Interactions The NIH-funded Center for Modeling Complex Interactions (CMCI) at the University of Idaho will create the intellectual, cultural, and physical environment to foster convergence in interdisciplinary biomedical research. The Center will address complex biomedical problems across all levels of biological organization, from biophysical to ecological, beginning with the study of viral co-infection. Co-infection is a common but understudied area of infectious disease. The focal point of CMCI is the Collaboratorium, a space and a culture for collaborative modeling. It will bring together faculty from both the empirical and modeling realms with postdoctoral scientists who reside in the Collaboratorium and devote full-time effort to collaborative modeling.

We currently have openings for four postdocs in the Collaboratorium and two in experimental laboratories:

1) epidemiological and biostatistical modeling (SP000473P) 2) transcriptomic and proteomic analysis and modeling (SP000470P) 3) deterministic and agent-based modeling (SP000472P) 4) molecular modeling of proteins (SP000471P) 5) pathogenesis of viral coinfection in mice(SP000474P) 6) molecular biology of viral coinfection in flies (SP000475P)

To apply, go to http://apptrkr.com/608848 and search by the posting number following each positon. Review of applications will begin May 18, 2015. Applications will be accepted until all positions are filled.

The University of Idaho is an equal opportunity and affirmative action employer. It is the policy of the regents that equal opportunity be afforded in education and employment to qualified persons regardless of race, color, national origin, religion, sex, age, disability, or status as a disabled veteran or Vietnam-era veteran. It is also the policy of the University of Idaho to not discriminate based on sexual orientation.

Contact Center for Modeling Complex Interactions: cmci@uidaho.edu or http://www.uidaho.edu/sci/cmci Philip Lagao <philip@jobelephant.com>

UKonstanz 2and5year ComparativeGenomics

Postdoc positions (2-years or 5-years) available in molecular evolution, comparative genomics and evo-devo at the University of Konstanz in Germany

The Zukunftskolleg at the University of Konstanz provides generous funding for two types of Postdoctoral fellowships. The funding for 2-year or 5-year fellowships is meant to support postdocs on their way towards academic independence. These fellowships also offer the opportunity to apply for significant internal funding for research expenses.

Zukunftskolleg Fellows need an academic sponsor and host laboratory. Zukunftskolleg Fellows should therefore propose research projects that fit with a particular host laboratory at the University of Konstanz and should be of collaborative and interdisciplinary nature.

Please visit https://www.zukunftskolleg.uni-konstanz.de/funding-programmes/fellowship/ for more information.

DEADLINE: May 18th 2015

Axel Meyers lab at the Department of Biology at the University of Konstanz welcomes applications from motivated Ph.D. biologists or postdocs who are interested in the fields of either molecular evolution, comparative genomics, and / or the evolution of developmental mechanisms. More specific information on our ongoing research projects can be found on the Meyer-Lab's www pages.

http://www.evolutionsbiologie.uni-konstanz.de The University of Konstanz is among the most highly ranked institutions in Germany and provide a lively and academically outstanding research environment. Konstanz is a lovely historic town located on Lake Constance on the southern German border to Switzerland.

Additional information can be obtained from: axel.meyer@uni- konstanz.de , phone: +49 (0) 7531 / 88 - 4163, fax + 49 (0) 7531 / 88 - 3018 or from our website: http://www.evolutionsbiologie.uni-konstanz.de . Applications should be received by the Zukunftskolleg before May18th, 2015.

Prof. Axel Meyer, Ph.D. Lehrstuhl f[1]r Zoologie und Evolutionsbiologie Department of Biology Building M, Room M806 University of Konstanz 78457 Konstanz

Germany

fon + 49 (0)7531 88 4163 fax + 49 (0)7531 88 3018

secretary: Ingrid.Bader@uni-konstanz.de tel. + 49 (0)7531 88 3069

www.evolutionsbiologie.uni-konstanz.de Axel Meyer <a.meyer@uni-konstanz.de>

ULausanne AmphibianSexChrom Evolution

Post doc: UNI-Lausanne, sex-chromosome evolution in amphibians

Sex-determination systems within the frog family Ranidae appears extramely dynamic, with sex chromosomes that differ between closely related species or even conspecific populations. However, data gathered so far suggest that transitions occur among a limited set of chromosome pairs (out of a total of 13), and that male heterogamety is mostly conserved despite the high turnover. We want to further investigate these patterns across the family, document the evolution of sex-linked genes recently involved in non-recombining regions, and ultimately understand the reasons for the high rate of turnover.

We have already collected samples of sexed adults and sibships from a series of species from different genera (Rana, Lithobates and Pelophylax), and developed a RADseq approach that allows us to identify sex chromosomes from these samples. The successful candidate will participate in the sampling effort to get additional species from the radiation, and take over the development and utilization of RADseq approaches in order to build sex-specific recombination maps, identify sex-linked markers, and map these markers to a reference genome. He/she will also have to analyze the patterns of transitions in a phylogenetic framework, and characterize patterns of X-Y differentiation. We expect candidates to have a solid background in evolutionary genomics and population genetics. Experience in RADseq or sequence capture and one or more scripting languages will be an advantage. The position is initially for one year with the possibility to renew for two more years.

You will join a team already active and experienced in the field of sex-chromosome evolution, presently largely focused on the model species Rana temporaria. The phylogeny of ranid frogs is well resolved, and the RADseq approach already well mastererd in our lab. We are now in the process of assembling a draft genome for Rana temporaria, and expect it to be fully available by the end of June. The Department of Ecology and Evolution is large and thriving, with many research groups active in evolutionary ecology. It provides excellent facilities for research and training (see http://www.unil.ch/dee/-). The Dorigny campus offers excellent facilities for molecular and evolutionary biology, including multiple Illumina sequencers and the Vital-IT high-performance computing cluster.

Applications including CV, publication list, research statement and addresses of references, should be sent by e-mail to nicolas.perrin@unil.ch. Applications received by Sunday May 3 will receive full consideration

Nicolas Perrin

Recent papers from our lab on sex-chromosome evolution

Rodrigues et al. 2015. Sex-chromosome differentiation and 'sex races' in the common frog (Rana temporaria). Proc. B 282: 20142726, DOI: 10.1098/rspb.2014.2726

Blaser et al. 2014. Sex-chromosome turnovers: the hot potato model. Am. Nat. 183: 140-146.

Dufresnes et al. 2014. Sex-chromosome differentiation parallels postglacial range expansion in European tree frogs (Hyla arborea). Evolution 68: 3445-3456.

Rodrigues et al. 2014. Geographic variation in sex-chromosome differentiation in the common frog (Rana temporaria). Mol. Ecol. 23: 3409-3418.

Blaser et al. 2013. Sex-chromosome turnover induced by deleterious mutation load. Evolution 67: 635-645.

Brelsford et al. 2013. Homologous sex chromosomes in three deeply divergent anuran species. Evolution 67: 2434-2440.

Rodrigues et al. 2013. Within-population polymorphism of sex-determination system in the common frog (Rana temporaria). JEB 26: 1569-1577.

Grossen et al. 2012. The evolution of XY recombination: sexually antagonistic selection versus deleterious mutation load. Evolution 66: 3155-3166

Guerrero et al. 2012. Cryptic recombination in the ever-young sex chromosomes of Hylid frogs. JEB 25: 1947-1954.

Grossen et al. 2011. Temperature-dependent turnovers in sex-determination mechanisms: a quantitative model. Evolution 65: 64-78.

Stoeck et al. 2011. Ever-young sex chromosomes in European tree frogs. PLoS Biol 9(5): e1001062.

Perrin Nicolas <Nicolas.Perrin@unil.ch>

"Beleza, Sandra (Dr.)" <sdsb1@leicester.ac.uk>

ULeicester HpyloriEvolution

Research Associate

College of Medicine, Biological Sciences and Psychology

Genetics

Salary Grade 7 - £32, 277 to £37,394 per annum

Open Ended Contract, subject to Fixed Term Funding. Funding is available from 1 July 2015 for up to 3 years

The Beleza lab at the Department of Genetics of the University of Leicester is seeking a highly motivated and qualified Post-doctoral scholar who is interested in playing a leading role in a large, collaborative project that aims to characterise the genomic variation and genomic ancestry of H. pylori isolated from infected individuals of the admixed population of Cape Verde, West Africa. Key aspects of the role are co-coordination of the sample collection in Cape Verde, application of basic microbiology methodologies, generation and analysis of whole-genome sequencing data from isolated strains.

The role will also include working with colleagues to generate and analyse high dense genotyping of the human hosts. The project aims to study host-pathogen co-evolution in the development of disease in an endemic admixed population. The post will be for 3 years with a proposed start date of the 1st of June 2015.

You will have a PhD in Molecular Genetics, Microbiology or related subject and have extensive experience in standard techniques of microbiology and molecular genetics. Additional computer programing skills will be considered an advantage. Applications should consist of an up-to-date CV as well as a cover letter including the applicants motives to apply and the contact details of two referees. Only complete applications will be considered. All applications should be sent before 27th May 2015.

Applications should be submitted to Dr Sandra Beleza (sdsb1@le.ac.uk), who can also provide additional information about the vacancy.

– Sandra Beleza, PhD Lecturer in Genetics University of Leicester Adrian Building University Road Leicester, LE1 7RH UK

Phone: +44 (0)116 294 4548 email: sdsb1@leicester.ac.uk; sbeleza@gmail.com

UMaryland EvolutionaryGenomics Mutation

Post Doctoral Position Available in the lab of Charlie Fenster, University of Maryland Collaborators: Stephen Wright (University of Toronto), Matt Rutter (College of Charleston), Detlef Weigel (Max Planck Institute, Tübingen).

We are seeking a postdoc to analyze the relationship between sequence and phenotype for Arabidopsis thaliana mutation accumulation lines. The postdoc is expected to be a key component in the integration of the various labs with a home base in the Fenster lab. Consequently there are incredible opportunities to collaborate with one of the world's most productive plant molecular labs (Weigel Lab), a leader in the intersection of genomics and evolution (Wright lab), and additional leaders in theoretical and evolutionary genetics and plant population ecology (J. Ågren Uppsala University, T. Lenormand CNRS Montpellier, and E. Imbert University of Montpellier). We also offer the opportunity to integrate research findings with undergraduate education and outreach to K-12 education (Rutter lab). The Fenster lab is diverse with interests and students spanning from plant floral evolution to evolutionary genetics.

The open postdoc position is an opportunity for the basic discovery of mutations. Specifically, we seek a postdoc that will use computational approaches to quantify the mutational origins of genetic variation at the sequence level to further our understanding of the role of mutation and selection as determinants of patterns of genetic variation at the within and among species levels. The postdoc will also have the opportunity to help set-up the field experiments to study de novo mutations in the Swedish and French sites.

The successful applicant may have a range of skills from evolutionary ecology to computational genomics. The successful applicant will therefore have sufficient quantitative skills and a predilection for quantitative approaches combined with a passion for evolutionary biology.

Preferred starting date is summer 2015. Salary is in the high $ 40's K, but also includes generous benefits.

Briefly, the role of mutation to evolutionary process depends on the rate and type of mutation and the

effects that the new mutations have on fitness. Yet how the effects of naturally occurring mutations both enable and shape the evolution of diversity remains largely unexplored. Quantifying and analyzing these parameters requires broad, integrative approaches. Recent conceptual and experimental advances now allow a more comprehensive treatment of the effects of mutations on evolutionary diversification. In particular, whole-genome sequencing is now so inexpensive that it is possible to directly confirm and define the action of mutation. The specific aims of the project are to analyze completely sequenced mutation accumulation lines in light of their phenotypes, including fitness, across a range of natural environments. In addition, there will be the opportunity to develop a web-based educational tool for undergraduates that will explore recent advances in the study of mutati on.

We expect rapid publications spanning the fields of genomics, bioinformatics, evolutionary modeling and with sequence and fitness data, the chance to discover new patterns with important evolutionary consequences.

If interested, please contact C. Fenster: Cfenster@umd.edu & cc Matt Rutter: RutterM@cofc.edu

Please include in one attached document a brief statement of interest, relevant skills, publication list and the names of at least two colleagues who can provide letters of reference.

References:

Ossowski, S , K. Schneeberger, J.L. Lucas-Lledo, N. Warthmann, R.M. Clark, R.G. Shaw, D. Weigel, and M. Lynch. 2010. The Rate and Molecular Spectrum of Spontaneous Mutations in Arabidopsis thaliana. Science 327: 92-94

Rutter, M. T., F. H. Shaw and C. B. Fenster. 2010. Spontaneous mutation parameters for Arabidopsis thaliana measured in the wild. Evolution, 64: 1825-1835.

Rutter, M., A. Roles, J. Conner, R. Shaw, F. Shaw, K. Schneeberger, S. Ossowski, D. Weigel and C. B. Fenster. 2012. Brief Communication: Fitness of Arabidopsis thaliana mutation accumulation lines whose spontaneous mutations are known. Evolution, 66: 2335-2339.

RutterM@cofc.edu

UMaryland TheorPopGen

The recently-established Johnson lab (http://-life.umd.edu/biology/plfj/) at the University of Maryland, College Park ("UMD") is recruiting a postdoctoral fellow in theoretical population genetics. Current topics of interest include: 1) developing methods to analyze intra-individual diversity of the T cell repertoire 2) developing methods to estimate contamination levels in ancient DNA 3) mutation rate evolution. Our group is entirely theoretical/computational but collaborates with experimentalists to focus our work on relevant biological problems. The new postdoc will be encouraged to work on established projects within the lab as well as develop independent research of mutual interest.

We are located within the Biology department, which contains strong empirical evolutionary biologists, and are affiliated with the Center for Bioinformatics and Computational Biology (http://www.cbcb.umd.edu/).

UMD is located on the subway line just outside of Washington, DC, which facilitates connections to nearby biological research institutions (e.g., NIH; Smithsonian). In addition to the world-class research opportunities, the DC area is a thriving and vibrant place to live with numerous cultural institutions (many with free admission!), three major airports (DCA, BWI, IAD), excellent public transportation, and a large community of young professionals.

Qualifications: - PhD in biology, computational biology, genetics, statistics or similar field. - strong mathematics / bioinformatics / biostatistics background - knowledge of at least one major programming language (C, C++, Java, Perl, Python, etc.) - experience with R - comfort working in a Linux/Unix environment

Interested individuals should write to Philip Johnson (plfj@umd.edu). To apply, email your cv, contact information for at least two references, and a cover letter outlining your research interests and relevant experience. Applications will be reviewed beginning May 1, 2015 and continue until the position is filled. Salary will be commensurate with experience and the position is benefits eligible.

The University of Maryland is an Equal Opportunity Employer Minorities and Women Are Encouraged to Apply

plfj@umd.edu

UMichigan PlantGenomics

A postdoctoral position is available in the Baucom lab located in the Ecology and Evolutionary Biology Department at the University of Michigan in Ann Arbor. Members of the lab work on projects that range from plant evolutionary ecology to plant population genetics and comparative genomics. For this postdoctoral position, we seek an enthusiastic and independent researcher to work on a USDA funded project addressing landscape genetic influences on gene flow between populations of the common morning glory, Ipomoea purpurea that exhibit variable levels of resistance to the herbicide RoundUp. The post-doctoral associate will be expected to integrate GIS information with patterns of neutral marker data to assess the influence of landscape features on the genetic connectedness of populations. Other projects and themes in the lab that may be of interest to the post-doctoral applicant are the following: herbicide resistance evolution, adaptation from standing versus novel genetic variation, and genomic basis of ecologically relevant traits. See (http://-/sites.lsa.umich.edu/baucom-lab) for more information about our ongoing projects.

The work requires basic molecular lab and field ecology experience, along with previous experience analyzing large datasets and basic command line capabilities. Funding for this position is available for 1 year with the possibility of extension to a 2nd year, contingent upon satisfactory progress. To apply, please send a single pdf with a cover letter, a CV, 1-2 representative publications, and names and contact information for 3 references to rsbaucom@umich.edu by May 1, 2015. Start date is flexible but preference will be given to candidates that can begin in August 2015. The University of Michigan is an equal opportunity/affirmative action employer.

Regina S Baucom Assistant Professor 2059 Kraus Natural Science Building 830 North University Dept of EEB University of Michigan Ann Arbor, MI 48109 (734) 647-8490 http://sites.lsa.umich.edu/baucom-lab rsbaucom@umich.edu

UNewHampshire BeeBiodiversity

The laboratory of Dr. Sandra Rehan is seeking a postdoc to conduct research on native bee biodiversity, pollination ecology and conservation. This 16-month position at the University of New Hampshire involves field collection of native bees in New England, taxonomic identification of local species, biodiversity and ecological modelling. We are seeking expertise in pollination biology, especially plant-pollinator networks and identification of native bees. Possibilities for extension of the initial 16-month appointment exist. Candidates should demonstrate a track record of publication; have strong organizational, written, and oral communication skills; and be able to work both independently and as part of a collaborative team. For further information, please feel free to contact Dr. Rehan (sandra.rehan@unh.edu; www.unhbeelab.com). Interested applicants should email a curriculum vitae, a 1-2 page statement of research interests that explicitly describes professional qualifications for this position, and contact information for three referees. Review of applications will begin April 10th. This position must commence on/before June 1st 2015.

Sandra Rehan, Assistant Professor Department of Biological Sciences University of New Hampshire 191 Rudman Hall, 46 College Road Durham, NH, USA 03824 office phone: (603) 862-5310 email: sandra.rehan@unh.edu website: www.unhbeelab.com sandra.rehan@gmail.com

UOslo FungalMolecularEvolution

Three year position as Postdoctoral Research Fellow in fungal molecular ecology available at the University of Oslo, Norway:

Soil fungi play important functional roles in forest ecosystems; while saprotrophic taxa are essential for organic matter decomposition; mycorrhizal root-associated fungi mediate the link between living plants and the belowground community. Recent studies indicate that plant-fungi interactions through mycorrhiza affect the efficiency of decomposition by fungi, and works as a main

driver for soil carbon sequestration in forest ecosystems. The goal of this project (MycoSoil), which is funded by the Norwegian Research Council, is to make fundamental progress in the understanding of the community ecology and functions of fungi in boreal forest soils, how they are organized spatiotemporally and how they influence on carbon sequestration processes. We will take advantage of linking the project to two long-term surveys of boreal forests. State-of-the-art DNA metabarcoding and metatranscriptomics approaches will be used to analyze spatiotemporal variation in the soil fungal communit ies.

For more information see http://uio.easycruit.com/vacancy/1352849/96323?iso=no or contact Håvard Kauserud at haavarka@ibv.uio.no

havard.kauserud@ibv.uio.no

UOttawa Bioinformatics

Postdoctoral Position in Bioinformatics - University of Ottawa The Corradi Lab is currently seeking a postdoctoral fellow in Bioinformatics to work on projects related to 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. Website: http://corradilab.weebly.com/ The position is initially funded for one year, with the possibility of renewal for up to three years, depending on performance. The candidate is expected to work on two ongoing lab projects:

1) Populations genomics of global samples of the bee-pathogen Nosema ceranae

The recent decline in global populations of honey-bees has been attributed to a many factors, including infections from the microsporidian pathogen Nosema ceranae. Despite the potential threat that this parasite may have on global bee populations, the basic biology of this species is not well understood.

The present project aims to increase our knowledge of the N. ceranaeÂÂs biology by exploring the extent, nature and function of genome diversity that exist both within and between dozens of parasite samples isolated globally (i.e. Spain, France, Turkey, Thailand, USA..etcÂÂ').

2) Population genomics of global isolates of the model plant symbiont, Rhizophagus irregularis

The Arbuscular Mycorrhizal Fungi (AMF) are ubiquitous plant symbionts that improve the ability of roots to uptake nutrients from soil and provide protection against plant pathogens. These organisms are intriguing as they harbor many nuclei within one cytoplasm throughout their entire life cycle. The genetic organization of these nuclei has been debated for years, but recent genome analyses in our lab are providing essential insights to this debate.

The proposed project aims to increase our knowledge of biology and evolution of these curious fungi and critical symbionts by investigating the genome diversity within and across different strains of the model AMF R. irregularis sampled globally.

For specific enquiries please contactDr. Nicolas Corradi (ncorradi@uottawa.ca).

Applicants are expected to have a strong background in either comparative genomics or populations genomics. Experience in either population genetics, environmental genomics, metagenomics, or ab-initio gene annotation and programming will be seen as an asset for the final selection of the candidate. Training in bioinformatics (Perl, Python, or R) is desired.

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. The position opens immediately, and evaluation of applications 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 CanadaÂÂs 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:

Pelin A., Selman M., Laurent Farinelli, Aris-Brosou S. and N. Corradi. 2015. Genome analyses suggest the presence of polyploidy and recent human-driven expansions in eight global populations of the honeybee pathogen Nosema ceranae. Environmental Microbiology

Ropars J. and N. Corradi. 2015. Heterokaryotic vs Homokaryotic Mycelium in the Arbuscular Mycorrhizal Fungi: Different Techniques, Different Results? New Phytologist

Corradi, N. 2015. Microsporidians: Intracellular Para-

sites Shaped by Gene Loss and Horizontal Gene Transfer. Annual Review of Microbiology

Riley R., Charron P., Idnurm A., Farinelli F., Yolande D. , Martin F. and N. Corradi. 2014. Extreme diversification of the mating typeÂChighÂ©\mobility group (MATAÂ©\HMG) gene family in a plantÂ©\associated arbuscular mycorrhizal fungus. New Phytologist

Tisserant E., Malbreil M. et al. 2013. Genome of an arbuscular mycorrhizal fungus provides insight into the oldest plant symbiosis. PNAS

Nicolas Corradi Professeur AgrÂÂgÂÂ / Associate Professor Boursier de l'Institut canadien en recherches avancÂÂes / Fellow of the Canadian Institute for Advanced Research UniversitÂÂ d'Ottawa / University of Ottawa DÂÂpartement 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

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UPittsburgh 2 PlantEvolution

Two Postdocs in Plant Evolution & Ecology at the University of Pittsburgh

Seeking two Postdoctoral fellows to join a collaborative project examining functional, population genetic and ecological mechanisms underlying success of polyploid plants.

The work aims to predict the effect of whole genome duplication on ecological and evolutionary responses to environmental change. The postdocs will identify the ecological, population genetic and genomic factors that underlie functional trait (e.g., phenotypic plasticity in repose to climate, tolerance of drought and freeze) variation, ecological amplitude and gene expression diversity using the wild strawberry (Fragaria) as a model system (see Liston et al 2014. AJB101:1686-1699; Johnson et al 2014 Bot J Linn Soc 176:99-114). The specific goals are to 1) characterize functional responses to climate and how they vary with natural variation in ploidy, with experimental hybridization and whole genome duplication, 2) analyze gene expression (transcriptomes) and physiological traits of natural and synthetic polyploids and their diploid progenitors in the greenhouse and common gardens at climatically diverse sites, 3) use NGS of target-captured sequence from natural populations of plants to identify patterns of genetic diversity and signatures of selection, reconstruct phylogenetic relationships and generate high density linkage maps (Tennesson et al 2014 GBE 6:3295-3313).

Postdoc candidates are sought with expertise in one of two areas (with ample opportunities for cross training between them): 1) Population genetic, comparative genomics, transcriptome analysis to address ecological or evolutionary questions 2) Population, physiological or functional plant ecology Candidates interested in a combination of field work and genomic work especially encouraged to apply.

Responsibilities will include the establishment and monitoring of experiments in the field and under controlled conditions in the lab, collection and analysis of population genetic/genomic, phenotypic and physiological data, and the preparation of manuscripts for publication. Ability to travel between field sites in Oregon and laboratory in Pennsylvania is required.

In addition to cross training, the project affords opportunities for international travel and training as part of an US-China international research collaboration, and to design and implement additional allied projects tailored to the skills and interests of the postdoc.

The postdoc position is for two years, renewable for additional years. Start date is negotiable, but June 2015 is preferred.

The project is collaboration among the labs of Dr. Tia-Lynn Ashman, Department of Biological Sciences at the University of Pittsburgh and Dr. Aaron Liston, Department of Botany and Plant Pathology, and Dr. Richard Cronn US Forest Service at Oregon State University.

TO APPLY: Please send a CV and a description of your experience and interests as relevant to the position to tia1@pitt.edu, along with the names and contact information for three referees. In a covering letter clearly highlight skills and experience related to key responsibilities. Informal enquiries are also welcome!

Application materials will be reviewed as they are received, until positions are filled.

Dr. Tia-Lynn Ashman Professor Department of Biological Sciences University of Pittsburgh Pittsburgh, PA 15260-3929 412-624-0984 http://www.pitt.edu/~tia1/ "Ashman, Tia-Lynn" <tia1@pitt.edu>

UTuebingen 2 FishEvolution

Two positions for a Postdoctoral Academic Associate in marine visual ecology

The Animal Evolutionary Ecology unit studies the evolution of mechanisms used by marine fish to modify ambient light by fluorescence or reflective structures. We study the adaptive function and underlying mechanisms of these processes using state-of-the-art spectrometry. Our focus is on co-evolutionary interactions between light-radiating fish species and the optical properties of their prey and predators as well as counter-adaptations in the latter. We have >150 saltwater tanks in 4 rooms with controlled light conditions for individual performance assessment in dedicated tasks.

The successful candidate has a PhD in any or all of the following: Visual ecology, comparative analyses, theoretical and empirical analysis of light in natural environments, animal pigmentation, colour vision, bio-optics or neuroanatomy. A good background in statistics and experimental design is required. She/he is expected to develop a high-profile research programme, teach in marine/visual ecology and supervise students at the BSc, MSc and PhD level (120 h/year). Teaching is in English. Experience with diving is an asset.

Formal employment procedures will be carried out by the Universitys Central Administration. The position is fulltime and limited to three years, with optional prolongation. The pay grade classification E13 refers to the German federal public service scale (TV-L).

Disabled candidates will be given preference over other equally qualified applicants. The University seeks to raise the number of women in research and teaching and therefore urges qualified women to apply.

Please send a single PDF to office.michiels@biologie.uni-tuebingen.de including a motivation letter as well as a full CV. Please include details on research interests and accomplishments, teaching experience, external funding plus names and email addresses of at least two referees. Screening will commence on 15 May 2015, and will continue until suitable candidates have been identified. Earliest appointment is 1 July 2015.

Prof. Dr. N. Michiels, University of T[1]bingen, Department of Biology, Institute of Evolution and Ecology, Auf der Morgenstelle 28, 72076 T[1]bingen, Germany (nico.michiels@uni-tuebingen.de).

Faculty of Science Department of Biology Institute of Evolution and Ecology Animal Evolutionary Ecology

Nico Michiels <nico.michiels@uni-tuebingen.de>

UVirginia PlantEcologicalGenetics

The Department of Biology at the University of Virginia invites applications for a postdoctoral Research Associate position in the lab of Dr. Laura Galloway. The position is supported by an NSF-funded project to explore the relationship between biogeography and mating system evolution in American bellflower (Campanulastrum americanum).

Mating systems are evolutionarily labile and variation is often explained by hypotheses focusing on the context-dependent benefits of selfing (e.g. reproductive assurance). However, mating system evolution may be driven by historical changes in genetic load. In particular, colonization from glacial refugia to current distributions often entailed bottlenecks and small population sizes that shape population genetic structure and hence potential for mating system evolution. Our goal is to integrate studies of biogeography and mating system using Campanulastrum americanum, a North American herb in which preliminary data indicate reduced inbreeding depression and greater autogamy in sites where phylogeographic data suggest recent colonization.

The Research Associate will work with the PI, our collaborator Jeremiah Busch (Washington State Univ), and lab personnel to design and lead research in the lab and field. The Research Associate will conduct greenhouse studies of genetic load and mechanisms of autogamy, field studies of factors that underlie pollen limitation, estimate population selfing rate and interact with collaborators determining population genetic structure. The position also involves data management and dissemination, preparing manuscripts, and mentoring graduate and undergraduate students. The ideal candidate will enjoy working both in a team and independently, and may use the appointment to develop and pursue additional related studies. Finally, this position will coordinate outreach activities at Mountain Lake Biological Station and an Environmental Studies Academy at a local high school.

Demonstrated expertise in ecological genetics including field and greenhouse work and strong written and oral communication skills are required. Experience in evolutionary genetics is desirable.

The completion of a PhD degree in Biology or related field by the appointment start date is required. Preferred appointment start date is Summer 2015. This is a two-year appointment; the appointment may be renewed for an additional year, contingent upon availability of funds and satisfactory performance.

To apply, please submit a candidate profile through Jobs@UVA (https://jobs.virginia.edu) and electronically attach: curriculum vitae with list of publications, a cover letter that summarizes research interests and professional goals, and contact information for three (3) references; search on posting number 0616239.

Review of applications will begin May 9, 2015; however, the position will remain open until filled.

Questions regarding this position should be directed to: Dr. Laura Galloway (lgalloway@virginia.edu)

Questions regarding the Candidate Profile process or Jobs@UVA should be directed to: Rich Haverstrom (rkh6j@virginia.edu)

The University will perform background checks on all new hires prior to making a final offer of employment.

The University of Virginia is an Equal Opportunity/Affirmative Action Employer. Women, minorities, veterans and persons with disabilities are encouraged to apply.

lg8b@eservices.virginia.edu

UWashington EvolutionaryGeneticsAging

The Promislow lab (http://www.promislowlab.org) at the University of Washington in Seattle is seeking an enthusiastic, independent postdoctoral researcher to work on an NIH-funded project on the systems biology of aging in Drosophila. We are interested in understanding the role of genomic and metabolomic network structure on aging. The long-term goal of our lab is to better understand proximate and evolutionary causes and consequences of aging in natural populations.

The successful applicant will have the opportunity carry out both empirical and computational studies. This project on the biology of aging in Drosophila integrates population genetics, molecular genetics, genomics, metabolomics, demography, and network analysis. The ideal candidate will have experience in one or more of these fields.

The position is initially available for two years, and can be extended for additional years, but the University of Washington policy is to offer a one year appointment with subsequent renewals. Start date is flexible, though ideally in the Fall or Winter of 2015.

Applications should be emailed by May 15, 2015 to Daniel Promislow (promislo@uw.edu). Applicants are requested to send a single PDF file that includes a cover letter including names and contact information of three references, a CV and one or two representative publications.

The University of Washington is an affirmative action, equal opportunity employer. The University is building a culturally diverse faculty and staff and strongly encourages applications from women, minorities, individuals with disabilities and covered veterans.

Daniel Promislow <promislo@u.washington.edu>

UZurich HumanLifeHistoryEvolution

An 18-month postdoc position funded by the Swiss National Science Foundation is available in my group at the University of Zurich on "The Evolution and Genetics of Life-Histories over Three Centuries of Human Civilisation".

In this project you will use a unique genealogical dataset, covering three centuries and including thousands of individuals, to investigate how human life-histories are shaped by genes, culture and the environment. Combining ideas and techniques from biology, sociology and history, you will provide new insights into life as we know it.

This project requires someone who is independent and creative, and who has a highly quantitative and evolutionary mind-set. The ideal candidate furthermore has experience with the handling and analysis of large individual-based datasets, (quantitative genetic) mixed models and has excellent R programming skills. While some knowledge of the German language would be an advantage, it is not essential.

Our group works together closely with several other groups within our institute (www.ieu.uzh.ch), which makes for a stimulating and social working environment. The institute is very international and the working language is English.

Although the earliest possible starting date is June 1 2015, the actual starting date is negotiable.

Zurich consistently ranks amongst the cities with the highest quality of life. While it offers all the pleasures of living in a bigger city, thanks to its central location and excellent public transport system, it is easy to get out of the city and head for the mountains.

Applications should include 1) a cover letter, including a brief description of what you have to offer to the project and our group, and what you hope to get back in return, 2) a detailed curriculum vitae and 3) the contact details of three references. This should be sent as a single pdf file to erik.postma@ieu.uzh.ch

Review of applications starts on 27 April 2015, but candidates are considered until the position is filled.

If you have any questions, don't hesitate to contact me (erik.postma@ieu.uzh.ch), or visit www.erikpostma.net . – Erik Postma

Institute of Evolutionary Biology and Environmental Studies University of Zürich-Irchel Winterthurerstrasse 190 CH-8057 Zürich Switzerland

Phone: +41 (0)44 635 49 73 Fax: +41 (0)44 635 68 18 Skype: erik_postma

e-mail: erik.postma@ieu.uzh.ch

website: www.erikpostma.net

erik.postma@ieu.uzh.ch

VirginiaTech MolecularEvolution

An NSF-funded postdoctoral position is available in the lab of Dr. Joel McGlothlin in the Department of Biological Sciences at Virginia Tech. The successful candidate will collaborate with Dr. McGlothlin on a project investigating the evolution of voltage-gated sodium channels across birds and reptiles. The project will use DNA target enrichment to capture and sequence the sodium-channel gene family in a wide variety of species in order to characterize the evolutionary history of resistance to tetrodotoxin and other prey defenses. The postdoc will be responsible for both bioinformatic analyses of existing genomes and the generation and analysis of new sequences. The ideal candidate will possess both laboratory skills in molecular evolutionary genetics and experience mining and analyzing large genetic datasets.

Minimum qualifications include a Ph.D. (completed by July 2015) in biology, ecology and evolutionary biology, or a related field; strong oral and written communication skills; the ability to work independently and as part of a research group; and a demonstrated ability to efficiently produce strong peer-reviewed publications. Candidates with a background in molecular evolution or bioinformatics will be given preference.

Interested candidates should submit a curriculum vitae and statement of interest upon applying online at https://listings.jobs.vt.edu/postings/56245. Two letters of recommendation should be sent via email to joelmcg@vt.edu. Review of applications will begin June 1, 2015.

Virginia Tech does not discriminate against employees, students, or applicants on the basis of age, color, disability, gender, gender identity, gender expression, national origin, political affiliation, race, religion, sexual orientation, genetic information, veteran status, or any other basis protected by law. For inquiries regarding non-discrimination policies, contact the executive director for Equity and Access at 540-231-8771 or Virginia Tech, North End Center, Suite 2300 (0318), 300 Turner St. NW, Blacksburg, VA 24061. If you are an individual with a disability and desire accommodation please contact the hiring department.

Additional information: McGlothlin lab: http://-www.faculty.biol.vt.edu/mcglothlin Application link: https://listings.jobs.vt.edu/postings/56245 Biological Sciences at VT: http://www.biol.vt.edu/ Ecology, Evolution, and Behavior at VT: http://www.biol.vt.edu/-eeb/index.html Joel W. McGlothlin Virginia Tech, Dept. of Biological Sciences Derring Hall 2125, 1405 Perry St. Blacksburg, VA 24061 http://www.faculty.biol.vt.edu/-mcglothlin Email: joelmcg@vt.edu Phone: (540) 231-0046 Office: Derring Hall 4002

joelmcg@vt.edu

Wageningen PhDorPDF ExperimentalEvolution

Project: Within the collaborative project "Interrogating bacterial social interactions in droplets" (funded by Human Frontiers in Science Program), a position is available for a PhD student or postdoc in the Laboratory of Genetics at Wageningen University. The student/postdoc will use novel millifluidic technology to test for bacterial social interactions mediated by the

enzyme TEM beta-lactamase. This enzyme protects against beta-lactam antibiotics and functions in the periplasmic space, from where it may leak out of the cell. We have recently used this enzyme as an experimental model for adaptation to novel beta-lactams in in vitro evolution experiments (e.g. Salverda et al. 2011 PLoS Genet. 7: e10011321; Schenk et al. 2012 PLoS Genet. 8: e1002783; Schenk et al. 2015 Evol. Appl. 8: 248-260). In the present project, we want to extend our knowledge of the fitness consequences for producers and non-producers of this enzyme. This will be done by introducing bacteria in many parallel 100-nL droplets and monitoring the population-dynamic and evolutionary consequences of enzyme production. The student/postdoc will be part of an international consortium, involving two microbial experimental evolutionists (Paul Rainey at Massey University, New Zealand, and Arjan de Visser at Wageningen University, The Netherlands), a colloid-chemist (Jérôme Bibette at ESPCI, France) and a theoretical biophysicist (Naama Brenner at Technion, Israel).

Profile: We seek a highly motivated person with a strong background in bacterial genetics and preferably experience with micro/millifluidics. Experience with microbial and molecular lab techniques are an absolute requirement, experience with millifluidics, handling large data sets and evolutionary theory are important benefits. The selected person will be initially appointed for 1 year, after which a "go/no go" decision will be taken on extension to a total of 4 years (PhD student) or 3 years (postdoc). Salary will be according to the Dutch salary scales for PhD students and postdocs taking experience into account. The project can start as soon as we have found a suitable candidate, but no later than 1 December 2015.

Applications: Enquiries and applications (including CV, letter explaining motivation and suitability for the position, and names and contact info of two references) should be sent before 1 June 2015 to Arjan de Visser (Arjan.devisser@wur.nl).

Prof. Arjan de Visser Laboratory of Genetics Wageningen University Droevendaalsesteeg 1 6708PB Wageningen The Netherlands P: + 31 317 483144 M: Arjan.devisser@wur.nl W: http://www.wageningenur.nl/-en/Persons/dr.-JAGM-Arjan-de-Visser.htm "Visser, Arjan de" <arjan.devisser@wur.nl>

WashingtonStateU EvolEcologyInsectPlantInteract

POSTDOC: Genomic ecology/evolution of insect-induced phenotypes

A postdoctoral position is available in the Nabity Lab (www.nabitylab.org) at Washington State University in Pullman, WA, where we focus on understanding insect-induced plant phenotypes using eco-physiological and genomic assessment of both plants and insects. The ideal candidate must have earned a PhD in plant biology, entomology, or related subjects in the past 5 years. The candidate should also possess a strong interest in evolutionary ecology or genetics and computational/bioinformatic experience with sequence data. The successful candidate will be expected to perform field and lab-based experiments, conduct/learn bioinformatics analyses, and work well with students. The position is available for up to 2 years, depending on performance, with a preferred start date of August/September 2015 (actual start date is flexible). Research will focus on aphid-like phylloxerids, their modes of plant manipulation, and the evolution of gall induction, but independent research in line with the lab goals will be encouraged. Please send a CV, a description of research interests, and contact information for 3 references by email to Dr. Paul Nabity (paul.nabity@wsu.edu) by June 1, 2015.

Dr Paul D. Nabity, Assistant Professor Dept. of Entomology Washington State University http://-www.nabitylab.org paul.nabity@wsu.edu

WorkshopsCourses

Alaska AnimalBehavior Jun10-14 TravelAward

Announcement: NSF Workshop and Symposium at 2015 Animal Behavior Society Meeting

At the 2015 Animal Behavior Society Meeting, held in Anchorage, AK June 10-14, ABS and NSF will support a symposium and workshop titled, 'It's about time: Understanding temporal variation in behavior.'

Many aspects of animal behavior involve change over time. If researchers do not consider time, they miss a number of functionally important processes. The general importance of timing in animal behavior is widely appreciated, but often not explicitly addressed. Furthermore, researchers who do explicitly address temporal variation do so in distinctly different ways. By bringing together researchers from diverse fields of study, the symposium and workshop will:

1. Outline important unresolved temporal issues in animal behavior, 2. Facilitate integration among fields that explicitly study temporal variation in behavior and those that are impacted by temporal variation, 3. Arm researchers with tools to experimentally test and analyze temporal patterns of behavior, 4. Instigate collaborations among researchers, with a particular focus on the professional development of early-career researchers, 5. Generate an overview paper co-authored by all participants, and 6. Produce novel research plans for competitive grant proposals.

The National Science Foundation is funding awards of $700 to support travel costs for researchers to attend the symposium and participate in the workshop. Researchers from underrepresented groups and early-career researchers are particularly encouraged to apply. To apply, send a CV and brief cover letter to Andy Dosmann (dosmann1@stanford.edu) describing how your research interests are relevant to the meeting, why you want to attend the meeting, and what you hope to gain from it. To ensure consideration, send materials by April 15, 2015. Please forward to anyone that might be interested in participating.

For additional information on the workshop and symposium, email dosmann1@stanford.edu. For general information on the ABS Meeting, visit www.animalbehaviorsociety.org/2015 Andrew John Dosmann <dosmann1@stanford.edu>

AMUPoznan Poland Bioinformatics Jul6-10

Category: Course Topic: AMUPoznan.Poland.Bioinformatics.RNA.July6-10

Dear colleagues,

We are extremely happy to announce 11th edition of Poznan Summer School of Bioinformatics. This meeting takes place at Adam Mickiewicz University in Poznan (Poland) from 6th to 10th July 2015.

This year's course will cover modern approaches to RNA analyses, including subjects like:

1. Introduction to RNA biology 2. Applications of next-generation sequencing in RNA studies 3. Transcriptome sequencing, assembly and gene expression estimation 4. Identification and analysis of microRNAs and other small RNAs 5. long non-coding RNAs 6. Secondary and tertiary structures of RNAs

The course is suitable both for beginners and for those who already have some basic knowledge in computational biology and find it necessary and interesting to learn more about bioinformatic applications in RNA studies. Our school consists of lectures and hands-on - this combination should fit best your needs as you have a chance to try out the discussed methods yourself.

For further information please visit our website: http://-/bioinformatics-school.pl Please forward this announcement to anyone who might be interested.

Best regards, PSSB Organizing Committee Contact: genomics@amu.edu.pl

Bioinfo School <genomics@amu.edu.pl>

Barcelona HistoricalBiogeography Jun15-19

Dear colleagues,

This is the last call for the course "HISTORICAL BIOGEOGRAPHY: FUNDAMENTALS AND APPLICATIONS", June 15-19, 2015.

INSTRUCTORS: Dr. Lone Aagesen (IBODA, CONICET, Argentina) and Dr. Claudia A. Szumik (Miguel Lillo Foundation, CONICET, Argentina).

PLACE: Facilities of the Centre of Restauració i Interpretació Paleontologica, Els Hostalets de Pierola, Barcelona (Spain).

WEBPAGE: http://www.transmittingscience.org/-courses/biog/historic-biogeography/ This course provides basic knowledge on selected theoretical and methodological problems of historical biogeography. We aim to provide the practical skills to enable the students to carry out empirical biographical analyses. A considerable part of the course is therefore allocated to practical problems as well as to the use of computer programs specifically developed for biogeography analyses.

Organized by: Transmitting Science, the Institut Catalá de Paleontologia Miquel Crusafont and the Centre de Restauració i Interpretació Paleontologica de Els Hostalets de Pierola.

For more information you can write to courses@transmittingscience.org

Please feel free to distribute this information between your colleagues if you consider it appropriate.

With best regards

Soledad De Esteban Trivigno Transmitting Science www.transmittingscience.org Soledad De Esteban Trivigno <soledad.esteban@transmittingscience.org>

Barcelona PopGeneticsR Oct5-9

Dear colleagues,

Registration is open for the workshop "Exploratory Methods for Population Genetics Using R", October 5-9, 2015. Instructors: Dr . Emmanuel Paradis [(Institut de Recherche pour le Développement, France) and Dr. Thibaut Jombart (Imperial College London, UK).

PLACE: Facilities of the Centre de Restauració i Interpretació Paleontologic, Els Hostalets de Pierola, Barcelona (Spain).

COURSE WEBPAGE: http://-www.transmittingscience.org/courses/stats/applied-r-for-bio/ This course is for post-graduate students and researchers who want to acquire knowledge on the analysis of population genetic data using R. The topics covered will include basic concepts in population genetics (descriptive statistics, allele frequencies, graphical exploration of data, linkage disequilibrium), the classical analysis of temporal and spatial structure (Fst and its variants -Gst, D, ...-, AMOVA, haplotype networks, mismatch distribution), and some advanced topics such as multivariate analyses and the coalescent. How to handle and manipulate variant calling format (VCF) files, which are becoming the standard for storing large-scale population genetic data from NGS technologies, will also be covered.

The objectives of the course are: (i) to learn the theoretical and practical bases of population genetics, (ii) to know how to choose a strategy of population genetic analysis, (iii) to be able to handle the appropriate tools for analysis of population genetic data, from the simplest to the most advanced ones.

This course is co-organized by Transmitting Science,

the Institut Catalá de Paleontologia M. Crusafont and the Centre de Restauració i Interpretació Paleontologic. Places are limited and will be covered by strict registration order.

Please feel free to distribute this information between your colleagues if you consider it appropriate.

With best regards

Soledad De Esteban-Trivigno, Ph.D. Course Director courses@transmittingscience.org Transmitting Science < http://www.transmittingscience.org/ >

soledad.esteban@transmittingscience.org

FridayHarbor ComparativeEmbrylogy Jun15-Jul17

Hello,

There are still spots open in the Comparative Invertebrate Embryology course at the Friday Harbor Labs (June 15 to July 17, 2015). It's a great course for anyone interested in the evolution of development, animal evolution, developmental mechanisms, life histories, or anything else involving early animal life stages. The Friday Harbor Labs is also a wonderful place to experience: not only does it have a truly amazing diversity of organisms, but it is in a beautiful location, and provides opportunities to interact with a broad community of biologists from all over.

Please see http://depts.washington.edu/fhl/-studentSummer2015.html#SumA-4 for the course description.

Thanks for taking a look.

–Mickey

Michelangelo von Dassow <mvondass@gmail.com>

Glasgow BayesianModeling Aug26-Oct31

Applied Bayesian modeling for ecologists and epidemiologists (statistics course)

This 6 day course will be held at SCENE (Scottish Centre for Ecology and the Natural Environment), Glasgow, United Kingdom from August 26th - 31st October 2015

The course is being delivered by Dr. Matt Denwood (University of Copenhagen) and Prof. Jason Matthiopoulos (University of Glasgow)

This application-driven course will provide a founding in the basic theory & practice of Bayesian statistics, with a focus on MCMC modeling for ecological & epidemiological problems. Starting from a refresher on probability & likelihood, the course will take students all the way to cutting-edge applications such as state-space population modeling & spatial point-process modeling. By the end of the week, you should have a basic understanding of how common MCMC samplers work and how to program them, and have practical experience with the BUGS language for common ecological and epidemiological models. The experience gained will be a sufficient foundation enabling you to understand current papers using Bayesian methods, carry out simple Bayesian analyses on your own data and springboard into more elaborate applications such as dynamical, spatial and hierarchical modeling.

Cost is Â£585 for the 6 days including lunches and refreshments or Â£765 for an all-inclusive option which includes the addition of accommodation, breakfast, lunch, dinner and refreshments.

For further details or questions or to register please email oliverhooker@prstatistics.co.uk or visit www.prstatistics.co.uk Please feel free to distribute this material among colleagues if you think it is suitable

Course timetable: Day 1: Revision of likelihoods Probability & likelihood - Conditional, joint & total probability, independence, Baye's law - Probability distributions - Uniform, Bernoulli, Binomial, Poisson, Gamma, Beta & Normal distributions - their range, parameters & common uses - Likelihood & parameter estimation by maximum likelihood - Numerical likelihood profiles & maximum likelihood Introduction to Bayesian statistics - Relationship between prior, likelihood & posterior distributions - Summarising a posterior distribution; The philosophical differences between frequentist & Bayesian statistics, & the practical implications of these - Applying Bayes' theorem to discrete & continuous data for common data types given different priors - Building a posterior profile for a given dataset, & compare the effect of different priors for the same data

Day 2: MCMC Introduction to MCMC - The curse of dimensionality & the advantages of MCMC sampling to determine a posterior distribution - Monte Carlo integration, st&ard error, & summarising samples from posterior distributions in R - Writing a Metropolis algo-

rithm & generating a posterior distribution for a simple problem using MCMC Markov chains, autocorrelation & convergence; - Definition of a Markov chain - Autocorrelation, effective sample size & Monte Carlo error - The concept of a stationary distribution & burnin; - Requirement for convergence diagnostics, & common statistics for assessing convergence - Adapting an existing Metropolis algorithm to use two chains, & assessing the effect of the sampling distribution on the autocorrelation Introduction to BUGS & running simple models in JAGS - Introduction to the BUGS language & how a BUGS model is translated to an MCMC sampler during compilation - The difference between deterministic & stochastic nodes, & the contribution of priors & the likelihood - Running, extending & interpreting the output of simple JAGS models from within R using the runjags interface

Day 3: Common models for JAGS and BUGS Using JAGS for common problems in biology - Understanding and generating code for basic generalised linear mixed models in JAGS - Syntax for quadratic terms and interaction terms in JAGS Essential fitting tips and model selection - The need for minimal cross-correlation and independence between parameters and how to design a model with these properties - The practical methods and implications of minimizing Monte Carlo error and autocorrelation, including thinning - Interpreting the DIC for nested models, and understanding the limitations of how this is calculated - Other methods of model selection and where these might be more useful than DIC

Day 4: The flexibility of MCMC General guidance for model specification - The flexibility of the BUGS language and MCMC methods - The difference between informative and diffuse priors - Conjugate priors and how they can be used - Gibbs sampling State space models - Hierarchical and state space models - Latent class and mixture models - Conceptual application to animal movement - Hands-on application to population biology - Conceptual application to epidemiology

Day 5: Practical guidance for Bayesian methods in practise Additional Bayesian methods

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Glasgow Bioinformatics Oct19-23

BIOINFORMATICS FOR BIOLOGISTS - 19th - 23rd October 2015 - SCENE, Glasgow, United Kingdom

The handling of large data-sets has become intractable without some level of bioinformatic literacy. Many biologists find that there is a steep learning curve to develop the confidence required to explore their genomics datasets effectively. This bioinformatics short course includes a rich collection of hands-on instruction and lectures specifically intended to help novice users become comfortable with a range of tools currently used to analyse next-generation data. There is no prerequisite for this course other than a willingness to learn and to work hard throughout the week.

The course will be held at SCENE (Scottish Center for Ecology and the Natural Environment), Glasgow, United Kingdom.

The course is 5 days long and will have a day spent on each of the following; Linux, RNAseq, Assembly, Annotation and Python, more details on each of these day long modules and the course can be found at < http://prstatistics.co.uk/-bioinformatics%20for%20biologists/index.html >

Costs start at £540 course only (student rate) and includes lunches and refreshments or £715 for an all-inclusive option (student rate) which includes all accommodation and meals full pricing and details on accommodation can be found via the website www.prstatistics.co.uk or for questions email oliverhooker@prstatistics.co.uk

Please feel free to distribute this information among friends and colleagues where suitable

Other upcoming courses include; ANALYSIS OF STABLE ISOTOPE DATA USING SIA-R; GENETIC DATA ANALYSIS IN R; APPLIED BAYESIAN MODELLING FOR ECOLOGISTS AND EPIDEMIOLOGISTS; SPATIAL ANALYSIS OF ECOLOGICAL DATA USING R; ADVANCING IN R; further details on all of these can be found at www.prstatistics.co.uk oliverhooker@prstatistics.co.uk

Ilhabela Brazil PhylogeneticComparativeMethods Jul2-5

Intensive short course on phylogenetic comparative methods in R

We are pleased to announce a new graduate-level intensive short course on the use of R for phylogenetic comparative analysis. The course will be four days in length and will take place at the Hotel Ilha Flata (http://www.ilhaflat.com) in Ilhabela, Sao Paulo State, Brazil, from the 2nd to the 5th of July, 2015. This course is funded by the National Science Foundation. The course is free of cost, and accommodation at the course venue, as well as breakfast & lunch on all course days, is included for all accepted students. There will be a small number of travel stipends available for qualified students and post-docs. Applicants are welcome from any country, but are especially encouraged from the Latin American region.

Topics covered will include: an introduction to the R environment and programming language, tree manipulation, independent contrasts and phylogenetic generalized least squares, ancestral state reconstruction, models of character evolution, diversification analysis, and community phylogenetic analysis. Course instructors will include Dr. Liam Revell (University of Massachusetts Boston), Dr. Luke Harmon (University of Idaho), and Dr. Mike Alfaro (University of California, Los Angeles).

Instruction in the course will be primarily in English, thus all students must have a basic working knowledge of scientific English. To apply for the course, please submit your CV along with a short (maximum 1 page) description of your research interests, background, and reasons for taking the course. Admission is competitive, and preference will go towards students with background in phylogenetics and a compelling motivation for taking the course. Applications should be submitted by email to ilhabela.phylogenetics.course@gmail.com by May 1st, 2015. Questions can be directed to liam.revell@umb.edu.

– Liam J. Revell, Assistant Professor of Biology University of Massachusetts Boston web: http://faculty.umb.edu/liam.revell/ email: liam.revell@umb.edu blog: http://blog.phytools.org Liam.Revell@umb.edu

ImperialCollege London 1yrMastersEvolution

Dear All,

Admissions are currently open for the 1-year Masters courses at the Silwood Park (our campus in Berkshire near Ascot) of the Department of Life Sciences, Imperial College London. We are an international centre for research and training in ecology, evolution, biological conservation and climate-driven ecosystem dynamics. The Department of Life Sciences at Imperial College London is one of the largest life sciences groups worldwide. The Department has an outstanding international reputation for research and excellent facilities for postgraduate research and education.

We offer a range of Masters courses < http://-www.imperial.ac.uk/visit/campuses/silwood-park/-prospective-students/msc-and-mres-courses/ > in theoretical, empirical and applied ecology, evolution, and conservation at Silwood Park and at the Natural History Museum London. Our courses are taught in partnership with other organisations such as the Royal Botanical Gardens Kew, The Grantham Institute, Zoological Society of London, Durrell Wildlife Conservation Trust, Thomson Ecology, CABI and Surrey Wildlife Trust.

Our courses cover a range of topics, and are an ideal stepping stone towards a career into scientific research and academics, conservation, applied biosciences, or consultancy. You will learn new skills, conduct your own cutting-edge research and use your science to tackle real-world challenges, while being part of a lively, international community devoted to postgraduate research and training.

Our Courses:

MRes Biosystematics (based at the Natural History Museum) (https://www.imperial.ac.uk/study/pg/courses/-life-sciences/biosystematics/)

MSc/MRes Computational Methods in Ecology and Evolution (http://www.imperial.ac.uk/life-sciences/-postgraduate/masters-courses/-msc-in-computational-methods-in-ecology-and-evolution-cmee/)

MSc Conservation Science (http://www.imperial.ac.uk/-study/pg/courses/life-sciences/conservation-science/)

MSc Ecological Applications http://-

www.imperial.ac.uk/life-sciences/postgraduate/-masters-courses/msc-in-ecological-applications/ MSc/MRes Ecology, Evolution and Conservation (fulltime or part-time options available) http://-www.imperial.ac.uk/life-sciences/postgraduate/masters-courses/masters-in-ecology-evolution–conservation-msc-and-mres/ MRes Ecosystem and Environmental Change (new for 2015) (http://www.imperial.ac.uk/-life-sciences/postgraduate/masters-courses/mres-in-ecosystem-and-environmental-change/)

MSc Taxonomy and Biodiversity (based at the Natural History Museum) (http://www.imperial.ac.uk/-life-sciences/postgraduate/masters-courses/msc-in-taxonomy–biodiversity/)

MRes Tropical Forest Ecology (new for 2015) (http://-www.imperial.ac.uk/life-sciences/postgraduate/masters-courses/mres-in-tropical-forest-ecology/)

* Key benefits*

*

Join a top department (1^st in the UK for Biological Sciences in REF2014 http://www.imperial.ac.uk/-life-sciences/about/ref-2014/) at a top university (2^nd in the QS World University Rankings http://www.topuniversities.com/university-rankings/world-university-rankings/2014, 9^th in The Times Higher Education World University Rankings http://www.timeshighereducation.co.uk/-world-university-rankings/2014-15/world-ranking, 22^nd in the Shanghai Ranking 2014/2015 http://-www.shanghairanking.com/ARWU2014.html).

*

Our graduates go successfully into PhDs and jobs in Europe, the USA and internationally with a success rate.

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LakeheadU DNAMethods May5-Jun25

Practical DNA Training Program Summer Special:

A two-week (9 business days) intensive laboratory-based training program designed to teach participants the fundamentals of molecular techniques including DNA extraction, amplification (using PCR), sequencing and interpretation.

This training program is offered at various times throughout the year and we will work with you to find a suitable time for training. The cost of the training program is now $2500.00.

The next scheduled times for the Practical DNA Training Program are: May 5 - 15, 2015, May 25 - June 4, 2015, June 15 - 25, 2015

For more information please contact us at 807-343-8877 or email paleodna@lakeheadu.ca or visit our website at www.ancientdna.com and click on 'Training Programs'.

Thank you.

Karen.

Karen Maa Administrative Assistant Paleo-DNA Laboratory 1294 Balmoral Street, 3rd Floor Thunder Bay, Ontario P7B 5Z5 Telephone: 1-866-DNA-LABS or 1-807-343-8616

Karen Maa <kmaa@lakeheadu.ca>

Maine Seaweeds

Greetings all-

Please join us for a terrific week in the wilds of Maine just outside Acadia National Parks Schoodic Peninsula at the Eagle Hill Institute.

Jessica Muhlin and Nic Blouin promise an exciting introductory week to marine algae.

The algae are a complex group of organisms living in both freshwater and marine environments. This short course will focus on marine macroalgae, or seaweeds, and is designed to introduce taxonomic, systematic, physiological, and ecological aspects of Maine seaweeds. Through field, lecture, and laboratory experiences, we will survey the seaweeds and habitats found in the Gulf of Maine, examine the evolutionary processes that led to the diversification of seaweeds, and learn life histories as well as the processes that influence the distribution of seaweeds over space and time in the Gulf of Maine. We will also include a module on ethnobotany and the economic importance of seaweeds in the North Atlantic. The course is limited to 15 students to ensure an inimate

learning environment.

Complete information for associated costs, application information and details about Eagle Hill can be found here:

http://www.eaglehill.us/index.shtml http://-www.eaglehill.us/programs/nhs/nhs-calendar.shtml A Downloadable flyer can be accessed here: http://-www.eaglehill.us/programs/nhs/seminar-flyer-pdfs/-2015Seaweed_MuhlinBlouin.pdf Jessie Muhlin (jessica.muhlin@mma.edu) is an Associate Professor of Marine Biology at Maine Maritime Academy where she teaches courses in the Corning School of Ocean Studies. Her research interests focus on the reproductive ecology, population genetics and food web ecology of fucoid seaweeds in the northwestern Atlantic. Jessie is also actively involved in art-science collaborations using marine algae as inspiration. She is committed to educating the public on the importance and fascinating aspects of the algae and she regularly presents in educator workshops.

Nic Blouin (nblouin@mail.uri.edu) is a postdoctoral fellow at the University of Rhode Island. Nics primary scientific interests revolve around how evolutionary pressure drives adaptation in seaweeds. He uses a combination of field observations and whole genome data to understand how genomic changes affect life histories. Nic also has experience with seaweed aquaculture in Maine and in Asia, and has used intertidal collecting forays and art-making as a way to help students understand the interconnectivity of the environment and ecological success in the intertidal zone. Along with Jessie, Nic has extensive knowledge of Maines marine algal community.

Jessie and Nic have been working together on various projects for over 10 yrs.

nic blouin <nblouin69@gmail.com>

NatlUIreland Bioinformatics May11-16

Hi folks,

I would like to draw your attention to this year's edition of our Bioinformatics and Phylogenetics Summer School, which will take place from May 11th-16th, inclusive.

The details are here:

http://bioinf.nuim.ie/bioinformatics-phylogenetics-summer-school-2015/ Please pass this email on to anybody you think might be interested.

Regards,

James.

– James McInerney PhD DSc, Bioinformatics & Molecular Evolution Unit, Department of Biology, National University of Ireland Maynooth, Co. Kildare, Ireland. website — http://bioinf.nuim.ie/james-mcinerney/ mcinerney.james@gmail.com

Orleans France TreeParasites Aug23-28

Dear Colleagues,

The *5th International Workshop on the* *Genetics of Tree-Parasite Interactions* will take place at*Orléans, France, 23-28 August 2015*.

The *deadline for abstract submission has been extended to the **15th of April*, which means that the deadlines for early bird registration and for abstract submission are now the same.

All abstracts must be submitted online following this link < https://colloque.inra.fr/tree-parasite-interactions2015/Abstract-submission >.

colloque international Genetics of tree-parasite interactions

PLEASE NOTE : because several of you wondered how restrictive the term "genetics" is, we would like to tell you also what this workshop is not.

THIS WORKSHOP _IS NOT _RESTRICTED TO BREEDERS AND PLANT GENETICISTS !!

Maybe we should think of another name for the next edition of this workshop to make things clearer ...

As you can see from the tentative program < https://colloque.inra.fr/tree-parasite-interactions2015/-Program2 >, all aspects of tree-pathogen interactions, host side, pathogen side, from the cell to the landscape, will be covered. As an example, those of you not dealing with genetics at all but studying resistance/virulence/aggressiveness mechanisms will perfectly fit into the "/Resistance / tolerance and virulence / aggressiveness //*MECHANISMS*//and their genetic determinants/" session eventhough the genetic determinants are far from being elucidated.

Sessions: 1 - Novel challenges due to EMERGING or NON-NATIVE pests and pathogens 2 - PHENOTYPING resistance and MONITORING parasites at different scales 3 - Resistance / tolerance and virulence / aggressiveness MECHANISMS and their genetic determinants 4 - Understanding host-parasite co-evolution: a requirement for DURABLE breeding & management strategies 5 - POPULATION GENETICS of pests, pathogens and vectors 6 - New GENOMIC tools and resources 7 - From genetics to management: INNOVATIVE strategies for disease/pest control

Again, at this stage, the program is only tentative and it will all depend on the audience and on the submitted talks. The last session, entitled "/From genetics to management: //*INNOVATIVE*//strategies for disease/pest control/" could also include some talks on biological control ...

Organizers would like to remind you that there are *only 80 rooms available* at the Conference Hotel < https://colloque.inra.fr/tree-parasite-interactions2015/Practical-information#Ancre_venue >, so please make your hotel booking as soon as possible. We can advise you a few other hotels once this one is full but all of them are at non negligeable walking distance.

So, please, do not restrain yourself from participating but *take your ticket **as soon as possible *(click here to visit de conference's website < https://colloque.inra.fr/-tree-parasite-interactions2015 >) as the number of participants will be limited for practical reasons and to foster discussions.

Please note that registration fees *not only* include full access to the scientific program and all conference material *but also* the following :

* a welcome cocktail reception (Sunday evening)

* the following meals: Monday (Lunch+Diner), Tuesday (L+D), Thursday (L+D)

* coffee breaks: Monday (2), Tuesday (2), Thursday (2), Friday (1)

* Field trip + picnic basket + reception diner (Wednesday)

which means that *participants will have very little additional expenses except travelling and lodging*.

Finally, for PhD students and their mentors, please remember also the offer below :

We are pleased to announce that thanks to the following sponsors :

Résultat de recherche d'images pour "us forest service" occhio < http://www.occhio.be/ > Hettich < http://www.hettichlab.com/ >

*are offering **_free registration fees_**to 4 PhD students !!!* (i.e. 500 euro discount each)

To encourage those of you who have to support high travel expenses, priority will be given to PhD students who come from distant countries _and_ who are accompanied by one fully paying participant from the same laboratory.

Applicants must*submit their* abstract through the online submission system < https://colloque.inra.fr/-tree-parasite-interactions2015/Abstract-submission > before April 1st 2015 and *reply this message* providing the following details :

*- name: - institution/laboratory: - country and approximative travel expenses with details: - age:

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Raleigh NC BioinformaticsPracticalTools May18-22

Hi Everyone-

We have a few spots left. If you have interest in participating in our Raleigh workshop being held at HQ Raleigh (http://hqraleigh.com/) , please drop us a line and let us know.

A description of the course and application are here: https://biodatatraining.wordpress.com If you need further information, we are happy to answer any questions you have.

We have a good mix of graduates, postdocs, and PIs for the workshop and believe it will synergistic group.

Hope to see you in Raleigh. Nic and Ian

Spring workshop in Bioinformatics

Raleigh, North Carolina May 18 - 22, 2015

The handling of large datasets has become intractable without some level of bioinformatic literacy. Many biologists find that there is a steep learning curve to develop the confidence required to explore their genomics

datasets effectively. This bioinformatics short course includes a rich collection of hands-on instruction and lectures specifically intended to help novice users become comfortable with a range of tools currently used to analyze next-generation data. There is no prerequisite for this course other than a willingness to learn and to work hard throughout the week. All workshop exercises will be implemented via VirtualBox and focus on Illumina data.

Course participation is limited to to 25 students to ensure an intimate learning environment.

Course instuctors: Nic Blouin, PhD & Ian Misner PhD

Full course information/topics, contact, instructor info, and application instructions at https://biodatatraining.wordpress.com BioData <biodatatraining@gmail.com>

SB-Roscoff Choanoflagellates Jun16-19

We invite all members of the choanoflagellate research community to participate in the 2015 International Choanoflagellate Workshop. The goal of this meeting will be to build the choanoflagellate research community by fostering collaborations and providing a forum for presenting research on choanoflagellate biology. Past meetings have featured research on topics as diverse as evolution, microbial ecology, fluid dynamics, host-microbe interactions, cell biology, comparative genomics, biomineralization, and more!

The workshop will be held at the Station Biologique Roscoff < http://www.sb-roscoff.fr/centre-de-conferences.html > beginning the evening of Tuesday, June 16 and finishing late afternoon on Friday, June 19. Roscoff is accessible either by a short taxi ride from the Brest airport or by train from the CDG airport.

At this time, we invite you to register for the meeting by May 1, 2015 at this link: http://goo.gl/forms/-QmLYlbSBgD All attendees are encouraged to either present a talk or a poster. When registering, please provide a title and abstract, and indicate your preferred presentation type. Speakers will be selected based on talk titles and a goal of highlighting the full breadth of research ongoing in the community.

If you have any questions about the meeting, please don't hesitate to contact us at choanoflagellate@gmail.com. We look forward to seeing you!

Nicole King Investigator, Howard Hughes Medical Institute Professor of Genetics, Genomics and Development Department of Molecular and Cell Biology University of California, Berkeley

kinglab.berkeley.edu www.hhmi.org/scientists/nicole-king Lab Manager: Heather Middleton (middletonhl@berkeley.edu) Administrative Assistant: Rosa Lewandowski (rlewando@berkeley.edu)

nicoleking.ucb@gmail.com

SeattleSummerInst Apr24Deadline

The deadline for scholarship applications is on Friday April 24 for:

Summer Institute in Statistical Genetics Summer Institute in Statistics and Modeling for Infectious Diseases Summer Institute in Statistic for Big Data

Details are available at http://-www.biostat.washington.edu/suminst Bruce Weir Department of Biostatistics University of Washington Box 359461 Seattle, WA 98195-9461

Bruce Weir <bsweir@uw.edu>

SwissAlps Adaptation Jun17-20

Workshop announcement - registration deadline approaching (15 April 2015)

A few places are still available in our workshop on "Theoretical and empirical evidence of adaptations" to be held in La Fouly (Valais, Switzerland) on June 17-20, 2015.

The aim of the proposed symposium is to bring together experimental, empirical and theoretical evolutionary biologists, all working to resolve fundamental questions at the center of a century-old debate.

For example: What is the distribution of fitness effects of new, segregating, and fixed mutations? What is the relative importance of adaptation vs. genetic drift in the evolution of natural populations? What are the genetic and genomic bases of adaptations and speciation(s)?

By combining expertise across wet and dry lab biology,

and due to the progress of new genomic technologies, it is becoming increasing possible to gain traction on these questions which are fundamental to any basic understanding of the very mode and tempo of the evolutionary process.

The workshop will bring together top researchers in the field with graduate students and junior researchers in La Fouly, a remote and beautiful location in the Swiss Alps (see www.lafouly.net), allowing for close interactions and vivid exchanges due to the very limited number of participants (max. 35). The scientific program will consist in 2 1/2 days of a mixture of talks by invited speakers and students, and poster sessions. The workshop will end with a hike to some nearby magnificent view points over the Mont Dolent and Mont-Blanc region.

Confirmed invited speakers:

Prof. Peter Andolfatto, Princeton University (US) Prof. Joachim Hermisson, University of Vienna (AT) Dr. Felicity Jones, Friedrich Miescher Laboratory of the Max Planck Society, Tübigen (DE) Prof. Hanna Kokko, University of Zurich (CH) Prof. Bret Payseur, University of Wisconsin (US) Prof. Ole Seehausen, University of Bern & EAWAG (CH) Prof. Olivier Tenaillon, Institut national de la santé et de la recherche médicale, Paris (FR)

Cost:

400 CHF, including conference fees, all meals and accommodation (with sleeping bags). Free attendance for CUSO students.

Web site and registration:

http://www.cuso.ch/activity/?p=3D1128&id=3D2243
The organizers:

Laurent Excoffier Jeff Jensen Stephan Peischl Claudia Bank

Dr. Claudia Bank School of Life Sciences Ãcole Polytechnique Fédérale de Lausanne (EPFL), Switzerland and Swiss Institute of Bioinformatics

Email: claudia.bank@epfl.ch Webpage: http://-/people.epfl.ch/claudia.bank Jensen lab: http://-jensenlab.epfl.ch klaudiebank@gmail.com

SwissAlps Adaptation Jun17-20 2

Please find below an updated version of the previous announcement, this time including a functional link to the registration webpage.

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(FR)

Cost:

400 CHF, including conference fees, all meals and accommodation (with sleeping bags). Free attendance for CUSO students.

Web site and registration:

http://bit.ly/1OTRLPy (If this link does not work, you can access the workshop page via the newsfeed entry on the Jensen lab webpage: http://jensenlab.epfl.ch)

The organizers:

Laurent Excoffier Jeff Jensen Stephan Peischl Claudia Bank

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Dr. Claudia Bank School of Life Sciences Ãcole Polytechnique Fédérale de Lausanne (EPFL), Switzerland and Swiss Institute of Bioinformatics

Email: claudia.bank@epfl.ch Webpage: http://-/people.epfl.ch/claudia.bank Jensen lab: http://-jensenlab.epfl.ch klaudiebank@gmail.com

TGAC Norwich UK RADseq and Stacks Jun8-12

Hi All,

We will be hosting a RAD sequencing and analysis course in June at TGAC in the UK.

http://www.tgac.ac.uk/361_Division/training-programme/courses-workshops/tgac-events/genotyping-by-sequencing/ This course will discuss the RAD molecular protocol and the computational analysis of RAD data. We will start from the beginning in presenting analysis techniques, providing participants with a solid base of UNIX before we move on to analyzing data with Stacks.

- We will analyze data with and without a reference genome, focusing on analyzing data to look for population structure in the de novo case, and doing Fst genome scans in the reference genome case.

- We will also have two guest speakers who will present their RAD analyses, including sex determination in fishes and the effects of toxins on populations of trout.

- Students will have an opportunity to interact with the instructors, guest speakers, and fellow attendees giving lots of time to talk strategy and research tactics.

The course will run from June 8 through the 12th at The Genome Analysis Centre (TGAC) in Norwich, UK. The application deadline is April 24th.

Please forward this message on to any local mailing lists if you think there may be interest.

Thanks and best wishes,

julian

Julian M Catchen, Ph.D. Assistant Professor Department of Animal Biology University of Illinois, Urbana-Champaign

jcatchen@illinois.edu; @jcatchen

jcatchen@illinois.edu

UBristol BayesianPhylogenetics Jul30-31

Bayesian Methods to Estimate Species Divergence Times

30th and 31st of July of 2015 Life Sciences Building, University of Bristol, UK

Course organised by Mario dos Reis (University College London), Ziheng Yang (University College London) and Philip Donoghue (Bristol University)

In this two-day workshop we will introduce the theory and practice of Bayesian statistical methods to analyze molecular, morphological and fossil data to estimate the times of divergence of species on a phylogeny. The workshop is aimed at scientists (graduate students, postdocs and established academics) interested in using the methods in their own research. Attendees will learn how to write their own basic MCMC Baysian phylogenetics program (in R), and will learn how to use specialized packages such as Beast, MCMCTree and MrBayes for divergence time estimation. There will be emphasis on analysis of genome-scale data. The workshop will also introduce attendees to the newer methods for combined analysis of morphological and molecular data (so-called total evidence dating). In particular, there may be an opportunity for attendees to learn how to analyse continuous morphological data (such as landmarks) with the program MCMCTree.

For more info and registration: http://bit.ly/1INFQxZ
Queries: mario.barros@ucl.ac.uk

– Mario dos Reis

mario.barros@ucl.ac.uk mariodosreis.wordpress.com

Associate staff Department of Genetics, Evolution and Environment University College London London, WC1E 6BT, UK

mariodosreis@gmail.com

UNordland NGS NonModelOrganisms May27-Jun5

PhD course: High throughput sequencing of non-model organisms

Faculty of Biosciences and Aquaculture, University of Nordland, Norway. This course will run 27 May - 5 June 2015. Application deadline is 30 April.

High throughput sequencing technologies are being applied to a wide range of important topics in biology. However, the analyses of non-model organisms, for which little previous sequence information is available, pose specific problems. This course addresses the specific strengths and weaknesses of alternative HTS technologies, the computational resources needed for HTS, and how to analyze non-model species using HTS. The course consists of a practical training module, HTS bioinformatics training, and lecturing/seminars of HTS approaches specifically targeting non-model organisms.

We accept a maximum of 10 students. The closing date for applications is 30 April 2015.

If you have questions regarding the course, please contact Prof. Truls Moum at tmo@uin.no

Please find a detailed course description and application form here: http://www.uin.no/no/om-uin/fakulteter-og-sentre/fakultet-for-biovitenskap-og-akvakultur/-artikler/Sider/High-throughput-sequencing-of-non-model-organisms.aspx Kind regards, Jeanett

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.