
E v o l D i r

September 1, 2011

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

Foreword

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

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

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



Foreword	1
Conferences	2
GradStudentPositions	10
Jobs	21
Other	42
PostDocs	52
WorkshopsCourses	74
Instructions	81
Afterword	81

Conferences

Arizona Volvox Evolution Dec1-4	2	NHM London Young Systematists Dec1	7
Belgrade Population Evolutionary Genetics May9-12 .	2	Ottawa Systematic Biol Jul6-10 Call Proposals	8
Berlin Evol Mol Techniques Oct5-7	3	Townsville QLD Australasian Evolution Society Sep24-	
Bialowieza Poland Moose Pop Genetics Aug6-10	4	27 extended	8
Galway RECOMB Comp Genomics Oct8-10	5	UCollege Dublin Comput Biology Dec6-7	9
Jyvaskyla Coevolution Oct4-7 Deadline Extended ...	6	UOxford Biogeography Sep23-25 Deadline Extended .	9
LaJolla Drosophila Species Oct27-30	6	Woods Hole MA Northeast Mobile DNA Sep1-3	9
New Orleans Biodiversity Oct17-21	7		

Arizona Volvox Evolution Dec1-4

Please join us for the 1st International *Volvox* Conference (focused on the green alga *Volvox* and its close relatives) to be held December 1-4, 2011 at the Biosphere 2, in Arizona, USA (<http://www.b2science.org/>). This is the first of what we hope to be a long series of *Volvox* meetings to be held every other year, alternating with the *Chlamydomonas* meetings. For additional information and updates (including preliminary program, registration and abstract submission deadlines) please visit the Conference page at <http://www.unbf.ca/vip/IVC/index.htm>. The idea of a meeting on everything about *Volvox* and its relatives (aka Volvocales or volvocine algae; see <http://www.unbf.ca/vip/index.htm>) reflects both an increase in the size of the *Volvox* community and the realization that many researchers from fields traditionally not associated with *Volvox* research (e.g., physics, theoretical biology) are interested in various aspects of the system. Volvocine algae have become an important model system for the evolution of multicellularity, development and cellular differentiation, and lately have yielded important results in fields as diverse as genomics, hydrodynamics, and social evolution. We hope that such a meeting will foster exchange of ideas and expertise, and will initiate new collaborations. With these meetings we also wish to attract new people and to build a stronger *Volvox* community.

In addition to sessions (contributed papers and posters)

on various aspects of the biology, taxonomy, ecology, development and evolution of *Volvox* and its relatives, we are organizing a workshop on *Volvox* genetics and genomics that will provide a forum to discuss emerging tools and methods (or ways of adapting those that have been developed in other systems) to enhance our understanding of genetically-controlled processes in this group of algae. Thanks to the American Genetics Association and the Phycological Society of America, support and awards will be available for student/postdoc participants.

Aurora M. Nedelcu University of New Brunswick Department of Biology PO Box 4400 Fredericton, New Brunswick Canada E3B 5A3

Matthew D. Herron Department of Zoology University of British Columbia X.princeps@gmail.com <http://www.eebweb.arizona.edu/grads/mherron/xprinceps@gmail.com>

Belgrade Population Evolutionary Genetics May9-12

Dear colleagues,

We would like to invite you to attend II Symposium of Population and Evolutionary Genetics, 9 V 12 May 2012 in Belgrade, Serbia, organized by Serbian Genetic Society.

Modern population genetics has undergone significant expansion, particularly resulting from genomics and increased computational power. Most of all, the applicability of population and evolutionary genetics approach in conservation of species and medicine highlights the contemporary population genetic research.

All species, from prokaryotes to humans, are inevitably related through evolution of their genomes at molecular and population levels. They all share different environments with a complex network-like interaction. This symposium will explore how theory, empirical data, and methodological approaches from diverse fields, including ecology and evolutionary genetics, reveal the processes of macroevolutionary patterns. The aim is to present and discuss state-of-the-art results, theoretical developments, understanding and methodology across the whole range of population and evolutionary genetics. The meeting welcomes the results from microorganisms to humans, livestock, crops, and natural and experimental populations of all species.

>From eminent speakers coming from all over Europe (Spain, Portugal, Italy, Greece, Denmark, England, etc.) we expect to hear about the new frontiers and latest breaking results in population and evolutionary research approach in conservation genetics and medicine.

You can find more information at WEB Program page: www.peg2012.rs Information on the Web will be updated timely. Meanwhile, please contact the Symposium Organizers for further information.

We would also appreciate if you could forward this e-mail to your colleagues and within your research groups and institutions.

Best regards, Zorana Kurbalija Novicic, PhD Department for Genetics of Population and Ecogenotoxicology Institute for Biological Research, University of Belgrade, Serbia kurbalija@ibiss.bg.ac.rs

Zorana Kurbalija Novicic <kurbalija@ibiss.bg.ac.rs>

Berlin EvolMolTechniques Oct5-7

we are organizing a workshop “Molecular Interactions” in Berlin at the beginning of October.

It does not have a direct “Evolutionary” basis, but deals with new biotechnology methods which are also relevant for evolutionary genetics/genomics and modelling. The workshop is mainly dedicated young researchers and

therefore affordable.

best regards Ina

Here the message

Dear colleagues, I would like to draw your attention to our workshop “Molecular Interactions - in vivo - in vitro - in silico”.

The workshop will take place from October, 5th to 7th 2011 at the ZUSE Institute Berlin (ZIB), in Berlin, Germany. The aim of the annual “Molecular Interactions” workshop is to give an overview about state-of-the-art methods and techniques in the life sciences. We are inviting internationally renowned scientists to report on the most current and up-to-date developments within their specific areas of research. In particular within “omics” research, the development and use of modern technologies that require a high degree of specialist knowledge is of high prominence. For this years “Molecular Interactions” priority is given to the following topics: BIOTECHNOLOGY CELLULAR SYSTEMS DATA MINING / MATHEMATICAL SYSTEMS FUNCTIONAL PROTEOMICS AND GENOMICS RNA TECHNOLOGIES SINGLE MOLECULE ANALYSIS SYSTEMS BIOLOGY OF T-HELPER CELLS (novel tools and important results) SYNTHETIC BIOLOGY SYSTEMS BIOLOGY TRANSLATIONAL CONTROL

In addition participants can present their own work during a POSTER SESSION. If you’re presenting a poster please send an abstract (max. 2.000 characters) until 09.09.2011 to molecularinteractions@googlegmail.com.

Furthermore, “Molecular Interactions” provides a platform for junior researchers to network and get in contact with experts from academic research institutions and industry.

Before starting the scientific presentations we invite you to participate in our PROFESSIONAL INFORMATION EVENT on Wednesday: Scientists from different fields give an insight view on their work as a junior professor, a project manager, an administrative manager, a sales-/product-manager, a scientific coordinator or a public relations officer.

Terms of payment: Registration: Euro 70, Reduction for students: Euro 40 Refreshments during coffee breaks and lunch will be provided.

Please note that we award financial support for participation and journey.

More information and registration is available on our website www.molecularinteractions.de We are very much looking forward to meeting you at the workshop

“Molecular Interactions”!

With best regards

Dr. Ina Pokorny for the organizing team

– Dr. Ina Pokorny

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Karl-Liebknecht-Str. 24-25, Haus 20 14476 Potsdam
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phone: +49 331 977-2811 e-mail: pokorny@uni-potsdam.de

“Dr. Ina Pokorny” <pokorny@uni-potsdam.de>

Bialowieza Poland MoosePopGenetics Aug6-10

The moose congress will take place next year in Bialowieza, Poland. Below you can see the text of the announcement. One of the main topics of the congress will be population genetics, gene flow and biogeography of moose.

Best regards, Magda Niedzialkowska

Announcement: 7th International Moose Symposium
Bialowieza, Poland, 6-10 August 2012

The 7th International Moose Symposium will take place in 2012 in Bialowieza, Eastern Poland. This small village, located in the centre of the most primeval lowland forest of Europe, will give the convened moose specialist a unique setting to discuss regional and global changes that influence moose population around the World. Habitat fragmentation, loss of biodiversity, climate change, can all have serious consequences for Alces alces which should be anticipated and monitored. Therefore, a theme of the symposium is: Moose in the changing environment

Organisers: Mammal Research Institute of the Polish Academy of Sciences in BiaowieÅ¼a, Biebrza National Park, Regional Directorate of State Forests in Biaystok, BiaowieÅ¼a National Park, Biebrza National Park

Preliminary programme: The symposium will take 4 days and will be followed by an optional field trip. The scientific session will include oral and poster presentations focusing on the following themes:

Moose management and conservation around the World; Social and socioeconomic aspects of moose man-

agement; Spatial planning and habitat changes that threaten moose populations; Moose biogeography and population genetics; Migrations and gene flow; Population dynamics and its driving factors (food resources, predation, disease, hunting); Moose vegetation relationships, moose and forestry; Physiology, disease, parasites.

Selected papers from the 7th International Moose Symposium will be peer-reviewed and published in a scientific journal Acta Theriologica.

Apart from scientific sessions the programme will include: a trip to the strict reserve of the Bialowieza National Park a visit to the museum of the Bialowieza National Park a visit to enclosures with European bison a visit to the Mammal Research Institute PAS in BiaowieÅ¼a a trip to the managed part of the Bialowieza Forest - moose habitats at Lesna River a post-conference trip to the Biebrza National Park (open marshland with numerous moose, birds, old fortifications) (1 day)

Location: Bialowieza village is located in the centre of the Bialowieza Forest - one of the largest surviving areas of primeval mixed forest (pine, beech, oak, alder, and spruce) in Europe which occupies more than 1,400 square km in Poland and Belarus. The most untouched part of the forest has been designated as a Bialowieza National Park. The forest attained a status of UNESCO Man & Biosphere Reserve, UNESCO World Heritage Site and was granted with a Diploma of the Council of Europe. It is one of the Europeâbiodiversity hotspots with unique community of ungulates including the Worlds largest population of free ranging European bison, as well as moose, red deer, roe deer, and wild boar. Bialowieza village, a historic hunting ground of Lithuanian dukes, Polish kings, and Russian tsars, is a popular tourist attraction with traditional wooden houses, historic buildings, bison show reserve, good restaurants and hotels. In close vicinity to Bialowieza there is a number of other natural and cultural attractions. You can see the magnificent marshlands of the Biebrza River with the highest moose density in Poland, visit the holy hill of the Orthodox Church or the oldest mosque in Poland, try local delicacies or go on a shopping spree in one of the new shopping malls of the regions capital - Biaystok.

The venue: The symposium will take place in the convenient conference hall of the Biaowieza National Park. Lunches and dinners will be served in a restaurant located in the Parks premises.

Transport: Bialowieza is located in the eastern Poland, 250 km from the capital city of Warsaw. You can access Warsaw easily by a plane or a train. The participants

of the symposium will be collected from the Warsaw Okcie Airport and from the Central Railway Station by hired coaches. The travel to Bialowieza takes about 4.5 hours.

Accommodation: As Bialowieza is a frequent tourism destination, there is a wide range of accommodation possibilities ranging from a hostel to a four star hotel. Hotels have a very competitive offer. We booked three hotels for the participants of the conference.

Costs: The costs of the participation in the symposium will include transport from and to Warsaw, conference materials, coffee breaks, simultaneous translations, excursions during the conference, bone fire, gala dinner, and venue. We estimate the cost at around 200-250 euro. Accommodation costs should not exceed 50 euro/person/night. A post-conference field trip will be paid separately. We actively seek for external sources of funding

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Galway RECOMB CompGenomics Oct8-10

Please find below a call for posters for the RECOMB Comparative Genomics workshop in Galway, October 8 - 10, 2011. Poster abstracts, up to a maximum of 500 words, should be sent by e-mail to Cathal.Seoighe@nuigalway.ie. Please include the words RECOMB CG Poster Submission in the subject line. For registration information, please visit <http://www.recombcg.org/registration/>. This year, for the first time, RECOMB CG will accept a small number of contributions for oral presentation only. These contributions will not be included in the meeting proceedings, and will be either on late-breaking research or highlight a current topic of particular importance to the RECOMB CG community. Please indicate on your submission whether you would like the abstract to be considered for this session (please include 'Oral presentation only' or 'Oral presentation or poster' as appropriate in the message if you would like your submission to be considered for this session of the workshop).

More information on the meeting and the scope of contributions accepted is available below. I would be grate-

ful if you could forward this message to anyone to whom it may be of interest.

Apologies for any cross-posting.

Cathal Seoighe

RECOMB-CG, 2011, Call for Posters October 8-10, 2011 Galway, Ireland <http://recombcg.org> CONFIRMED KEYNOTE SPEAKERS

* Ed Green (UC Santa Cruz, USA) * Kateryna Makova (Penn State University, USA) * Julian Parkhill (Sanger Institute, UK) * Nikolaus Rajewsky (Max-Delbrück Center for Molecular Medicine, Germany) * Christopher Greenman (TGAC, UK) * Jerome Salse (INRA, France)

KEY DATES Paper submission deadline June 03, 2011 Notification of paper acceptance June 24, 2011 Poster submission deadline September 20, 2011 Workshop October 8-10, 2011 More details available at <http://recombcg.org> CALL FOR Posters and Special Session Contributions

Poster abstracts, up to a maximum of 500 words, should be sent by e-mail to Cathal.Seoighe@nuigalway.ie. Please include the words RECOMB CG Poster Submission in the subject line. For the first time, this year RECOMB CG will accept a small number of contributions for oral presentation only. These contributions will not be included in the meeting proceedings, and will be either on late-breaking research or highlight a current topic of particular importance to the RECOMB CG community. Please indicate on the abstract submission whether you would like the abstract to be considered for this session (please include 'Oral presentation only' or 'Oral presentation or poster' as appropriate in the body of the message if you would like your submission to be considered for this session of the workshop).

THEME AND SCOPE

The continuing advance of DNA sequencing technology has produced an avalanche of genome sequence and genome structural information across the evolutionary spectrum. Transforming that information into biological knowledge requires creative and innovative new computational and statistical methods for comparative genomics.

The RECOMB Satellite Workshop on Comparative Genomics aims to provide the premier forum for new computational developments applied to all aspects of comparative genomics. We solicit contributions on topics including comparison of genome structure and organization, genome function, and evolution. We particularly encourage contributions that use new computational methods to acquire new insight into biological

processes. Advances in computational theory are welcome, though all submissions should include genome-scale analyses informed by comparative data.

Specific topics of interest include but are not limited to:

Gene and genome duplication Gene family evolution Genome structural variation Algorithms for comparative genomics Genome rearrangement Ancestral genome reconstruction Multiple genome alignment Genome sequence comparison Modeling genome evolution Comparative genomics for genome annotation Gene tree reconciliation Species and gene tree inference Comparative metagenomics Comparative genomics linked to proteomics, metabolomics, and other 'omic data Comparative genomics and gene expression and regulation Applications of comparative genomic methods

At least one author per each successful submission is required to register and present the poster at the workshop. Please address any questions to the program committee chairs: Aaron E. Darling (aaron.darling@ucdavis.edu) and Cathal Seoighe (cathal.seoighe@nuigalway.ie)

CONFERENCE CHAIR

Cathal Seoighe (National University of Ireland, Galway, Ireland)

PROGRAM COMMITTEE CHAIRS

Aaron E. Darling (University of California, Davis, USA) Cathal Seoighe (National University of Ireland, Galway, Ireland)

PROGRAM COMMITTEE

Aida Ouangraoua, INRIA Lille, France

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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>

Jyvaskyla Coevolution Oct4-7 DeadlineExtended

The deadline for abstract submission for the upcoming "Symposium on Coevolution", 4-7 October 2011, has been extended till the 15th of August, 2011. There is still room for oral and poster presentations!

PhD students are also welcome to register even though post-docs are prioritised for talks.

For more information about the symposium and to register, please visit:

<https://www.jyu.fi/bioenv/en/divisions/eko/-coevolution/coevolution-symposium> Please contact the organizing committee at coevo.symposium@jyu.fi for any questions.

Dr. Sandra Varga Postdoctoral Researcher Department of Biological and Environmental Science PO Box 35, FI-40014 University of Jyväskylä Finland

<http://users.jyu.fi/~savarga/> <http://-jyu.academia.edu/SandraVarga> Sandra Varga <sandra.varga@jyu.fi>

LaJolla DrosophilaSpecies Oct27-30

Drosophila Species Workshop X

The Tenth Drosophila Species Workshop will take place from Thursday October 27 through Sunday October 30, 2011 at the UCSD campus in La Jolla, California. The workshop employs hands-on approaches and will focus on the characteristics of the melanogaster, repleta, virilis, and obscura species groups, including how to identify species, aspects of their biology and reproduction, and husbandry. Workshop instructors include Patrick OGrady, Stephen Schaeffer, Sergio Castrezana, Masa Watada, Therese Markow, and Maxi Richmond. Registration is \$400 and includes all instruction and materials, a dinner with keynote talk, morning and afternoon refreshments and one lunch. Space is limited. To apply, please send a one page statement of your research interests and why the workshop will be valuable to you to Dr. Maxi Richmond, UCSD Drosophila Species Stock Center: mrichmond@ucsd.edu

Therese Ann Markow, Professor Amylin Chair in Life Sciences Section of Cell and Developmental Biology Division of Biological Sciences Muir Biology Building 2215 9500 Gilman Drive University of California at San Diego La Jolla, CA 92093-0116

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

New Orleans Biodiversity Oct17-21

TDWG 2011 Meeting

The annual meeting of the Biodiversity Information Standards (TDWG) will be held in New Orleans, October 17-21, 2011. This year the conference theme is "Digitization Methods, Technologies, and Standards for Biodiversity Collections". The Call for Abstracts is now available for contributed papers, symposia, posters, computer demos and lightning talks: <http://www.tdwg.org/conference2011/>. The deadline for submission is September 9, 2011.

Registration for the conference is also open (<http://www.regonline.com/tdwg2011>). Early registration, which entails a \$50 discount, closes August 15th.

Program Committee: Rusty Russell, Smithsonian (Chair) Nico Cellinese, University of Florida Gail Kampmeier, University of Illinois Patricia Mergen, Royal Museum for Central Africa, Belgium Cynthia Parr, Smithsonian Richard Pyle, Bishop Museum, Hawaii Greg Riccardi, Florida State University Kevin Richards, Landcare Research, New Zealand Joel Sachs, University of Maryland

Stan Blum, California Academy of Sciences (ex officio) Chuck Miller, Missouri Botanic Garden (ex officio) Hank Bart, Tulane University (local organizing committee) Nelson Rio, Tulane University (local organizing committee)

Proceeding of TDWG <http://www.tdwg.org/proceedings>
 Nico Cellinese
[<ncellinese@flmnh.ufl.edu>](mailto:ncellinese@flmnh.ufl.edu)

NHM London Young Systematists Dec1

13th YOUNG SYSTEMATISTS¹ FORUM

Thursday, 1st December 2011, 9 am

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

The annual Young Systematists¹ Forum represents an

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

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

Registration is FREE. Send applications by e-mail to (YSF.SystematicsAssociation@gmail.com), supplying your name, contact address and stating whether or not you wish to give an oral or poster presentation. Space will be allocated subject to availability and for a balanced programme of animal, plant, algal, microbial, molecular and other research. Non-participating attendees are also very welcome - please register as above.

Abstracts must be submitted by e-mail in English no later than 18th November 2011. The body text should not exceed 150 words in length. If the presentation is co-authored, the actual speaker (oral) or presenter (poster) must be clearly indicated in BOLD text.

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

Dr Ellinor MICHEL Department of Zoology The Natural History Museum Cromwell Road SW7 5BD London UK tel: +44-207-942-5653 or - 5516

Homepage: <http://www.sorayavillalba.com/ellinor/-index.php> The Nyanza Project: Research Training in Tropical Lakes - <http://www.geo.arizona.edu/nyanza/-index.html> The Natural History Museum - Global Reach <http://www.nhm.ac.uk/nature-online/science-of-natural-history/science-at-the-museum/our-global-reach/>

The Gastropods of Lake Tanganyika: Diagnostic key, classification & notes on the fauna <http://www.limnology.org/pubs/index.shtml#occasional>
 NHM Homepage: <http://www.nhm.ac.uk/research-curation/staff-directory/zoology/cv-7437.html> Ellinor Michel <e.michel@nhm.ac.uk>

kelly.zamudio@cornell.edu

Ottawa Systematic Biol Jul6-10 CallProposals

Society of Systematic Biologists Call for Symposia for the 2012 Annual Meeting

The Society of Systematic Biologists invites proposals for symposia at the 2012 Evolution meetings to be held in Ottawa, Ontario, Canada from 6-10 July 2012. The meeting will be held jointly with the American Society of Naturalists and the Society for the Study of Evolution.

Proposals should include (1) a descriptive title, (2) one or two paragraphs explaining the purpose of the symposium and its relevance to systematics, (3) a list of presentations including proposed speakers, their institutions or affiliations, and their presentation titles, and (4) an indication of whether the speakers have been invited and whether they have agreed to participate.

Symposia are restricted to half-day sessions (typically six half hour talks). The society is particularly interested in symposia whose topics do not overlap with those from previous meetings (see SSB website for past symposia), that introduce new ideas or synthesize important concepts, or those that are particularly good examples of the analysis of empirical data. Proposals that unite systematics with other fields are also desirable. We encourage participation from young investigators and others typically under-represented in symposia.

Deadline: for full consideration, please submit proposals by Sept 20, 2011.

Proposals will be evaluated by the SSB Council in late September. Soon after, organizers will be notified of the status of their proposals. Selected symposia will receive \$4000 to partially defer participant costs.

Please E-mail proposals (Word or PDF format) to the Program Chairperson, and use the subject heading: SSB Symposium Proposal 2012.

SSB Program Chair Kelly R. Zamudio Department of Ecology and Evolutionary Biology Cornell University Ithaca, NY 14853 Email: kelly.zamudio@cornell.edu Phone: 607 254 4212

The program chair will confirm receipt of submitted proposals, please inquire if you do not receive e-mail confirmation.

Townsville QLD Australasian Evolution Society Sep24-27 extended

Dear Evolutionary Biologists,

AES REGISTRATION HAS BEEN EXTENDED TO FRIDAY 2 SEPTEMBER

I invite you to join us for the 7th Biennial meeting of the Australasian Evolution Society (<http://aes.eriophora.com.au/events/evolution11/index.html>) to be held in Townsville, Queensland from 24-27 September 2011.

For more information, and to register, please go to <http://aes.eriophora.com.au/events/evolution11/index.html>. Registration includes entry to all sessions, the conference ice-breaker/welcome function, the conference dinner, all lunches, morning and afternoon teas, a conference pack, and membership to the Australasian Evolution Society.

The conference will be held at the Rydges Convention Centre in Townsville, situated within the heart of the restaurant and hotel region of the town and only a short walk to the beach and ferry to Magnetic Island. Pre-conference drinks and registration start on the evening of Saturday 24 September at the Townsville Yacht Club. Presentation sessions will run each day from Sunday 25 September to Tuesday 27 September. The Conference dinner will be held on the evening of Monday 26 September at the Museum of Tropical Queensland.

We hope you will join us and look forward to seeing you in sunny Townsville in September!

On behalf of the organising committee,

Megan Higgie

Vice-President Australasian Evolution Society

Find us on Facebook: Australasian Evolution Society <http://www.facebook.com/groups/95240533874/-> AES Conference 2011 <http://www.facebook.com/-event.php?eid=141305975949793> Dr Megan Higgie Lecturer / ARC Australian Postdoctoral Fellow School of Marine and Tropical Biology James Cook University Townsville QLD 4811 Australia

T: + 61 7 4781 5734 E: megan.higgie@jcu.edu.au

“Higgie, Megan” <megan.higgie@jcu.edu.au>

**UCollege Dublin ComputBiology
Dec6-7**

Dear Colleagues,

We are pleased to announce that registration is now open for the second annual

Computational Biology and Innovation PhD Symposium, 6 - 7 December 2011

Please visit the conference website: www.ucd.ie/phdsymposium. The symposium will take place in University College Dublin (UCD) at the Conway Institute of Biomolecular and Biomedical Research. The organising committee of this symposium is composed of PhD students of the UCD Bioinformatics and Systems Biology PhD Programme. Registration deadline: 14th October 2011

Abstract submission deadline (oral or poster): 28th October 2011

Our aim is to bring together young researchers (Masters and PhD students, junior post-docs) in various research areas of computational biology (e.g. genomics, proteomics, systems biology and mathematical modelling) and provide an opportunity for participants to showcase their research in an encouraging interdisciplinary environment. The symposium offers young researchers the opportunity to interact with eminent computational biologists and is the perfect occasion for exchange of innovative ideas and inspiring discussions between students, experienced researchers and industry professionals alike.

Confirmed Speakers: Frank Holstege, University Medical Center Utrecht, the Netherlands Ken Haynes, University of Exeter, UK Robert Insall, Beatson Institute for Cancer Research, UK Additional speakers TBC

Please circulate this announcement to those in your group or your institute who may be interested in attending.

We look forward to welcoming you to University College Dublin this December. If you have any questions, please do not hesitate to contact us.

Kind regards,

UCD Computational Biology and Innovation PhD

Symposium Committee

Sponsors: IRCSET Clique Systems Biology Ireland Enterprise Ireland Roche

UCD Computational Biology and Innovation PhD Symposium Email: phdsymp2011@ucd.ie Website: www.ucd.ie/phdsymposium Computational Biology and Innovation Symposium <phdsymp2011@ucd.ie>

**UOxford Biogeography Sep23-25
Deadline Extended**

Registration for the upcoming IBS Early Career Conference “Advances in Biogeography”, 23-25 September 2011, has been extended to August 31st, 2011.

For more information about the conference & symposium, and to register, please visit <http://www.biogeography.org/html/Meetings/2011Oxford/index.html> If you have any questions, the organizing committee at ibsearlycareerconference@gmail.com would be happy to answer your queries.

Michael Dawson ibsearlycareerconference@gmail.com

Michael Dawson <dawson.mn@gmail.com>

**WoodsHoleMA
Northeast MobileDNA Sep1-3**

FINAL NOTICE “ Registration deadline extended to 08/15 North East Mobile Genetic Element Meeting - 2011 Swope Center MBL - Woods Hole, MA September 1-3, 2011

We are pleased to inform you that the meeting registration website will remain open until Monday August 15 (<http://ws2.mbl.edu/conference/register.asp?conf=MOBILE11>). Participants who wish to present should register and then submit the abstracts by e-mail to the organizers, Irina Arkhipova <iarkhipova@mbledu> or Bill Reznikoff <breznikoff@mbledu>. We will be finalizing the talk schedule after August 15, and need to know the participants preference for a talk or a poster. The major focus areas currently include but are not limited to: Mechanisms of transposition in bacteria; Fungal transposable elements; Epigenetics and

evolution of eukaryotic TEs; Transposons as research tools. Previous meeting notices can be found at http://jbpc.mbl.edu/TGEcluster.html#meeting_schedule .

We look forward to seeing you in Woods Hole this fall!

Bill Reznikoff Irina Arkhipova Co-organizers Marine Biological Laboratory Woods Hole, MA 02543 USA

iarkhipova@mbi.edu

GradStudentPositions

Auckland ExperimentalEvolution	10	UmeaU PlantEvolGenomics	15
DukeU EvolutionBacterialSymbionts	10	UMunster 7 Evolution	16
ETH Zurich HostParasiteEvol	11	UNewBrunswick AlgalEvolutionaryGenomics	16
HeinrichHeineU PlantEvolutionaryGenetics	11	UNewSouthWales EvolutionaryBiol	17
TrinityCollege GrassEvolution	12	UOklahoma EvolutionaryBiol	18
UBasel AlpinePlant EvolutionaryBiol	12	UPuertoRico BiogeogCaribbeanArachnids	19
UDuesseldorf PlantEvolGenet	13	USherbrooke BlueTitEvolution	19
UGeneva ComputationalEvolution	13	USherbrooke UngulatePopulationGenetics	20
UGoettingen MolluscGenomics	14	WashingtonStateU FloralEvolution	21
UIdaho Coevolution	14		
UMainz PlantSystematicsEvolution	15		

Auckland ExperimentalEvolution

“A Marsden-funded PhD studentship is available in Paul Rainey’s Experimental Evolution lab at the New Zealand Institute for Advanced Study (Auckland, NZ). This position provides an opportunity for an outstanding individual to contribute toward a long-term research program aimed at elucidating the principles of genetic evolution.

Working as part of a multidisciplinary team, the student will be responsible for the development of models that describe genetic evolution— particularly the factors that affect the translation of mutation into phenotypic variation. These models will take advantage of a well-established and uniquely powerful experimental system to explore the hypothesis that evolution proceeds via ‘pathways of least resistance’, that is, via those pathways that have the greatest capacity to translate mutation into phenotypic variation (see McDonald et al 2009 Genetics). Informed by experimental insight, the

student will use bioinformatic and Bayesian approaches in conjunction with dynamic equations to create general predictive models. The successful candidate should have a strong background in bioinformatics or mathematical biology and have an interest in evolution and/or development.

This post is of three years duration and available immediately. Any inquiries should be addressed to Eric Libby (e.libby@massey.ac.nz). To apply for the post please send a letter of interest/statement of purpose, CV, and the names of three referees to Vesna Davidovic-Alexander (v.davidovic-alexander@massey.ac.nz).”

Eric Libby <e.libby@massey.ac.nz>

DukeU EvolutionBacterialSymbionts

PH.D STUDENT OPENNING

We are seeking a highly motivated student to join the

lab in the fall of 2012, to explore the evolutionary ecology of bacterial symbionts associated with insects. This Ph.D. student opportunity is available through Dukes Graduate program in the Environment (<http://www.nicholas.duke.edu/programs/doctoral/esp>). Applicants must have strong quantitative skills and prior coursework or research experience in evolutionary biology, ecology, molecular biology, and microbiology. Interested students should contact Jen Wernegreen (j.wernegreen@duke.edu). Please include a CV and statement of research interests with your inquiry.

For more about the lab's research and opportunities to join us, please see: <http://sites.duke.edu/wernegreenlab> Jennifer Wernegreen <j.wernegreen@duke.edu>

ETH Zurich HostParasiteEvol

The Institute of Integrative Biology at ETH Zurich - Experimental Ecology Group - is offering the position of a

PhD student Host-parasite evolutionary ecology: Expression studies, population structure

The anticipated work is part of an ERC Advanced Grant project on alternative host resistance systems and the population structure of parasites (RESIST). It will use, for example, the recently developed genomic resources for a large pollinator, the bumblebee, *Bombus terrestris*, as a technical framework as well as corresponding resources for a common parasite. One of the aims is to identify genes involved in the host-parasite interaction and to study them in populations. Particular emphasis is given to the expression of anti-microbial peptides on the host side, and to the genetic population structure of the parasite on the other side. The work is based on field data and laboratory experiments. We look for candidates that can fill at least one of the key directions of the work (expression / population structure). Depending on the profile, the candidate may have some experience in molecular genetics, genomics, the use of data banks and bioinformatics; or else be acquainted with analyzing parasite populations and inferring genetic structures from field data. Whatever the background, a demonstrated interest in evolutionary biology, population genetics, or ecology is a strong argument.

The project will be embedded in a research group with long-term experience of the system. Starting date is

negotiable, but ideally no later than Jan 2012. Please send applications (CV, Publication list, Names and emails of referees) by email to Prof. P.Schmid-Hempel (psh@env.ethz.ch), ETH Zurich, Institute of Integrative Biology, ETH-Zentrum CHN, CH-8092 Zurich (review of application starts 1 Sep 2011 until filled). Further information on ETH, the group, or life in Zurich can be obtained from www.eco.ethz.ch; for more details email to psh@env.ethz.ch

HeinrichHeineU PlantEvolutionaryGenetics

PhD position in Germany: Plant evolutionary genetics

I am looking for a PhD candidate interested in plant evolutionary genetics. In my lab, we are investigating the genetic basis for symbiont recognition and discrimination in *Lotus* species. A PhD position, funded by the German Science Foundation (DFG), is available immediately to work on this project. This project has both experimental and computational components and will involve functional studies on plants (inoculations with bacteria and trans-gene expression) and classical population genetics. Applicants should have a Master's degree or equivalent in biology or a related field. Previous laboratory experience and coursework in evolutionary biology and genetics are desirable.

My lab has recently moved to Düsseldorf at Heinrich Heine University (www.evol.bio.lmu.de/_rose/). Here you will have access to brand new state-of-the-art research facilities and the added benefit of joining the newly established plant biology graduate program (<http://www.igrad-plant.uni-duesseldorf.de/-Home>). The working language of the research group is English.

The closing date for applications is October 2, 2011, or when the position is filled. Applicants should send a single PDF file containing a statement of interest and previous research experience, curriculum vitae, and contact information for at least two referees to: Dr. Laura Rose (Laura.Rose@hhu.de)

Prof. Dr. Laura Rose

email: Laura.Rose@hhu.de web: www.evol.bio.lmu.de/_rose/ office phone: 0211 81 13406 campus location: 26.03.00.25

Institute of Population Genetics Heinrich-Heine-Universität Universitätsstraße 1 40225 Düsseldorf Ger-

many

Laura.Rose@uni-duesseldorf.de

TrinityCollege GrassEvolution

4-Year PhD studentship: Geographical, ecological and genetic characterisation of perennial biomass grasses

Perennial grasses have a number of characteristics that make them suitable as biomass crops. Environmental benefits include high rates of soil carbon sequestration, soil stabilisation and enhanced biodiversity. They naturally colonise marginal areas of land that often impose severe restrictions on the growth of vegetation and as such are considered poor quality for agriculture. The aim of this PhD project is to collect, identify and characterise novel varieties of C3 grasses (*Dactylis glomerata*, *Festuca arundinacea* and *Phalaris arundinacea*) and the C4 genus *Miscanthus*. These show high and stable productivity and require the minimum of additional inputs when grown on different forms of marginal land. In particular it will study the geographical distribution of perennial grasses of potential use for biomass production and undertake pre-breeding of novel varieties. The PhD project is part of a larger EU-funded collaborative research project called GrassMargins with twelve partners from eight countries representing Northern, Central and Western Europe and partners from Russia and China. Specific objectives of the PhD project are to: 1) collect accessions of *Phalaris*, *Miscanthus* and *Dactylis* in Europe, China and Russia (in all partner countries in the proposal); 2) use geographical mapping and ecological niche modelling to identify areas most suitable for the production of the target species especially marginal land; and 3) investigate genetic diversity of the novel accessions collected or assembled during the project for pre-breeding applications.

The four-year studentship will be supervised by Dr Trevor Hodkinson, Trinity College Dublin (TCD), Prof Mike Jones (TCD) and Dr Susanne Barth (Teagasc, Oak Park, Carlow). The studentship includes a stipend of approximately 16,000 per annum and University fees of approximately 6,000 per annum. Non-EU applicants are charged additional fees. It is anticipated that the project will start in October 2011, subject to confirmation of project funding.

Applications are sought from suitably qualified candidates (first class or upper second class honours degree or equivalent) to undertake doctoral research at

the University of Dublin, Trinity College (www.tcd.ie/naturalscience). All applications must include the following documents in one email: 1) A covering letter of motivation; 2) a complete curriculum vitae; 3) certified copies of academic transcripts if not a graduate of TCD; and 4) Evidence of proficiency in English. The application deadline is August 21 2011, but the position will remain open until filled. All applications for this studentship must be made to Trevor.Hodkinson@tcd.ie and Mike.Jones@tcd.ie.

Dr Trevor Hodkinson Senior Lecturer in Botany Botany Building School of Natural Sciences Trinity College Dublin Ireland

Phone 00353 1 8961128 Fax 00353 1 8961147 email Trevor.Hodkinson@tcd.ie <http://people.tcd.ie/hodkinst> <https://www.tcd.ie/Botany/tercentenary/> http://www.cambridge.org/gb/knowledge/isbn/item5736973/?site_locale=en_GB Plant Ecology & Diversity <http://www.tandf.co.uk/journals/tped> 2010 Impact factor: 2.05

Trevor Hodkinson <HODKINST@tcd.ie>

UBasel AlpinePlant EvolutionaryBiol

Open PhD position in Evolutionary Biology of Alpine Plants

A PhD position is available in the Group of Plant Population Ecology at the Botanical Institute, University of Basel in a research project with the title: "How local adaptation and phenotypic plasticity allow plants to survive in a changing Alpine landscape: Effects of fine-grained vs. coarse-grained environmental variability".

The project is a continuation of earlier research in my lab and includes reciprocal transplantation among field sites, controlled experiments in the greenhouse and molecular work. I will contribute to a still poorly understood question of evolutionary biology: To what extent is local adaptation of alpine plants shaped by phenotypic plasticity and to what extent is it a result of fixed genotypic differences?

Genotypic variability and phenotypic plasticity are complementary mechanisms adjusting plants to environmental heterogeneity. Phenotypic plasticity received increased attention because of its possible role for the colonization of new habitats or to mitigate climate

change. There is a shortage of studies testing the role of phenotypic plasticity in the field. The main hypotheses to be tested in this project is, that natural selection by fine-grained environmental variability should have favored high phenotypic plasticity, while coarse-grained environmental variability should have favored fixed genotypic variability.

The successful candidate should be motivated to work on alpine evolutionary ecology. Applicants with experiences in experimental population biology and a sound background in statistics will be preferred, and skills or interest in molecular work would be appreciated. Applicants should enjoy working in the field as well as in the lab. The position is funded for three years. Preferably, work starts this fall, or by arrangement. Starting salary will be CHF 40'200.- per year.

Applications including a statement of interest, CV, and the names and addresses of 2 academic references should be send to Prof. Dr. Jürg Stöcklin, Botanical Institute, Schönbeinstrasse 5, CH-4056 Basel, Switzerland. (e-mail: juerg.stoecklin@unibas.ch) <http://pages.unibas.ch/botschoen/stoecklin/index.shtml>. Prof. Dr. Jürg Stöcklin Botanical Institute, Dep. of Ecology, University of Basel Schönbeinstr. 6, CH-4056 BASEL Switzerland +41 61 267 35 01, juerg.stoecklin@unibas.ch <http://pages.unibas.ch/botschoen/stoecklin/index.shtml> Juerg Stoecklin <juerg.stoecklin@unibas.ch>

UDuesseldorf PlantEvolGenet

PhD position in Duesseldorf, Germany: Plant evolutionary genetics

I am looking for a PhD candidate interested in plant evolutionary genetics. In my lab, we are investigating the genetic basis for symbiont recognition and discrimination in Lotus species. A PhD position, funded by the German Science Foundation (DFG), is available immediately to work on this project. This project has both experimental and computational components and will involve functional studies on plants (inoculations with bacteria and trans-gene expression) and classical population genetics. Applicants should have a Master's degree or equivalent in biology or a related field. Previous laboratory experience and coursework in evolutionary biology and genetics are desirable.

My lab has recently moved to Düsseldorf at Heinrich Heine University (www.evol.bio.lmu.de/_rose/). Here

you will have access to state-of-the-art research facilities and the added benefit of joining the newly established plant biology graduate program (<http://www.igrad-plant.uni-duesseldorf.de/Home>). The working language of the research group is English.

The closing date for applications is October 2, 2011, or when the position is filled. Applicants should send a single PDF file containing a statement of interest and previous research experience, curriculum vitae, and contact information for at least two referees to Laura.Rose@hhu.de

Prof. Dr. Laura Rose

Institute of Population Genetics Heinrich-Heine-Universität Universitätsstraße 1 40225 Düsseldorf Germany

Laura.Rose@uni-duesseldorf.de

UGeneva ComputationalEvolution

PhD position opened in Switzerland for a Computer scientist. Development of stochastic heuristics for inferring the evolution of DNA & protein sequences http://www.lanevol.org/LANE/positions_opened.html In the context of developing heuristics for molecular phylogeny inference, we are seeking a creative and highly motivated computer-scientist with a strong interest in biological molecular evolution and clear skills in optimisation and parallelisation techniques. The position is for 3 years or more and can start anytime (preferably in January 2012).

The successful candidates will extensively compare the performances of existing stochastic heuristics (including the 'Meta-population Genetic Algorithm', see www.metapiga.org), and develop new ones, for large phylogeny inference. The code will also have to be developed for Cloud/Grid as well as GPU computing.

Applications: Please send (combined into one SINGLE pdf file) a brief letter of interest, your CV, as well as contact information of two references to: Michel Milinkovitch (Michel.Milinkovitch[at]unige[dot]ch), Laboratory of Artificial & Natural Evolution, University of Geneva, Switzerland.

Literature: - The metapopulation genetic algorithm: an efficient solution for the problem of large phylogeny estimation. Alan R. Lemmon & Michel C. Milinkovitch PNAS 2002, 99: 10516-10521 - MetaPIGA v2.0: max-

imum likelihood large phylogeny estimation using the metapopulation genetic algorithm and other stochastic heuristics. Raphaël Helaers & Michel C. Milinkovitch *BMC Bioinformatics* 2010, 11:379

UNIGE (the University of Geneva) is one of Europe's leading universities and it shares the international calling of its host city, Geneva, a centre of international and multicultural activities with cosmopolitan tradition. Geneva also provides an outstanding natural environment for outdoor activities.

Prof. Michel C. Milinkovitch Laboratory of Artificial & Natural Evolution Dept of Genetics & Evolution University of Geneva Sciences III, 30, Quai Ernest-Ansermet 1211 Genève 4, Switzerland

Michel.Milinkovitch@unige.ch

Tel +41(0)22 379 67 85 Fax +41(0)22 379 67 95

www.lanevol.org Michel.Milinkovitch@unige.ch
Michel.Milinkovitch@unige.ch

UGoettingen MolluscGenomics

PhD position in molluscan biomineralisation at the University of Goettingen, Germany:

A 3 year PhD position is available within the Courant Research Centre Geobiology to work on the molecular mechanisms of shell formation in the freshwater gastropod *Lymnaea stagnalis*. The successful candidate will join a small but growing group that applies molecular techniques to study the processes of biomineralisation in various organisms. The project will involve the high-throughput identification and characterisation of shell forming genes and proteins in *L. stagnalis*.

Resources available for this project include a shallow draft genome of *L. stagnalis*, next generation EST datasets derived from various tissues (including the mantle) and a proteome dataset derived from the shell of *L. stagnalis*. Infrastructure includes an automated high throughput in situ detection system, real time qPCR machine, chemiluminescent detector and all the standard equipment for routine molecular techniques.

The applicant should have a degree within a field of molecular evolution or molecular biology, and be able to display relevant experience with molecular techniques (essential), and be familiar with various bioinformatic analyses (desirable).

All applications should include the following:

- a statement of research interests (or letter of motivation) - copies of any relevant publications - at least 1 letter of reference (preferably 2) and the corresponding contact details of these referees.

Applications must be submitted before September 30, 2011 and should be emailed to Daniel Jackson (djackso@uni-goettingen.de). Informal enquiries are also welcome.

Goettingen is a student friendly town, and is located in central Germany with easy access to the rest of Europe. The University has an excellent academic reputation and is one of the nine German Universities of Excellence.

The University of Goettingen actively seeks to foster opportunities for female scholars and therefore strongly encourages qualified women to apply. Candidates with disabilities who are equally qualified for the position will receive special consideration.

Junior Professor Daniel J. Jackson Courant Research Centre Geobiology Georg-August University of Göttingen Goldschmidtstr.3 37077 Göttingen Germany
Tel: +49 (0) 551 39 14177 Fax: +49 (0) 551 39 7918

djackso@uni-goettingen.de <http://www.uni-goettingen.de/en/102705.html> "Jackson, Daniel"
<djackso@gwdg.de>

UIIdaho Coevolution

Graduate Position in Coevolutionary Biology

The Nuismer lab at the University of Idaho is recruiting a Ph.D. student with an interest in modeling coevolving species interactions. This position is available starting in fall 2012 and will provide support in the form of a research assistantship for three years as part of a project funded by the National Science Foundation (NSF). The general goal of this project is to better understand how the number of traits involved in interactions between species influences the coevolutionary process. Although it is expected that a portion of the student's dissertation will be directly related to the objectives of the funded project, much flexibility exists with regard to additional dissertation projects that may be pursued. Although some background in mathematics and/or computation is desirable, any prospective student with an enthusiasm for learning new mathematical approaches to studying evolutionary biology is

encouraged to apply.

Interested students should visit the Nuismer laboratory homepage (http://www.webpages.uidaho.edu/~snuismer/Nuismer_Lab/) for more information about ongoing research projects in the lab, and the Department of Biology and Graduate Program in Bioinformatics and Computational Biology at the University of Idaho.

If you are interested in this opportunity please send a CV and a statement outlining your motivation for pursuing graduate studies in coevolutionary biology.

Cheers,

Scott Nuismer

Scott Nuismer Associate Professor Department of Biological Sciences University of Idaho Moscow, Idaho 83844 Phone: 208 885 4096 http://www.webpages.uidaho.edu/~snuismer/Nuismer_Lab/ Scott Nuismer <snuismer@gmail.com>

UMainz PlantSystematicsEvolution

PhD position in plant systematics and evolution in Mainz, Germany

A 3 year PhD position funded by the Deutsche Forschungsgemeinschaft (DFG) is available at the Institut für Spezielle Botanik und Botanischer Garten, Johannes Gutenberg-Universität Mainz, Germany. The main focus of the project will be to investigate the evolutionary history of *Senecio* s.str. (Asteraceae) in Tropical Africa within the framework of a project on the influence of climate variation on a geological time scale on the African high mountain flora, carried out by Dr. Berit Gehrke. The thesis will be supervised by Dr. Gehrke and Prof. Kadereit.

You should have a master degree (or equivalent) in the field of biology and a strong interest in evolution and plant systematics. Enthusiasm for pursuing fieldwork in Africa is welcome. Good working knowledge of English, written and oral, is essential. Gaining experience in teaching is possible.

The Institut für Spezielle Botanik und Botanischer Garten at the University of Mainz consists of two professors and their academic staff, as well as several Post-Docs, PhDs, and MSc students. The main overall research topic of our institute is patterns and processes of evolution in plants. The institute is located at the

University Campus adjacent to the botanical garden and offers good research facilities, a stimulating working environment and friendly atmosphere for graduate students in systematic botany.

The University of Mainz has an active biological research community, dealing with various aspects of organismal and molecular biology and anthropology. The city also offers great quality of life through active cultural programs and infrastructure of the Rhein-Main area with Wiesbaden and Frankfurt being in close proximity.

Salary is according to the Deutsche Forschungsgemeinschaft (DFG) guidelines. Funding, including for laboratory and field costs, is available for 3 years.

If you are interested, please send (preferentially by e-mail) a letter describing your motivation and research interests, C.V., publications if any, and contact details of two academic referees. Applications will be screened beginning 15 September until the position is filled. Starting date of the PhD.: in 2011 or later. If you have further question, do not hesitate to contact me.

Berit Gehrke

Institut für Spezielle Botanik und Botanischer Garten Johannes Gutenberg-Universität Anselm-Franz-von-Bentzelweg 9a 55099 Mainz Germany

Telefon: ++49(0)6131/39-22928 E-mail: gehrke@uni-mainz.de Website: <http://www.spezbot.fb10.uni-mainz.de/home.d/index.htm> "Gehrke, Berit" <gehrke@uni-mainz.de>

UmeaU PlantEvolGenomics

PhD student position in Plant Evolutionary Genomics

A PhD student position is available with a continuing project to study natural hybridization and introgression between *Populus trichocarpa* and *Populus fremontii* in California and Nevada. Next-generation sequencing and genotyping approaches will be used to investigate the causes and consequences of gene flow between the two species. Collaborative opportunities exist with the Canadian Forest Service for comparative analyses with the *P. balsamifera* and *P. deltoides* hybrid system, as well as other established research groups that work on *Populus* here in Umeå.

Knowledge of population genetics, evolutionary analy-

ses, molecular methods and bioinformatics is highly desirable. Experience with fieldwork is an asset, but not a requirement. The successful applicant should possess creativity, autonomy and a dedicated team spirit. Excellent proficiency in English is required, as English is the working language in the research group and at the department. The anticipated start date is January 2012, although alternative dates can be negotiated.

A complete version of this announcement is available at http://www8.umu.se/umu/aktuellt/arkiv/-lediga_tjanster/313-767-11.html#eng. Your application should include a short description of your research interests and why you are interested in the position, CV, certificates from higher education, copies of Bachelors/Masters thesis, and contact information for 3 references.

For more information, contact Stacey Lee Thompson, stacey.thompson@emg.umu.se.

Your complete application, marked with reference number 313-767-11, should be sent to jobb@umu.se (state the reference number as subject) or to the Registrar, Umeå University, SE-901 87 Umeå, Sweden to arrive September 30, 2011 at the latest.

stacey.thompson@emg.umu.se

UMunster 7 Evolution

Westfälische Wilhelms-Universität Münster

* * *

The University of Münster invites applications from outstanding candidates for PhD positions within its “Münster Graduate School of Evolution” (MGSE) Initiative.

The MGSE Initiative brings together researchers from the biosciences, the geosciences, medicine, bioinformatics, mathematics, philosophy, education research, as well as theology, in order to develop a unifying framework for interdisciplinary research and education in evolution.

7 PhD positions

(50% TV-L E13, 3 years)

for

Interdisciplinary Evolution Research

in Biology, Medicine, Mathematics, or Philosophy

within the “Münster Graduate School of Evolution” Initiative

We invite applications for PhD projects from all research areas of MGSE. In addition to their disciplinary focus, the proposed projects will have an interdisciplinary aspect. The PhD candidates will be members of a specific lab/group and will be co-supervised by one or two MGSE researchers from different disciplines.

Project supervisors will also be open for proposals of new project ideas. The positions are to be filled as soon as possible.

Applicants must hold a Diploma/Master degree or an equivalent in a discipline related to the project. Interested candidates should submit their Curriculum Vitae, diploma/master thesis abstract, and references. In addition candidates should also provide a designation of the favoured project, as well as a description of their expectations and motivations to apply for an interdisciplinary programme.

This should be sent as a single PDF file to andreas.wessel@uni-muenster.de <<mailto:andreas.wessel@uni-muenster.de>>, to arrive by *3rd October 2011*.

The University of Münster is an Affirmative Action, Equal Opportunity employer committed to excellence through diversity.

For more information refer to the MGSE website (<http://ieb.uni-muenster.de/mgsei/>) or contact

Prof Joachim Kurtz

Institute for Evolution and Biodiversity, WWU Münster, Hüfferstraße 1, D-48149, Germany

joachim.kurtz@uni-muenster.de

Andreas Wessel <awess.02@uni-muenster.de>

UNewBrunswick AlgalEvolutionaryGenomics

Graduate Student Position in Algal Evolutionary Genomics

Biology Department

University of New Brunswick, Fredericton, Canada

One graduate student (Ph.D.) position is available in the laboratory of Dr. Adrian Reyes-Prieto in the Biology Department of the University of New Brunswick at

Fredericton.

I seek an enthusiastic graduate student with strong interests in genomic sciences, evolutionary biology and microbial diversity. The candidate should have strong research skills, and some experience with molecular biology techniques and bioinformatics. The selected candidate is expected to join the lab as soon as January 2012. MSc candidates with equivalent experience will also be considered.

Selected student will participate on genome-scale projects investigating diverse aspects of the origin and evolution of photosynthetic eukaryotes. The selected candidate will generate genomic and transcriptomic data from diverse algae, such as Glaucophytes and Prasinophytes, for evolutionary and comparative studies. Research projects comprise “next-generation” sequencing, bioinformatics analyses, phylogenomics and experimental approaches (biochemistry and proteomics). This position will provide the opportunity to conduct novel research in microbial comparative genomics, organelle evolution and evolutionary biology. NSERC funds for stipends/salaries up to 4 years are available.

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

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

Information on graduate studies and application procedures for the Department of Biology at University of New Brunswick can be found online at www.unb.ca/fredericton/science/biology/Degree_Info/Graduate.html Adrian Reyes-Prieto Ph.D. University of New Brunswick, Biology Department 269 Bailey Hall, Fredericton New Brunswick, E3B 5A3 Canada

Adrian Reyes <areyes@unb.ca>

PhD or M Phil Positions in Genetics and Invasive Species

Project 1: The molecular genetics of behavioural mating-isolation in two Australian fruit-fly pests. Dr K Raphael, A/Prof W Sherwin et al. We work on true fruit flies (Tephritidae), native to Australia. Unlike *Drosophila* which feeds on fermenting fruit, these species lay their eggs in ripening fruit on the tree and are therefore serious pests of horticulture. This project targets two species of native fruit-fly pests (Queensland fruit flies), which are extremely closely-related but mate at different times of day. We have received funding to produce transcriptomes of the two species, using next-generation sequencing. This new technology, which sequences to a much greater depth than possible previously, will form part of a larger program to discover differences in gene sequence and expression that distinguish the species pair. The findings will be important for studies of fly behaviour and pest status, leading to more effective control strategies in the future.

Project 2: Sex and the dominant male determiner in Australia's true fruit flies. Dr M Frommer, Dr D Shearman. Funds from ARC. A novel method to separate male and female embryos of the Queensland fruit fly will enable us to discover the molecular switch that causes embryos to change from the female to the male developmental pathway when they carry a Y chromosome. The results will lead to major improvements in the control of horticultural pest insects.

Project 3: Weeds adapting to Australia: rate and direction of evolution. A/Prof A Moles, A/Prof W Sherwin, Prof R Frankham. As well as threatening biodiversity, introduced species also allow us to study processes of adaptation and invasion. We are measuring changes in form, function and genetic make-up of introduced species since their arrival in Australia. We have used molecular genetic approaches to identify the source populations, and collected seed from source and invasion populations. This position would focus on common-garden experiments to identify adaptive differences that have occurred during the invasion process. You should be qualified in population genetics, or molecular sciences. There may be some fieldwork. Ecology qualifications are desirable..

PROCEDURE: (1) DISCUSS: Email letter with CV, academic record, and details of two academic referees, to A/Prof Bill Sherwin (W.Sherwin@unsw.edu.au). For further information phone: +61-2-9385-2119. Your letter should include explicit explanation of how your results are sufficient to allow application for a SCHOLARSHIP at UNSW (see below for grades required). We cannot consider other applications.

(2) PhD M/Phil CANDIDACY APPLICATION: Requirements for PhD are BSc (Hons 1), MSc, or equivalent. For MPhil, requirement is BSc. Specific areas essential and desirable are shown for each project above. Solid research and communication skills. Full NSW driver license desirable. For exact timing and details www.grs.unsw.edu.au/homepage.html (3a) PhD SCHOLARSHIP APPLICATION - LOCAL: Citizens or permanent residents of Australia/NZ, apply for APA and UPA at UNSW. You will need to have completed a research degree (eg MSc or BSc Honours research year), with results which are equivalent to 85% or higher, in order to be competitive for these scholarships. Publications in ISI-listed international journals will help also. Applications can be lodged from 5 September, 2011, for study commencing in First Session in 2012. For exact application timing and details see <http://research.unsw.edu.au/postgraduate-research-scholarships> (3b) PhD SCHOLARSHIP APPLICATION - INTERNATIONAL: Applicants who are NOT-citizens or permanent residents of Australia/NZ, can apply for IPRS and UIPA at UNSW. In order to be competitive for these scholarships, you will need to have completed a research degree (eg MSc or BSc Honours research year), with results which are equivalent to 95% or higher. Note that a coursework MSc is NOT acceptable. Publications in ISI-listed international journals will help also. Applications are due 31st August, 2011, for study commencing in First Session in 2012. For exact timing and details see www.grs.unsw.edu.au/scholarships/internationalschols.html (3c) M Phil SCHOLARSHIP APPLICATION. Local and international students can apply for a \$4000 stipend from the EERC, UNSW. International students can apply for a tuition fee waiver scholarship, provided that they can formally guarantee the remainder of their own stipend www.grs.unsw.edu.au/scholarships/internationalschols.html www.eerc.unsw.edu.au/GradProgram.html

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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>

UOklahoma EvolutionaryBiol

Ph.D. Graduate Studentship V Graduate Research As-

sistantship (GRA)

I am looking for a highly-motivated, bright and energetic student to join my laboratory in July 2012 as a Ph.D. graduate student. The first two years (i.e. 24 months) are funded off of a Graduate Research Assistantship (GRA). When a student is accepted into the graduate program in Zoology, continued support in the form of either teaching assistantships or GRA's (depending on grant funding) is virtually assured to students in good standing. The successful candidate must apply and be accepted into the Graduate Program in the Dept of Zoology < <http://www.ou.edu/cas/zoology/> > (i.e. either as Zoology or Ecology and Evolutionary Biology (EEB) < <http://www.ou.edu/eeb/> >). Information on how to apply can be found here < http://zoology.ou.edu/how_to_apply.htm >. Currently, graduate research or teaching assistants receive tuition waivers, and health care coverage.

The GRA is expected to work 20 hours per week in my lab (0.50 FTE), while also conducting their own dissertation research. I have a modern, well-equipped laboratory located at the Biological Station (OU Biological Station < <http://www.ou.edu/uobs> >), an approximately 2-hr drive south of the OU main campus on the north shore of Lake Texoma, as well as lab space on the main OU campus. Shared space is also available in the Zoology Core Molecular Lab (ZCML) < <http://zoology.ou.edu/zcml.htm> > on main campus. The ZCML houses a variety of equipment for molecular ecology/evolution studies, including an ABI 16-capillary DNA analyzer. I am also a member of the core EEB faculty, an inter-departmental Ph.D. program. The ideal situation is to find a student whose interests mesh very closely with my own.

My group and I study the mechanisms (e.g. selection, migration) that influence the maintenance of genetic diversity in asexual-sexual species complexes, using the freshwater cladoceran genus, *Daphnia*, as our primary model organism. My research bridges the fields of population genetics, environmental genomics, and evolutionary ecology. In my lab, a variety of molecular techniques (e.g. microsatellites, DNA sequencing, microarrays) are used to examine the population genetic structure of aquatic organisms, with most of my work focusing on zooplankton.

We currently have several major projects. The first project with Canadian and German colleagues has been examining long-term (i.e. decadal) changes in arctic rockpool and tundra pond population genetic structure, as well as community structure among zooplankton related to climate change. A second major project funded by the National Science Foundation (NSF) with col-

leagues at Oklahoma State Univ. and Indiana Univ. is focusing on the ecological and genetic information held in lake/pond sediment egg banks of freshwater invertebrates, primarily *Daphnia*. We employ a variety of techniques spanning the fields of molecular genetics, ecology (i.e. direct hatching of eggs, selection experiments), and environmental genomics (i.e. microarray experiments) to examine long-term (i.e. decades, centuries) shifts in population genetic structure that may be associated with concomitant shifts in environmental factors (e.g. nutrient/eutrophication history). We aim to look at how shifts in environmental factors may influence long-term temporal genetic heterogeneity in natural populations. A third project with colleagues in Norway, U.S., and U.K. is examining the relationship between genome size, growth rate, and elemental composition (biological stoichiometry - C:N:P) using the freshwater microcrustacean, *Daphnia*, as one of our model organisms.

If you would like to get a better view of the facilities here at the U. of Oklahoma, please visit the OU Biological Station < <http://www.ou.edu/uobs> > website. Additional info is available on my lab's website < <http://faculty-staff.ou.edu/W/Lawrence.J.Weider-1/> >.

For further information, please contact:

Lawrence J. Weider, Director of Research The University of Oklahoma Biological Station ljweider@ou.edu; phone: 1-405-325-4766 or 325-7438; FAX: 1-405-325-0835

"Weider, Lawrence J." <ljweider@ou.edu>

UPuertoRico BiogeogCaribbeanArachnids

UPuertoRico.BiogeogCaribbeanArachnids

*Ph. D student to study biogeography of Caribbean arachnids***

We are seeking a highly motivated PhD student to join our NSF-funded research team that is addressing fundamental evolutionary and biogeographic questions using Caribbean arachnids. The team includes researchers from the University of Puerto Rico, Lewis and Clark College, University of Kansas, and collaborators from multiple other institutions. The research will largely consist of comparative biogeographic analyses of Caribbean arachnids that represent a range of dispersal abilities and have fossil represen-

tation. The project involves field work every year for the next three years and includes a large number of Caribbean islands, as well as nearby continental landmasses. To learn more about the project please see: <http://www.islandbiogeography.org/> The selected candidate will obtain his/her PhD from the University of Puerto Rico, Rio Piedras at the Agnarsson lab (<http://www.theridiidae.com/>), and have the opportunity to spend time at the Binford lab at Lewis and Clark College (<http://legacy.lclark.edu/~binford/>) and/or the Selden lab at the University of Kansas (<http://homepage.mac.com/paulselden/Home/>). The candidate will also have an opportunity to collaborate with a range of world taxonomic experts on various arachnids, and work at the Smithsonian Institution, Washington DC to gather molecular data and secure tissue samples for long term storage at the Global Genome Initiative facility. We seek a candidate with strong previous research and fieldwork experience. Knowledge of phylogenetic methods and molecular work is essential, and research experience in the field of biogeography/phylogeography is highly desirable. Experience with spiders and other arachnids is an asset, but not necessary. The position is funded as a research assistant for a minimum of 3 years, starting as soon as possible. Additional years will be funded through a graduate teaching assistantship at the University of Puerto Rico (one year minimal teaching requirement). Please apply by sending your CV, including the email addresses of two referees, and a letter of motivation to Ingi Agnarsson (iagnarsson@gmail.com) by October 15, 2011. The selected candidate will then need to apply to the doctoral program of the Department of Biology, University of Puerto Rico (<http://biology.uprrp.edu/>), by December 15, 2011. Please direct questions to Ingi Agnarsson (iagnarsson@gmail.com) or Greta Binford (binford@lclark.edu).

– Ingi Agnarsson Assistant Professor and director of Museum of Zoology University of Puerto Rico Department of Biology PO Box 23360 San Juan, P.R. 00931-3360

ph: 787-764-0000 ext. 2908 web: <http://theridiidae.com/Agnarsson%20lab.html> Ingi Agnarsson <iagnarsson@gmail.com>

USherbrooke BlueTitEvolution

We are seeking a motivated PhD student to join our research team involving researchers from the De-

partment of Biology at the Université de Sherbrooke, Québec, Canada and from the Centre d'écologie fonctionnelle et évolutive, Montpellier, France.

The proposed project will investigate natural selection acting on reproductive traits using long-term datasets with phenotypic and pedigree data collected in populations of blue tits (*Cyanistes caeruleus*) in Corsica, France. The project will benefit from data gathered over 10 to 35 years in natural populations to establish the strength and variability of selection across contrasted environments and at different geographical scales. A quantitative genetic approach will allow to link these selection patterns with genetic co(variances) displayed by reproductive traits, providing insights into evolutionary potentials of these characters.

The selected candidate will share his time between the Université de Sherbrooke and Université de Montpellier II. The fieldwork in Corsica will take place every year from April to June. Ideally, the candidate will have previous research and fieldwork experiences; skills in handling birds would also be an advantage. A good background in evolutionary ecology and biostatistics is also desirable.

The position is funded for three years, starting as soon as January 2012. Please apply by sending your CV, including the email addresses of two referees, and a letter of motivation by 7 October 2011 to Dany.Garant@Usherbrooke.ca

Nous cherchons un étudiant au PhD pour rejoindre notre équipe de recherche constituée de chercheurs du département de biologie l'Université de Sherbrooke, Québec Canada et du Centre d'écologie fonctionnelle et évolutive à Montpellier, France.

Le projet proposé portera sur l'analyse de pressions de sélection agissant sur les traits reproducteurs dans des populations suivies à long terme de mésanges bleues (*Cyanistes caeruleus*) en Corse, France. Le projet bénéficiera de données phénotypiques et de pedigree récoltés sur des périodes de 10 à 35 ans pour établir la force et la variabilité de la sélection dans habitats contrastés et à différentes échelles du paysage. Une approche de génétique quantitative pourra permettre de relier les patrons de sélection aux (co)variances génétiques des traits reproducteur, de manière à explorer le potentiel évolutif de ces caractères.

Le candidat retenu sera inscrit en cotutelle à l'Université de Sherbrooke et à l'Université de Montpellier II. Les travaux de terrain se dérouleront chaque année d'avril à juin en Corse. Idéalement, le candidat aura de l'expérience avec les travaux de terrain, avec la

manipulation d'oiseaux et de bonnes connaissances en écologie évolutive et en biostatistiques.

Le poste est financé pour 3 ans à compter de janvier 2012 au plus tôt. Veuillez envoyer un CV, une lettre de motivation et les coordonnées de deux références avant le 7 octobre 2011 à Dany.Garant@Usherbrooke.ca

Dany Garant Associate Professor Department of Biology University of Sherbrooke Sherbrooke QC J1K 2R1 Canada

Tel: (819) 821-8000 ext.63198 Fax: (819) 821-8049

<http://pages.usherbrooke.ca/dgarant/>-

Dany.Garant@Usherbrooke.ca

Dany.Garant@Usherbrooke.ca

USherbrooke UngulatePopulationGenetics

Ph.D. Linking traits, fitness and population dynamics.

I am looking for a Ph.D. student to explore the links between genetically based traits, fitness and population dynamics. This research is part of a long-term program in collaboration with Prof. Marco Festa-Bianchet at the Université de Sherbrooke.? Since 1971, individually marked bighorn sheep have been monitored from birth to death at Ram Mountain. The student will collect behavioural observations during two or three seasons (May to September) and assist with capture, marking and measuring of the sheep, collecting samples for hormone and DNA analyses.

Assets for this position include a M.Sc. degree, publications, a knowledge of 'basic' French (or a strong willingness to learn it), fieldwork experience, strong quantitative skills.? Canadian candidates will be preferred, but strong foreign candidates will be seriously considered.

A tax-free scholarship is available, and financing for travel, fieldwork and lab expenses has been secured.? The program can begin in either January, May or September 2012.

For information on my research, see <http://pages.usherbrooke.ca/fpelletier/> Interested candidates should e-mail a CV, a statement of research interests and the e-mails of two referees before the 1st of October to Fanie Pelletier: fanie.pelletier@usherbrooke.ca

Fanie Pelletier, Ph.D. Professeure AgrÃ©gÃ©e Uni-

versit  de Sherbrooke D partement de biologie
 Facult  des Sciences Sherbrooke (Qu bec)
 CANADA J1K2R1

tel.: 819-821-8000 poste 61092 fax: 819 821-8049
 fanie.pelletier@usherbrooke.ca

Fanie Pelletier <fanie.pelletier@usherbrooke.ca>

WashingtonStateU FloralEvolution

Washington State University, Plant Evolutionary Genetics

The Busch lab at Washington State University is recruiting a Ph.D. student with broad interests in ecology and evolution. This student would begin in the fall of 2012 and be partially supported by a research assistantship that is part of a 5 year collaborative proposal funded by the National Science Foundation (NSF). The research program will examine the breakdown of self-incompatibility, to determine the mode and tempo whereby this complex adaptation is lost in nature. This proposal is conducted in collaboration with the lab of Dr. Christopher Herlihy at Middle Tennessee State University, and focuses on the mustard species *Leavenworthia alabamica* as a model. The Ph.D. student will be supported for 2 years on a 12 month basis. During this time, the student will lead manipulative field experiments, oversee undergraduate researchers in the field, and use population-genetic techniques to estimate parentage and gene flow. Work conducted during

the RA appointment would be expected to be part of a larger body of dissertation work that is open to the student. I expect that the incoming Ph.D. student would have broad interests in the maintenance of genetic variation and be fascinated by ecological and evolutionary processes.

Interested students should see the Busch laboratory homepage (<http://sbs.wsu.edu/faculty/?faculty/-148>) to read about the diversity of research topics that are being investigated by lab members.

Washington State University has a long history of supporting outstanding research in ecology and evolutionary biology. Current areas of faculty expertise range from physiology, ecology, systematics, evolutionary ecology, and population genetics. Research in plant biology at WSU benefits from excellent greenhouse and research facilities and the Betty Higinbotham fund, which provides substantial monetary support for students conducting field or off-campus research. The Ph.D. student would also be guaranteed monetary support during the remainder of their dissertation by serving as a teaching assistant. To learn more about graduate studies in the School of Biological Sciences at WSU, please read further on our website (<http://sbs.wsu.edu/grad-studies>).

If you are interested in this opportunity for RA support and studying floral evolution for your Ph.D., please send me a CV and a statement outlining your motivation to pursue graduate studies in ecology and evolution.

Sincerely,

Jeremiah W. Busch [jwbusch\[at\]wsu.edu](mailto:jwbusch[at]wsu.edu)

Jobs

BrighamYoungU PlantBiology	22	LBBE Lyon PopulationGenetics	25
BrownU ProgrammerBioinformatician	22	LMU Munchen MolecularSystematics LowerPlants	25
CornellU BioinformaticsProgrammer	23	MaxPlanckInst ResAssist LuikotaleBonobo	26
Darmouth EvolutionaryGenomics	23	Mexico Biodiversity	27
DukeU LemurCenterManager	24	MiddleburyCollege OneSemester TeachingEvol	27
IMBG Crete 2 Bioinformatics	24	NewZealand TwoYear Bioinformatics	28

OhioStateU EvolutionaryGenomics	28	UNeuchatel EvolutionParasites	34
PrincetonU EvolutionaryBiolPrincetonU Evolutionary-Biol	29	UNewMexico TwoEvolEcologyFaculty	35
SangerInst BacterialBioinformatician	29	USouthCarolina ConservationBiol	36
Taipei FishBehaviourEvolution	30	UToronto Scarborough ConservationBiol	36
TunghaiU Taiwan EvolutionaryBiol	31	UVermont Systematics	37
UAlabama ResTech DrosophilaEvolution	31	UWesternOntario MolecularEvolution	38
UBergen SystematicBotany	32	UWisconsinMadison DigitizingCollections	38
UBristol Phylogenomics	32	UWisconsinMadison InformationSpecialist	39
UMalaya Bioinformatics	33	WageningenU LabAssist PlantMolEvol	41
UMichigan EvolutionaryBiol	33	ZFMK Bonn DipteraCurator	41
UMunster IntegrativeEvolution	34		

Brigham Young U Plant Biology

Plant Biology - Brigham Young University

The Department of Biology seeks to fill a full time, continuing status position in plant biology. Qualified applicants with a PhD, postdoctoral experience, and expertise in evolutionary or organismal biology (including, but not limited to, modern applications such as molecular ecology, systematics, genomics, evolutionary development, and so forth) are encouraged to apply. The successful candidate is expected to maintain an externally funded research program involving both undergraduate and graduate students. Excellence in teaching is required; teaching responsibilities will include general biology, plant diversity, and a graduate course in the candidate's area of expertise. The department offers competitive start-up packages and reduced teaching loads for new faculty. Interested persons should complete a BYU faculty application form at <https://-yjobs.byu.edu> and attach a current CV and statements of teaching and research interests. Questions can be directed to: Dr. Clint Whipple, Plant Biology Search Committee Chair, 401 WIDB, Department of Biology, BYU, Provo, UT 84602.

The review process will begin September 15th, 2011 for this position and continue until the position is filled. Additional department and college information is available at website: <http://biology.byu.edu/home>. Brigham Young University, an equal opportunity employer, does not discriminate on the basis of race, color, gender, age, national origin, veteran status, or against qualified individuals with disabilities. All faculty are required to abide by the university's honor code and dress and grooming standards. Preference is given to qualified candidates who are members in good standing

of the affiliated church, The Church of Jesus Christ of Latter-day Saints. Successful candidates are expected to support and contribute to the academic and religious missions of the university within the context of the principles and doctrine of the affiliated church

leigh_johnson@BYU.EDU

Brown U Programmer/Bioinformatician

The Ramachandran lab at Brown University is looking for a full-time programmer/bioinformatician to participate in ongoing research projects in the lab focusing on human population genetics and genetic variation in domesticated animals. For more information on research projects see: <http://www.brown.edu/-Research/Ramachandran.Lab/> The position's primary duties will be curating genetic databases, implementing bioinformatics pipelines for the analysis of genome-wide and next-generation sequencing datasets, and administering the lab's cluster and data storage. The successful applicant will also have opportunities to contribute to collaborations with other labs in the Division of Biology and Medicine and the Division of Applied Mathematics at Brown.

Qualifications sought: - Four-year college degree in Computer Science or related field and at least 2 years professional programming experience. - Proficiency in programming using R, UNIX platforms, and at least two of the following: C, Java, Perl, Python - Excellent oral and written communication skills in English - Strong motivation to conduct collaborative research - Further desired: background in biology, anthropology, and/or statistics; knowledge of bioinformatics software

(e.g., PLINK, FRAPPE, GATK); experience analyzing large-scale genome data; familiarity with Mac OS X

Interested applicants can learn more about the position from <http://careers.brown.edu>, job number M02555

Please direct any inquiries to Dr. Sohini Ramachandran: sramachandran at brown dot edu.

Sohini Ramachandran Assistant Professor Ecology and Evolutionary Biology Center for Computational Molecular Biology

sohinir@gmail.com

plus, especially experience developing database-driven web applications. Proficiency in R or other statistical packages. and experience with SQL desirable. Experience with cloud computing also desirable.

To apply, send a CV or resume, cover letter and contact information for 3 references to Dr. Adam Boyko: boyko at cornell dot edu. Review of applications will begin August 31. Informal inquiries are welcome, and start date is negotiable.

arboyko@gmail.com

CornellU BioinformaticsProgrammer

Seeking a bioinformatics programmer for a new, cutting-edge canine genomics laboratory in the Department of Biomedical Sciences, College of Veterinary Medicine. The lab is focused on developing novel computational approaches for understanding canine evolution and the genetic basis of complex phenotypes from high-throughput genotyping and sequencing. The primary duties of the position will be to maintain scientific databases, design, implement and manage bioinformatic resources to handle high-throughput genomic data, install and debug software applications, and maintain storage/backup hardware. Necessary skills include experience with scientific and/or database programming, documentation (e.g., developing wikis) and software development.

The programmer will also be involved in building resources for research outreach. The position requires an individual capable of communicating with scientific researchers, handling and prioritizing duties across multiple projects, and working independently on critical tasks. Experience with basic web development a plus.

Required qualifications: Bachelor's degree in computer science or related field and at least 2- 3 years of programming experience, ideally in bioinformatics or related area. Proven ability to handle large databases and complete complex programming projects a must. Must have proficiency in UNIX, cluster computing, Perl and C/C++ or Python.

Preferred qualifications: Experience in computational biology and biological statistics, particularly in the analysis of next-generation sequencing and dense genotyping data. GUI and web design experience also a

Dartmouth EvolutionaryGenomics

Faculty Position in Comparative and Evolutionary Genomics

The Department of Biological Sciences at *Dartmouth *seeks applicants for a tenure track Assistant Professorship in the areas of comparative and evolutionary genomics, bioinformatics, molecular evolution, population genetics, or quantitative genetics. We seek candidates who are taking empirical, theoretical and/or statistical approaches to major questions in these areas in any biological system. The successful candidate will be expected to supervise an independent research program that will attract extramural funding, to provide research training for graduate and undergraduate students, and to teach at the undergraduate and graduate levels. Application materials should include a curriculum vitae, representative publications, statements of research and teaching interests, and at least three letters of reference. Please send materials either electronically (preferred) to "evolgenomics@mac.dartmouth.edu" or as hard copies to:

Evolutionary Genomics Search

Department of Biological Sciences

Dartmouth College

Hanover, NH 03755

Application review will begin on October 19, 2011 and continue until the position is filled. For further information about the department and graduate programs, see <http://www.dartmouth.edu/~biology/>. This position is one of six tenure-track faculty positions that will be filled at Dartmouth this year: two in developmental biology, two in genomics/bioinformatics, one in molecular therapeutics, and one in cancer biology.

Dartmouth College combines a commitment to innovative scholarship with dedication to excellent teaching. One of the most diverse institutions of higher education in New England, Dartmouth College is an equal opportunity/affirmative action employer, has a strong commitment to diversity, and in that spirit encourages applications from women and minorities“.

Mark McPeck <mark.mcpeek@dartmouth.edu>

DukeU LemurCenterManager

The Duke Lemur Center is seeking to fill the position of Research Project Coordinator, with an expected start date of October 1, 2011. The successful candidate will have a bachelor's degree in one of the biological sciences, with a Master's degree or Ph.D. preferred. Strong organizational and communication skills are a must. To learn more about the position and/or to apply, please visit the Duke HR web site <http://www.hr.duke.edu/-jobs/apply/external.php> where you will need to register as an external applicant (unless already employed by Duke University). After registering, enter 400510683 in the Requisition Number or use "Lemur Center" as the Keyword.

The Duke Lemur Center is a unique organization dedicated to the study and conservation of endangered prosimian primates, especially the lemurs of Madagascar. To learn more about the Center, please visit our web site: <http://lemur.duke.edu/> For additional information, please contact the Director, Anne Yoder <anne.yoder@duke.edu>

Anne Yoder <anne.yoder@duke.edu>

IMBG Crete 2 Bioinformatics

Two positions in Bioinformatics/Computational Biology

The Institute of Marine Biology and Genetics (IMBG) of the Hellenic Centre for Marine Research (HCMR), invites applications for two (2) experienced researchers in the field of Bioinformatics - Computational Biology. These positions are funded by the EU-FP7 "MARBIGEN" project "Supporting research potential

for MARine Biodiversity and GENomics in the Eastern Mediterranean" (www.marbigen.org). This project aims at supporting IMBG excellence in the fields of biodiversity and genomics, by integration of phenotypic, community ecology and genomic approaches within an evolutionary context. It includes upgrading existing and acquiring new equipment for automated 3D phenotyping, genomic data production and bioinformatics, taking advantage of the knowledge and experience existing in excellent research entities of the EU through exchanges of researchers, the organization of workshops and seminars, and hiring incoming experienced scientific personnel.

IMBG is located in Crete, Greece (www.hcmr.gr/-listview2.php?id2), 15 km east of the city of Heraklion by the seashore. Its focus is on studying biodiversity at all levels of biological organization, from genes to ecosystems. It leads the Greek national network for biodiversity research (related to ESFRI infrastructure "LIFEWATCH"), is a member of the national network for genomic research, and participates in the pan-European ESFRI infrastructure "EMBRC" (European Marine Biological Resource Centre).

Specifically, experienced researchers are to be recruited for the following positions:

1. Bioinformatician / Computational Biologist with interest / experience in applying genomic approaches in organismic and population biology. Ability in analysis of next generation sequencing data, gene annotation and genome assembly will be considered.
2. Bioinformatician with experience in genomics and metagenomics of microbial organisms. Experience in analysis of data, produced by next generation sequencing will be considered.

Candidates must have a PhD in a related field and at least three years of postdoctoral experience, a demonstrated record of significant research and the potential to make substantial contributions as independent investigators. The fellows are expected to be involved in running projects of the Institute but also to develop new research projects and to interact with the multidisciplinary research environment of the host Institute.

Applications should consist of a) a cover letter detailing previous experience, research interests and motivation for applying, b) an academic CV and c) contact information for three referees (including e-mail address), which should be submitted electronically to magoulas@her.hcmr.gr until September 10, 2011.

The expected starting date for the positions is in October 2011. Gross salaries will be 4500 euro per month and duration of contracts will be initially for one year,

extendable for one further year.

For more info please contact Dr. Giorgos Kotoulas <kotoulas@her.hcmr.gr>

We are committed to increasing the proportion of female researchers at IMBG/ HCMR and strongly encourage applications from female candidates.

Dr. Antonios Magoulas

Director, Institute of Marine Biology and Genetics Hellenic Centre for Marine Research (HCMR) P.O. Box 2214, 710 03 Heraklion, Greece Tel. +30 2810 337801 Fax +30 2810 337870

LBBE Lyon PopulationGenetics

Statistics and probability in population Genetics-Genomics

The Laboratoire Biometrie et Biologie Evolutive (LBBE) in Lyon, France, is seeking candidates for an upcoming hire at the Assistant Professor level (Charge de Recherche) in the area of Statistics and Probability for population Genetics and Genomics. The expected application deadline is early January 2012. Interested candidates can contact Franck Picard (franck.picard@univ-lyon1.fr) for more information, or visit the LBBE webpage (lbbe.univ-lyon1.fr) for more information about the department.

Since the beginning geneticists and mathematicians have worked together to develop methodologies in Statistics and stochastic modeling that could help to understand the observed genetic diversity. Areas of successes and challenges concern the inference of population parameters for instance (growth, decline and effective sizes of populations, migratory fluxes, mating types, etc.), the mapping of quantitative trait loci, the reconstruction of evolutionary scenarii, and also the analysis of genomic data. Such interplays are at the core of the identification of loci under selection pressure, first step towards the identification of polymorphisms responsible for particular adaptations of organisms to their environment.

Such approaches have recently gained enormous power thanks to the emergence of Next Sequencing Technologies that give a unique access to the genetic diversity at the scale of complete genomes, even for non-model organisms. Combining ecological and such genomic data is the new challenge to draw a real comprehen-

sive picture of spatio-temporal processes that govern the genetic organization and evolution of populations. The flood of data arising from the Next Generation Sequencing technologies offers new exciting perspectives to study the functioning of biological communities, within space and time, but also raises important methodological challenges. These challenges concern the analysis of the raw data as well as the inference of the evolutionary processes.

In Lyon, different research groups work on Ecology, Evolutionary Genomics and Mathematics. Several groups have started to tackle these challenges, with both mathematical and biological perspectives, by working out statistical models and by collecting genetic and genomic data (with or without spatial information) on different organisms (vertebrates, invertebrates, microorganisms, vectors). Lyon constitutes an ideal environment to develop an ambitious research project in Mathematics applied to population Genomics. This profile is broad since methodological needs are important to model more and more complex biological processes and also to analyze and integrate heterogeneous biological data in high dimension.

Key words :

* modeling in population genetics * Genomic data analysis * Statistical genetics * landscape genetics

ane@stat.wisc.edu

LMU Munchen MolecularSystematics LowerPlants

The*Faculty of Biology* of the Ludwig-Maximilians-Universität München (LMU) invites applications for a Professorship (W2) for Molecular Systematics of Lower Plants or Fungi (6 years/tenure track)

commencing as soon as possible.

The successful candidate is expected to establish a strong, competitively funded research program in molecular systematics of mosses, ferns or fungi. Preference will be given to applicants whose research programs include evolutionary questions and will facilitate cooperation within the faculty and with other research institutions. A strong commitment to teaching in the Evolution, Ecology, and Systematics program as well as the bachelor and master programs in biology is expected.

Prerequisites for this position are a university degree, a doctoral degree, teaching skills at university level and a post-doctoral degree (Habilitation) or equivalent qualification that may have been gained outside the university or may consist in a junior professorship.

The initial appointment will be for six years. After a minimum of three years it may be converted to tenure pending a positive evaluation of the candidate's aptitude for teaching and research as well as the candidate's pedagogical and personal aptitude if all legal conditions are met. In exceptional cases involving candidates with outstanding qualifications, a tenured position may be offered from the outset.

Candidates for this position should be aged 52 or under at the time of appointment. Exceptions thereto may be considered in the case of outstanding candidates.

The LMU is an equal opportunity employer and aims to increase the number of female faculty members. Therefore, applications from female candidates are explicitly encouraged.

Disabled candidates with essentially equal qualifications will be given preference.

The LMU supports dual career couples.

Further information concerning the LMU's equal opportunity policy can be obtained from Prof. U. Vothknecht (vothknecht@lmu.de), concerning teaching from Prof. H. Jung (hjung@lmu.de), concerning the structure of the Faculty from Prof. Dr. Grothe (dekanat19@lmu.de), and concerning the scientific scope of the position from Prof. S. Renner (renner@lrz.uni-muenchen.de).

Please submit your application comprising a curriculum vitae, list of publications, a brief summary of present and future research interests, proof of teaching experience, five selected reprints and copies of relevant documents as electronic file (together with the completed submission form on the website <http://www.biologie.uni-muenchen.de/fakultaet/-organisation/dekanat/index.html> before 30th September 2011 to the email-address dekanat19@lmu.de and in printed form to the Dean of the Faculty of Biology, Prof. Dr. Benedikt Grothe, Ludwig-Maximilians-Universität München, Grohaderner Strae 2, 82152 Planegg-Martinsried, Germany.

Susanne Renner <renner@lrz.uni-muenchen.de>

MaxPlanckInst ResAssist LuikotaleBonobo

Research Assistant LuiKotale Bonobo Project

Hiring Organisation: Max Planck Institute for Evolutionary Anthropology

Position Description: I am looking for a field assistant to assist with data collection for my Ph.D. project on female mate choice and mating strategies in bonobos (*Pan paniscus*) at LuiKotale - a long-term field site near Salonga National Park in the Democratic Republic of Congo. This study is part of an ongoing project and all collected data will be handed over at the end of the appointment; therefore, this position is not suitable for candidates looking to pursue individual projects. The research assistant will be trained on site, and will learn to identify individual bonobos in a habituated community of bonobos. The assistant will work alongside an existing team of personnel, recording detailed behavioural observations and collecting faecal and urine samples. Fieldwork includes long-distance walking through very difficult terrain, and the assistant should be prepared to work long days, sometimes from dawn to dusk, in all weather conditions. Information about the field site and research activities at LuiKotale is available at <http://www.eva.mpg.de/-primat/files/bonobo.htm>. This position will provide the successful applicant with an excellent opportunity to gain extended fieldwork experience with detailed behavioural research.

Qualifications/Experience: Essential requirements are: (1) field experience, preferably in a tropical climate; (2) above average physical fitness and tolerance of demanding physical conditions; (3) above average resistance to social/psychological stress; and (4) the ability to live in a very remote and basic camp, and work with an international team of students, volunteers and local staff.Â

Candidates should have: (1) practical and technical skills required for orientation and navigation in the forest (e.g., experience with GPS units and compass reading); (2) strong social skills and patience; (3) high degree of self-motivation and responsibility; (4) respect for and willingness to adapt to local customs; (5) up-to-date awareness of the current situation in DRC, including potential health and safety risks associated with working in DRC. Candidates with field research experience in Africa, animal behavioural research experience,

and knowledge of French will be preferred.

Salary/funding: 300 Euros/month

Support provided for field assistant (travel, meals, lodging): - Food (a variety of local foods with limited western food items) - Lodging (in tents under thatched roofs) at the field site - Airfare and airport tax for one domestic return flight from Kinshasa to the field site - Contribution of up to 800 Euros for an international return flight (reimbursement ONLY AFTER successful completion of a 9-MONTH term of appointment) - Expenses for visa (reimbursement ONLY AFTER successful completion of a 9-MONTH term of appointment) * Please note that expenses during the stay in Kinshasa on the way in/out of D.R. Congo cannot be covered by the project.

Term of Appointment: 9 months starting in March 2012

Application Deadline: October 1, 2011

Comments: To apply, please send: (1) a letter of interest/motivation; (2) your CV or resume detailing relevant experience; and (3) names and e-mail addresses of two people who would be willing to provide references to heidi.douglas@eva.mpg.de by the October 1st deadline.

Contact Information: Pamela Heidi Douglas Department of Primatology Max Planck Institute for Evolutionary Anthropology Deutscher Platz 6 04103 Leipzig Germany

Telephone Number: ++49 (0) 341 3550 264

E-mail Address: heidi.douglas@eva.mpg.de

highland_chimp@yahoo.ca

Mexico Biodiversity

Tenure-track Faculty Position at Langebio-CINVESTAV (<http://www.langebio.cinvestav.mx>)

The National Laboratory of Genomics for Biodiversity of Mexico (Langebio) is a Unit of the "Centro de Investigación y de Estudios Avanzados" (CINVESTAV), a Federal Government Institution devoted to basic and applied research. Langebio's mandate is to conduct top-ranked research and graduate education, while promoting genomic knowledge for the protection and sustainable use of Mexican biodiversity (<http://www.langebio.cinvestav.mx>).

Research at Langebio is conducted by an international

team of scientists, with an emphasis on collaboration and multidisciplinary studies. We are recruiting group leaders at all career stages, working in experimental and theoretical biology. Scientists at Langebio have access to state of the art computational and wet lab facilities, and are expected to build or bring a world-class research group. Applications from women are encouraged.

Applicants should send a CV, PDFs of their 3 most important publications, and a three page description of their scientific accomplishments and proposed research program. Junior applicants should arrange for three reference letters to be sent separately.

Review of applications will begin November 15th, 2011. Send applications to the attention of Dr. Luis Herrera-Estrella, Langebio-CINVESTAV, Irapuato, Guanajuato, MEXICO, E-mail: mbernal@langebio.cinvestav.mx

acibrian@langebio.cinvestav.mx

Middlebury College OneSemester TeachingEvol

MIDDLEBURY COLLEGE ASSOCIATE IN SCIENCE INSTRUCTION

The Department of Biology invites applications for a one-semester leave replacement, for spring semester 2012, as an Associate in Science Instruction (ASI). The primary responsibility is an introductory core course in ecology and evolution (BIOL 0140). The ASI will be responsible for all aspects of the laboratory portion of the course, including designing labs, ordering and preparing materials, instruction, grading, and oversight of undergraduate teaching assistants. The ASI will teach four laboratory sections per week during the spring semester. Applicants should have a Ph.D. in ecology, evolutionary biology, or a related field, and a demonstrated commitment to excellence in teaching. Candidates who are ABD but have excellent teaching experience are encouraged to apply. Applications for this position will be accepted starting on September 1, 2011. Review of applications will begin on September 30, 2011. Submit letter of application, curriculum vitae, graduate transcript, three current letters of recommendation, and a statement describing laboratory teaching and practical experience to Andi Lloyd, Biology Department Chair, Department of Biology, Middlebury, Vermont 05753. More information

on the Biology Department and its curriculum can be found at < <http://www.middlebury.edu/academics/bio> > <http://www.middlebury.edu/academics/bio>. Please direct any questions about this position to Andi Lloyd (lloyd@middlebury.edu; 802-443-3165).

Middlebury College is an Equal Opportunity Employer committed to recruiting a diverse faculty to complement the increasing diversity of our student body.

hjyoung@middlebury.edu

New Zealand Two Year Bioinformatics

Bioinformatics Position: Two year Contract

Landcare Research (a Crown Research Institute) is New Zealand's foremost environmental research organisation. Our research and technology developments are focused on New Zealand's most important environmental issues: biosecurity, pest management, biodiversity, reducing greenhouse gas emissions, impacts of rural land use, urban environmental management, and sustainable business.

A bioinformatics position to help with the day to day management and processing of DNA sequence data is available at our Auckland site. This position is based in our Informatics team, but will primarily serve the molecular research community at Landcare Research, with interest in genomics, population genetics, biosystematics and metagenomics.

The successful candidate will be involved in establishing data processing pipelines and data management systems for a range of projects generating by Sanger sequencing, genotyping, and next generation sequencing (454) data. Specific forms of data processing and management required include genome/transcriptome assembly and annotation, T-RFLP, RNA-Seq analysis, SNP detection and analysis, analysis of genome scale data sets, and the management and storage of Next Generation DNA data.

A suitable candidate should have a post-graduate degree in computer science and/or a quantitative field, such as statistics, computational biology, with strong interest in genetics/genomics and research. Candidates with post-graduate degrees in genetics with a good grounding in biology and/or ecology or related fields with strong computer science and statistical expertise are also encouraged to apply. A successful candidate

will have:

- * Strong knowledge of high-throughput DNA sequence data;
- * Knowledge or experience in the use of existing bioinformatics tools and biological databases;
- * Strong expertise with scripting languages such as Perl/Python;
- highly desirable: experience using R;
- helpful: knowledge of other scientific programming languages such as JAVA, C/C++;
- * Database programming and administration skills with platforms such as MS SQL, MySQL, and/or PostgresSQL;
- * Familiarity with UNIX/Linux operating systems is essential;
- knowledge or experience with Windows operating system and cluster and high-performance computing is desirable.

The successful candidate will have excellent communication and time management skills and have the ability to work both independently and collaboratively in a dynamic research environment within multi-disciplinary teams on various projects. Salary is commensurate with education and qualifications. Initially this will be a two year contract.

Applications close on Monday 5th September 2011.

For further information and to apply please go to the Landcare Research website www.landcareresearch.co.nz/jobs Dianne Gleeson Director EcoGene™ Post: c/o Landcare Research Private Bag 92170, Auckland 1142, New Zealand Delivery: 231 Morrin Road, St John's, Auckland 1072, New Zealand Phone: +64 9 5744121 Fax: +64 9 574 4101 Web: www.ecogene.co.nz GleesonD@landcareresearch.co.nz

Ohio State U Evolutionary Genomics

Assistant Professor of Evolutionary or Ecological Genomics The Ohio State University

The Department of Evolution, Ecology, and Organismal Biology (EEOB) invites applications for a TENURE-TRACK POSITION at the Assistant Professor Rank in Evolutionary or Ecological Genomics. We seek outstanding individuals who address fundamental questions in evolution and/or ecology either through the generation of large-scale sequence or gene expression data or by using either computational/statistical approaches for the analysis of genomic data. Researchers studying non-model systems are strongly encouraged to apply. This position builds on our established strengths in population genetics, systemat-

ics, and model-based studies of evolution, and will expand the scale and scope of research on evolutionary processes in EEOB. The successful applicant will have a Ph.D., preferably with postdoctoral experience, and will be expected to develop a strong, externally funded research program, train graduate students, and contribute to undergraduate and graduate teaching. Find additional information about OSU at www.osu.edu or about EEOB at eeob.osu.edu. For questions about the position, contact Dr. Lisle Gibbs (gibbs.128@osu.edu, (614) 688-3861), Chair of the search committee. The position will begin 1 October 2012.

Applicants should submit a cover letter, current CV, and statements of research and teaching interests, preferably as a single pdf file, and have three letters of reference sent to Ms. Corey Ross at ross.629@osu.edu. Review of applications will begin on 12 October 2011 and continue until a suitable candidate is identified. Women, minorities, veterans, and individuals with disabilities are encouraged to apply. EEO/AA employer.

H. Lisle Gibbs, Ph.D. Professor, Department of Evolution, Ecology, and Organismal Biology, Director, Ohio Biodiversity Conservation Partnership Ohio State University 318 W. 12th Ave. Columbus, Ohio 43210-1293 USA Tel: 614 688 3861

gibbs.128@osu.edu

PrincetonU
EvolutionaryBiolPrincetonU
EvolutionaryBiol

ASSISTANT PROFESSORSHIP ECOLOGY, EVOLUTION AND/OR BEHAVIOR

Princeton University's Department of Ecology and Evolutionary Biology plans to hire individuals at the level of tenure-track Assistant Professor. We have broad interests in ecology, evolution, behavior, functional biology, conservation biology, disease and biogeochemistry; a common appreciation of theory, natural history and evolutionary thinking unites the Department. We seek applicants who pursue research that aims for significant conceptual and/or empirical integration across traditional disciplinary boundaries and who have a strong commitment to teaching. It is possible that an appointment may be joint with the Princeton Environmental Institute, especially if the applicant's research focuses on problems of global or environmental change.

Applicants should write a vision statement, no longer than two pages, that outlines the conceptual dimensions of one or more major unsolved problems in their field and how their approach will contribute to solving them. The vision statement should be more than a summary of the applicant's prior and current research.

Applications, including the vision statement, curriculum vitae, three reprints and contact information for three references should be addressed to Simon Levin, Search Committee Chair, and submitted online via <http://jobs.princeton.edu>. Screening of applications will begin 12 September 2011.

Princeton University is an equal opportunity employer and complies with applicable EEO and affirmative action regulations.

(Direct link to the online posting of Job Req #0110466: <https://jobs.princeton.edu/applicants/jsp/shared/-position/JobDetails.css.jsp?postingId=182122>)

Diane Carlino Department Manager Ecology and Evolutionary Biology Princeton University 104A Guyot Hall 609-258-5810 dcarlino@princeton.edu

Diane Carlino <dcarlino@Princeton.EDU>

SangerInst
BacterialBioinformatician

Senior Bioinformatician in Pathogen Genomics

Wellcome Trust Sanger Institute

Salary range: £28,280 - £35,441

The Wellcome Trust Sanger Institute is a world leader in genomic research, with an expanding scientific programme dedicated to understanding gene function in health & disease.

We have an exciting new role available for a talented bioinformatician/ programmer engaged in an important genomic study of a major human pathogen in the context of high disease burden across Africa. The successful candidate will be part of a dynamic team at the Sanger Institute and will interact with collaborators in several African countries. Responsibilities will include software development for intuitive analysis and visualisation of genome sequences and associated metadata.

The post is funded through a Bill & Melinda Gates Foundation consortium project focused on genomics of serotype 1 *Streptococcus pneumoniae*, a major cause

of morbidity and mortality throughout sub-Saharan Africa which exhibits a strong association with invasive disease and may occur in outbreaks or epidemics. The scientific aim of the project is to create a better understanding of the evolution of this distinct, region-specific clone in order to inform the development of clinical interventions, particularly vaccines. The project also targets capacity building for bioinformatic expertise across the consortium.

Essential Skills The successful candidate will have the following knowledge, experience and skills: PhD in bioinformatics or computer science (or equivalent industry experience) Several years experience in bioinformatics Evidence of proficiency in computer program design and implementation in a modern programming language (e.g. Perl, Java, Python etc.) Proven experience of designing and developing web based applications for support of scientific projects Experience of dealing with large data sets and running software on a compute farm Knowledge and experience of UNIX / LINUX on an advanced level Strong interpersonal and communication skills Excellent problem-solving skills Experience of training and supervising other team members

Ideal Skills Expertise in design, creation and validation of intuitive software for visualisation and analysis of biological datasets. Experience with processing next-generation sequencing data would be an asset but is not essential.

Other information This position is initially for a fixed term of 2 years. For further information please contact Sophie Palmer (sophie@sanger.ac.uk)

Benefits The Institute has excellent purpose built facilities on the Genome Campus, Hinxton on the outskirts of Cambridge. We offer a comprehensive range of benefits including a final salary pension scheme and excellent on-site facilities. Further details can be found on our website <https://jobs.sanger.ac.uk>. To submit your CV and apply for this job please go to <https://jobs.sanger.ac.uk>, to register and apply on line. Click here for Employer Profile

Stephen Bentley Principal Scientist Pathogen Genomics Wellcome Trust Sanger Institute

Associate Editor Microbiology Journal

Honorary Lecturer University of Liverpool

sdb@sanger.ac.uk

Taipei FishBehaviourEvolution

Post-doctoral Position in Fish Contest Behavior (Taipei, Taiwan)

A post-doctoral research associate is available to study the contest behavior of *Kryptolebias marmoratus*, a mangrove killifish, in the lab of Dr. Yuying Hsu (<http://140.122.143.143/yuyinghs/yuyinghsu/index.html>) at the National Taiwan Normal University in Taipei, Taiwan. The position is funded for 3 years. The post-doctoral research associate will participate in projects investigating whether and how different types of cost related information might be integrated to influence the fish's contest decision. Candidates should have a strong research background in behavioral ecology, preferably in animal contest behavior. Because I would also like to explore the physiological mechanisms of the fish's contest behavior, a background in fish physiology would be a plus. The official language in Taiwan is Mandarin Chinese. Research papers, however, are all written in English and English is widely spoken here. Good English is therefore essential and an English speaker should be able to get by. Candidate screening will begin immediately, and continue until the position is filled. The successful candidate will be able to start as soon as practical after the position is filled. Send a cover letter, CV, names of three references and a one-page statement of research interests/experience, incl. how previous experience relates to the position to Yuying Hsu (yuyinghs@ntnu.edu.tw).

Yuying Hsu Professor Department of Life Science National Taiwan Normal University No. 88, Section 4, Tingchou Rd Taipei 116, Taiwan

Tel: Office: 886-2-7734-6292 Lab: 886-2-7734-6462

Fax: 886-2-2931-2904

Email: yuyinghs@ntnu.edu.tw

<http://140.122.143.143/yuyinghs/yuyinghsu/index.html>

TunghaiU Taiwan EvolutionaryBiol

Faculty Position at Department of Life Science, Tunghai University

1. Position Summary: ASSISTANT PROFESSOR-SHIP or higher
2. Position available from 01/Feb/2012
3. Qualification: (Required): Ph.D. and postdoctoral experience in ecology or evolutionary biology.
4. Applicants should submit:
 - a. a cover letter including statements of research interest and teaching philosophy
 - b. curriculum vita, graduate and undergraduate transcripts and a photocopy of highest diploma
 - c. copies (or PDFs) of the publications within the last five years
 - d. a list of research projects involved in the past five years
 - e. teaching plans (including course names and course description) and research plans
 - f. three letters of reference
5. Application deadline: 01/Nov/2011
6. Please send hard copies of all materials to: Office of Human Resources, Tunghai University, Taichung, 40704, Taiwan (please label for faculty position in Department of Life Science on the envelope) or electronic copies to: sw2842@thu.edu.tw, with "Biology Faculty Application" in the subject line.
7. For more information, please contact Mrs. Su-Wen Shiao at +886-4-23590121 ext. 32402 or E-mail: [e-mail: sw2842@thu.edu.tw](mailto:sw2842@thu.edu.tw). Related website: <http://biology.thu.edu.tw/main.php> Chung-Ping Lin Department of Life Science Tunghai University <http://sysnevo.thu.edu.tw> treehops <treehops@thu.edu.tw>

Research Technician

The University of Alabama seeks a creative and responsible researcher to work in a *Drosophila* evolutionary genomics lab. The successful candidate will assist the Principal Investigator (PI) in a 5-year NIH funded project to map the genetic basis of dietary variation in endophenotypes (e.g. gene expression, metabolites) relating to diabetes and obesity in *Drosophila melanogaster*. Responsibilities will include: ordering supplies, chemical and sample inventory, *Drosophila* husbandry and breeding, standard nucleic acid methods (such as RNA extraction and PCR), phenotypic assay development, mentoring undergraduate researchers, and genomic data analysis. The associate will also aid the PI and student researchers in all aspects of the project as deemed appropriate by the PI. The position may require occasional time on nights or weekends depending on the demands of the experimental protocols. Additional information about the research lab can be found at: <http://bama.ua.edu/~lreed1/>. Minimum Qualifications: Bachelor of Science degree or higher in a discipline related to the position. One (1) year of relevant experience. Basic computing skills. Strong interpersonal skills. Willingness to learn. Some experience working with molecular genetic techniques is required. Must be willing to make at least a two-year commitment to the position. MSc preferred. Two (2) or more years of biological research experience preferred. Some experience with insect husbandry and statistical data analysis preferred.

Be prepared to submit a cover letter, resume, and reference contact information when applying online at: jobs.ua.edu. Direct inquires to Dr. Laura Reed, lreed1@as.ua.edu

Visit UA's employment website at jobs.ua.edu for more information and to apply. Requisition number 006154. Closing date 9/6/2011. EOE/AA The University of Alabama is an equal-opportunity educational institution/employer.

Laura K. Reed Assistant Professor Dept. of Biological Sciences University of Alabama, Tuscaloosa Office: 2330 SEC, Lab: 2322 SEC Mailing address: Box 870344, Tuscaloosa AL 35487

office: 205-348-1345 lab: 205-348-1368

lreed1@bama.ua.edu <http://bama.ua.edu/~lreed1/> "Reed, Laura" <lreed1@ua.edu>

UBergen SystematicBotany

Position as associate professor in systematic botany open at University of Bergen - the Natural History Museum:

<http://www.jobbnorge.no/job.aspx?jobid=76902> Associate Professor in Systematic Botany

A permanent position as associate professor in systematic botany ? vascular plants, is open at the Natural History Collections (DNS), Bergen Museum, University of Bergen.

As part of a strategic investment in research in biosystematics at DNS emphasizing the importance of scientific collections, a position is offered to an associate professor with research within vascular plant taxonomy. The applicant must be skilled in classic (morphology based) as well as in molecular methods. The successful applicant?s research must be in vascular plant systematics and taxonomy and she or he will have the scientific responsibility for the vascular plant collections. Additional duties are dissemination and teaching/supervision.

We are seeking a colleague who holds a Norwegian doctorate degree or a comparable level in vascular plant systematics, and has achieved the associate professor level of academic proficiency in this discipline. Basic teaching training is a requirement. The successful candidate will be offered appropriate training if this requirement has not been met before the employment.

A more detailed description of the position and information about necessary documentation which must enclose the application is obtainable below or from the Bergen Museum Administration, phone no. +47 55 58 93 60, e-mail: POST@bm.uib.no?, and/or the head of the Natural History Collections, associate professor Kari Hjelle, kari.hjelle@bm.uib.no, and/or curator of the herbarium, professor Tor Tønsberg, tor.tonsberg@bm.uib.no, phone no. +47 55 58 33 33.

Starting salaries at salary level 57 (code 1011) on the government salary scale (corresponding to NOK 448.400 per year, following ordinary meriting regulations (wage levels 57-64). The successful applicant must comply with the guidelines that apply to the position at any time.

Applicants must state the works or parts of works they

wish to be given particular attention in the evaluation of their applications. These should not exceed 10 in number. The application must contain an overview of the attachments providing the pedagogic qualifications. The application must contain a complete overview (including a list of all attachments) of the applicant?s education, earlier positions and teaching qualifications. Copies of certificates and diplomas, testimonials and scholarly works with a list of these (in four copies, sorted in four identical bundles), are to be sent to the University of Bergen, Bergen Museum, Administration, PO Box 7800, N-5020 Bergen, Norway.

In addition the application and CV should be sent via the link ?Apply for this job? at this website.

Closing date for applications: 15 September 2011
The application must be marked with the annotation: 11/6498

Bjarte.Jordal@zmb.uib.no

UBristol Phylogenomics

Lecturer/Senior Lecturer/Reader in Phylogenomics
School of Biological Sciences University of Bristol, UK.

The Schools of Earth and Biological Sciences wish to recruit an exceptional individual with internationally recognised expertise in the broad field of phylogenomics: the nexus of phylogenetics and bioinformatics, focused on exploiting large-scale gene ? or entire genome ? datasets in the study of evolutionary relationships, genome evolution, and the evolution of gene function.

We have recently invested in high throughput gene sequencing technology, and research groups in both Schools are seeking to exploit this resource to better understand gene, genome and organismal evolution across the breadth of the Tree of Life and extent of Earth History. You should have an interest in either laboratory-based sequencing or tree-based bioinformatics approaches that consider large-scale questions in evolution. We are also interested in applications from exceptional candidates who have world-class research programmes in macroevolution.

You will have an international reputation for research and a track record in research income and publication to support this. It is expected that you will be or become a research leader, bringing or building your own research group and developing new research avenues with col-

leagues in both schools and the university at large.

The position forms part of a wider investment in the fields of evolution and phylogenomics, and benefits from location in the new Life Sciences Building, a £50M development to be completed in 2013. Further information

Contract: Permanent

Salary: £33,734 - £52,556

Grade: Level b - Level d in Pathway 1

Closing date for applications: 9:00am 20 Sep 2011

Anticipated start date: 01 Jan 2012

For further details see: <http://www.bris.ac.uk/boris/-jobs/feeds/ads?ID=99631> Contact for informal inquiries:

Professor IC Cuthill (i.cuthill@bristol.ac.uk | 0117 928 7475) Professor M Kendall (gljmk@bristol.ac.uk | 0117 954 5400)

Dr Martin Genner School of Biological Sciences University of Bristol Bristol BS8 1UG United Kingdom

Email: m.genner@bristol.ac.uk Web-page: <http://www.bristol.ac.uk/-biology/person/index.html?personKey=-NvIIRBu5MzRsVo2XHKQ00Au1QQ560Q> Martin Genner <M.Genner@bristol.ac.uk>

UMalaya Bioinformatics

SENIOR LECTURER POSITION

We would like to invite fresh PhD graduates who are passionate about bioinformatics education (in addition to research) to join us at the Bioinformatics Unit. Applicants should have strong background in at least one of the following areas: mathematics, statistics, computing, molecular biology. The university also requires the applicant to have published at least three papers in ISI-cited journals. The successful applicant is expected to assist the unit in running its Master of Bioinformatics programme, and may also be asked to contribute to undergraduate training.

Some information about University of Malaya (UM) and Malaysia:

UM is the oldest and most established public university in Malaysia. Competitive salary and cash incentives for publication in ISI journals. English is taught

as a second language, and widely spoken in the country. Multicultural society. Kuala Lumpur is a major transit hub to neighbouring countries in South-East Asia. No chilly winters

Applicants should submit a curriculum vitae to Dr T.F.Khang (tfkhang@um.edu.my) before 1 September, 2011. We apologise that only short-listed candidates will be notified. Date: 12 July 2011

Gianluca Polgar Ph.D. Senior lecturer Institute of Biological Sciences Institute of Ocean and Earth Sciences Faculty of Science, University of Malaya 50603 Kuala Lumpur, Malaysia Tel.: 017-6223549 Fax (ISB): 03-79674178 e-mail: gianluca.polgar@gmail.com www.themudskipper.org Gianluca Polgar <gianluca.polgar@gmail.com>

UMichigan EvolutionaryBiol

EVOLUTIONARY BIOLOGY and EVOLUTIONARY ECOLOGY

University of Michigan

The Department of Ecology and Evolutionary Biology at the University of Michigan invites applications for a TENURE-TRACK POSITION (open rank) in evolution. We seek outstanding individuals with research and teaching interests in any area of evolutionary biology or evolutionary ecology. Particular foci of interest include evolutionary or ecological genetics and genomics, evolutionary theory, phylogenetics, and evolution of morphology, function, and behavior. Also strongly encouraged are research programs that take advantage of the outstanding collections of the Museum of Zoology, Herbarium, and Museum of Paleontology. For further information, see website:<http://eeb.lsa.umich.edu> . To apply, please see website:<http://www.lsa.umich.edu/eeb/applications/>, and arrange to have three letters of recommendation submitted through the same website. Review of applications will begin on 10 September 2011. Women and minorities are encouraged to apply and the University is supportive of the needs of dual career couples. The University of Michigan is an Equal Opportunity/Affirmative Action Employer.

Patricia J. Wittkopp, Ph.D. Associate Professor Ecology and Evolutionary Biology Molecular, Cellular and Developmental Biology 1061 Natural Science Building University of Michigan Ann Arbor, MI 48109-

1048 tel: 734.763.1548 (office); 734.647.5483 (lab)
 fax: 734.763.0544 www.umich.edu/~pwlab wit-
 tkopp@umich.edu

UMunster IntegrativeEvolution

Westfälische Wilhelms-Universität Münster

* *

The University of Münster invites applications from outstanding candidates for the position of a Junior Research Group Leader within its "Münster Graduate School of Evolution" (MGSE) Initiative.

The MGSE Initiative brings together researchers from the biosciences, the geosciences, medicine, bioinformatics, mathematics, philosophy, education research, as well as theology, in order to develop a unifying framework for interdisciplinary research and education in evolution.

Leiter einer Nachwuchsgruppe / Junior Research Group Leader

(TV-L E14/15)

for

Integrative Evolution Research

within the "Münster Graduate School of Evolution" Initiative

The Group Leader appointment will be for a period of *five years*. The position will provide start-up resources, two PhD positions and a technician. The institutional affiliation depends on the departments that the project interfaces. The position is to be filled as soon as possible, and is eligible for tenure.

We expect the group leader to establish joint projects with researchers from at least two departments in the MGSE research areas, with the aim of developing new ways to bridge the different fields. Projects may focus on:

Early Evolution of Life, Levels of Biodiversity, Philosophy of Biology/Philosophy of Evolution, Evolutionary Theory, Growth of Evolutionary Thought.

However, new project ideas are also welcome.

The Junior Research Group shall play an important role in the development of the MGSE, and the group leader is expected to participate actively in the implementation of the Graduate School, especially in the interdis-

ciplinary teaching programme (Studium Integrale).

Applicants must have a doctorate in a discipline related to the proposed project. Postdoctoral experience and a strong publication record are expected. The application should demonstrate a wide intellectual scope and broad experience in interdisciplinary work. Interested candidates should submit their Curriculum Vitae, including a publication list, a synopsis of their current and proposed research, teaching experiences, references, and a statement about their strategies concerning interdisciplinary work, to arrive by *3rd October 2011*. This should be sent as a single PDF file to joachim.kurtz@uni-muenster.de <<mailto:joachim.kurtz@uni-muenster.de>>.

The University of Münster is an Affirmative Action, Equal Opportunity employer committed to excellence through diversity.

For more information refer to the MGSE website (<http://ieb.uni-muenster.de/mgsei/>) or contact

Prof Joachim Kurtz

Institute for Evolution and Biodiversity, WWU Münster, Hüfferstraße 1, D-48149, Germany

joachim.kurtz@uni-muenster.de

Andreas Wessel <awess.02@uni-muenster.de>

UNeuchatel EvolutionParasites

The University of Neuchâtel, Switzerland, invites applications for a position of Full professor in Biology of Parasites

Job description: The successful candidate is expected to establish an internationally recognized research programme in parasitology. We are particularly interested in researchers using original and innovative approaches to work on host-parasite interactions in animal systems. The appointee will teach at all levels of the biology curriculum (bachelor, master and doctoral school) and should be ready to teach in other curricula. A non-French speaking appointee would be asked to achieve fluency in French following a period of adaptation to teach undergraduate courses in French.

Starting date: 1st August 2012 or upon agreement.

Requirement: PhD degree in biology or in another life science discipline, as well as an internationally recognized research record.

Applications should be sent by regular mail to the Dean of the Faculty of Science, Prof. Peter Kropf, Rue Emile Argand 11, 2000 Neuchâtel, Switzerland, as well as by email to (doyen.sciences@unine.ch). Deadline: 15 November 2011.

Applications should include a letter of motivation and a résumé (CV) containing lists of obtained research funding, publications and teaching experience. The application should also include copies of academic degrees, a brief teaching statement (max. 1 page) and a research statement that details the candidate's research interests and the projects he/she plans to develop at the University of Neuchâtel (max. 2 pages). The candidate will ask 3 experts to send a reference letter by email directly to the head of the Hiring Committee, Prof. F. Kessler (felix.kessler@unine.ch).

The University of Neuchâtel encourages women to apply.

Additional information can be requested from the head of the Hiring Committee, Prof. F. Kessler (felix.kessler@unine.ch) or to the Dean (doyen.sciences@unine.ch). Further details can be found at www.unine.ch/sciences . mjvoordouw@gmail.com

UNewMexico TwoEvoLEcologyFaculty

Preamble:

The following job announcement is for two ecology faculty positions, but "ecology" is intended to be broadly defined, therefore encompassing many potential candidates in the evolutionary biology and systematics community.

UNIVERSITY OF NEW MEXICO Department of Biology FACULTY POSITIONS IN ECOLOGY

UNM Biology is seeking applications for two faculty positions in ecology. We anticipate one Open Rank position will be appointed at the level of Associate or Full Professor (tenure position or probationary appointment leading to tenure), and the second Open Rank position will either be at the Assistant (probationary leading to tenure-track) or Associate (leading to tenured decision) level. We are particularly interested in applicants with research and teaching interests that complement those of the current faculty in a broadly based and highly collaborative Department (<http://biology.unm.edu/>).

Programs within Biology include the Program in Interdisciplinary Biological and Biomedical Sciences (PIBBS), the Sevilleta LTER, the Sustainability Studies Program, the Museum of Southwestern Biology, and the Center for Evolutionary and Theoretical Immunology (CETI).

Open Rank (Associate to Full) Minimum: Applicants must have a Ph.D. in Biology or a related discipline. Applicants must have a minimum of seven years experience beyond the terminal degree appropriate for the faculty rank of Associate to Full Professor, demonstrated teaching competence, and an established reputation within and outside the University in a specialized field of scholarly work. Preferred: We seek a colleague with demonstrated publication record in peer-reviewed journals; commitment to establishing a vigorous and independent funded research program; research area that complements existing research in the department; evidence of a commitment to excellence in teaching at the undergraduate through graduate levels; enthusiasm for being a collegial member of vigorous biology department with diverse research interests. Posting #0811671

Open Rank (Assistant to Associate) Minimum: Applicants must have a Ph.D. in Biology or a related discipline. Applicants must have at least two years of relevant postdoctoral experience by September 15, 2012. Preferred: We seek a colleague with demonstrated excellence in research, demonstrated publication record in peer-reviewed journals; commitment to establishing a vigorous and independent funded research program; research area that complements existing research in the Department; promise of a commitment to excellence in teaching at the undergraduate through graduate levels; and enthusiasm for being a collegial member of a vigorous biology department with diverse research interests. Posting #0811670

All application materials must be received by September 15, 2011, for best consideration. The position will remain open until filled. For complete details or to apply, please visit: <https://unmjobs.unm.edu/> and reference posting numbers listed above.

Questions on the Open Rank (Associate/Full Professor) posting may be directed to Dr. Scott L. Collins, scollins@sevilleta.unm.edu, and on the Open Rank (Assistant to Associate Professor) posting to Dr. Donald O. Natvig dnatvig@gmail.com.

The University of New Mexico is an Equal Opportunity/Affirmative Action Employer and Educator. Women and underrepresented minorities are encouraged to apply.

Christopher C. Witt Dept. of Biology and Museum

of Southwestern Biology University of New Mexico 505-277-8169 Lab webpage: <http://biology.unm.edu/-witt> Sign up to receive MSB Birds Annual Newsletter: <http://www.msb.unm.edu/birds/signup.html> Christopher Witt <cwitt@unm.edu>

USouthCarolina ConservationBiol

Assistant Professor in Conservation Biology

The University of South Carolina at Columbia invites applications for a tenure-track position at the rank of Assistant Professor in the area of Conservation Biology. The position is a 9-month academic year appointment, and will be a joint appointment between the Environment and Sustainability (ES) Program and the Department of Biological Sciences. A Ph.D. is required at the time of appointment. Post-Doctoral experience is desirable. We seek a candidate who uses empirical and theoretical approaches to study issues related to protected area design, biodiversity, and/or ecological responses to global climate change. To address the damaging impacts of habitat loss and environmental change on species conservation, we seek a colleague with a strong research record in ecological processes over large spatial scales, including the impacts of such processes as habitat fragmentation, changes in anthropogenic land use, and/or climate change at all levels of biodiversity. Candidates with experience in policy/management are particularly encouraged to apply. Candidates must have a strong record of publication and extramural funding.

The University of South Carolina has been designated as one of only 73 public and 35 private academic institutions with ³very high research activity² by the Carnegie Foundation for the Advancement of Teaching. The Carnegie Foundation also lists USC as having strong community engagement. The University has over 28,000 students on the main campus (and over 43,000 students system-wide), 350 degree programs, and a nationally-ranked library system. Columbia, the capital of South Carolina, has a population of over 650,000 in the greater metropolitan area. The Environment and Sustainability Program at USC is a multidisciplinary unit administered by the College of Arts and Sciences comprising more than 140 affiliated faculty from units throughout the USC System. The Department of Biological Sciences includes over 40 Faculty and is ranked among the top 30 Biology Departments in the US.

Applicants should include with their application their vita, a statement of research and teaching interests and goals, and the names, addresses, emails, and phone numbers of at least three references. A pdf file containing this information should be sent electronically to: ConsBio2011@environ.sc.edu. Address applications to: Prof. Joseph M. Quattro, Chair, Conservation Biology Search Committee, University of South Carolina, Environment and Sustainability Program, EWS Room 603, University of South Carolina, Columbia, SC 29208. For more information about the position, contact Dr. Quattro directly via e-mail (josephq@mailbox.sc.edu), phone (803-777-3240) or visit <http://www.environ.sc.edu> and <http://www.biol.sc.edu>. To receive full consideration applications should be received by Oct 15, 2011.

The University of South Carolina is an affirmative action, equal opportunity employer. Women and minorities are encouraged to apply. The University of South Carolina does not discriminate in educational or employment opportunities or decisions for qualified persons on the basis of race, color, religion, sex, national origin, age, disability, sexual orientation or veteran status.

JosephQ@mailbox.sc.edu

UToronto Scarborough ConservationBiol

Associate or Full Professor in Ecology and Conservation Biology

University of Toronto Scarborough

The Department of Biological Sciences, University of Toronto Scarborough (<http://www.utsc.utoronto.ca/~biosci> < <http://www.utsc.utoronto.ca/~biosci/> > /) invites applications for a tenure stream position at the rank of Associate or Full Professor in the area of Ecology and Conservation Biology, to begin July 1, 2012. The successful applicant must have a strong publication record, evidence of a sustained and externally funded research program, and a proven commitment to graduate student supervision and training. Candidates with an active field program are especially encouraged to apply. The incumbent will be expected to take a leadership role in a planned Professional Master's graduate program in Conservation and Biodiversity. The successful candidate will demonstrate excellence in research and have a strong commitment to excellence in teaching at both the undergraduate and graduate level.

The University of Toronto is an international leader in biological research and education and the Department of Biological Sciences enjoys strong ties to other units within the University. The successful candidate will be expected to participate actively in the Graduate Department of Ecology and Evolutionary Biology at the University of Toronto (<http://www.eeb.utoronto.ca/>), and to undertake an active research program centered at the University of Toronto Scarborough. Additional information about the University of Toronto's Koffler Scientific Reserve (an internationally recognized site for research and education in biodiversity, ecology and conservation biology) can be found at <http://ksr.utoronto.ca/>. Also, neighbouring lands in the Rouge Valley of eastern Toronto are now designated to become an urban national park (<http://bit.ly/mZU2e6>), providing exciting opportunities regarding conservation. Salary will be commensurate with qualifications and experience.

Applications must include a CV, statements of research and teaching interests and three representative publications. Applications must be submitted online at <http://www.jobs.utoronto.ca/faculty.htm> (Job Number 1100763). We encourage applicants to combine PDF or MS WORD documents into one or two files. Applicants should also arrange that letters of reference from at least three referees familiar with the candidate's research and teaching be sent directly to:

Professor Greg Vanlerberghe, Chair Department of Biological Sciences University of Toronto Scarborough 1265 Military Trail Toronto, ON M1C 1A4 Canada

or e-mailed to biologygeneral@utsc.utoronto.ca (preferred).

Applications lacking the reference letters will not be considered. All materials must be received by November 15, 2011.

Further information on the research and teaching activities of the department can be found at <http://www.utoronto.ca/~biosci/>.

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

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

Jessica Barnett <jbarnett@utsc.utoronto.ca>

UVermont Systematics

Assistant Professor in Systematics, Department of Biology, University of Vermont

The Department of Biology of the University of Vermont seeks applications for a tenure-track Assistant Professor position in Systematics and Evolutionary Biology of arthropods, especially insects. The position will be open in the fall of 2012. The successful candidate will have expertise in classical and molecular systematics, including analysis of complex data sets. Candidates pursuing phylogenomics and innovative methods in bioinformatics in combination with taxonomy are especially encouraged to apply. Department information at: www.uvm.edu/~biology. All applicants are expected to: 1) hold a Ph.D. degree in relevant disciplines and have two or more years of postdoctoral experience; 2) develop a competitively funded research program; 3) teach undergraduate courses (chosen from among general biology, evolution, systematic entomology, and others in the candidate's expertise); 4) teach, mentor and advise undergraduate and graduate students; and 5) oversee a natural history collection of historic significance. Candidates must apply online at www.uvmjobs.com. Search for the position using department name (Biology) only. Attach a cover letter with a statement of research focus and teaching interests (one document), a curriculum vitae, representative publications, and the contact information of three references. Review of applications will begin on September 15, 2011, and will continue until the position is filled. Questions and up to three additional publications may be directed to: jschall@uvm.edu.

The University of Vermont recently identified several "Spire of Excellence" in which it will strategically focus institutional investments and growth over the next several years. One spire associated with the position is Complex Systems. Candidates whose research interests align with this spire are especially encouraged to apply (see: <http://www.uvm.edu/~tri/>).

The University seeks faculty who can contribute to the diversity and excellence of the academic community

through their research, teaching, and/or service. Applicants are requested to include in their cover letter information about how they will further this goal. The University of Vermont is an Affirmative Action/Equal Opportunity employer. The Department is committed to increasing faculty diversity and welcomes applications from women, underrepresented ethnic, racial and cultural groups, and from people with disabilities.

Dr. Jos. J. Schall Professor of Biology Department of Biology Marsh Life Science 203 University of Vermont Burlington, Vermont 05405 Office phone: (802) 656-0448 Laboratory phone: (802) 656-0702 jschall@uvm.edu

Lab website: <http://www.uvm.edu/~jschall/malaria.html> The economy explained in 2 minutes!

<http://front.moveon.org/-scribbling%2Dsharpie%2Dillustrates%2Dthe%2Dtruth%2Dabout%2Dour%2Deconomy/?id=28084-3073815-NB5j2Fx> Videos:

Life cycle of a lizard malaria parasite <http://www.youtube.com/watch?v=wXbGnfEoDBc> Barred owl eating a rodent <http://www.youtube.com/watch?v=7XaLhMgwUZg> Rose Breasted Grosbeak eating seeds <http://www.youtube.com/watch?v=OsJgIeBlksg> Woodpecker eating an orange <http://www.youtube.com/watch?v=5QTJHUEKOoU&feature> Joseph Julian Schall <jschall@uvm.edu>

UWesternOntario MolecularEvolution

Assistant Professor in Molecular Evolution

Applications are invited for a probationary (tenure track) faculty position at the rank of Assistant Professor in the area of Molecular Evolution in the Department of Biology, Faculty of Science, at The University of Western Ontario (www.uwo.ca/biology) starting July 1, 2012. Candidates must have a Ph.D. in Biology or a related field and postdoctoral experience (or equivalent). The successful candidate will be expected to develop an independent, externally funded research program in the area of Molecular Evolution, motivated by questions in Biology, and contribute to the graduate and undergraduate degree programs in Biology. The area of Molecular Evolution represents an integral link between the Departments research strengths in molecular and evolutionary biology, genetics and developmen-

tal biology, and the successful candidate will complement these. Preference will be given to applicants with a strong background in Bioinformatics, although all qualified applicants within the field of molecular evolution will be considered. The Department of Biology and Faculty of Science provide a research-intensive environment, including state-of-the-art computational (www.sharcnet.ca), laboratory and field facilities. Consideration of applications will begin November 01, 2011 and continue until the position is filled. Applications must include a curriculum vita, a statement of research interests, a statement on teaching philosophy, and the names of three references.

Applications, submitted electronically as a single pdf file to molevobi@uwo.ca should be addressed to the attention of:

Dr. Mark Bernards, Chair Department of Biology The University of Western Ontario

This position is subject to budgetary approval. Applicants should have fluent written and oral communication skills in English. All qualified candidates are encouraged to apply; however, Canadians and permanent residents will be given priority. The University of Western Ontario is committed to employment equity and welcomes applications from all qualified women and men including visible minorities, aboriginal people and persons with disabilities.

Amanda Moehring <ajmoehring@gmail.com>

UWisconsinMadison DigitizingCollections

Employer: University of Wisconsin-Madison

Working Title: Work Flow Coordinator

Official title: ASSOC RESEARCH SPEC (T16FN)

Degree and area of specialization:

B.S. Degree in Botany or Biology required; M.S. Degree in Botany or Biology preferred; familiarity with handling computerized information

Minimum number of years and type of relevant work experience:

Experienced with digital photography

Principal duties:

Position Description: This position will coordinate a

team of undergraduate student hourlies responsible for digitizing a diverse array of specimen labels from bryophyte and lichen specimens at roughly 100,000 per year. The position will be responsible for developing an efficient workflow for selecting specimens, photographing labels, and returning specimens to their herbarium cases. As necessary, coordinate with several other institutions that will be sending their specimens to the University of Wisconsin for photographing of their respective labels. Further responsibilities will include managing the images and metadata on a local computer, uploading them to a server, and applying regular quality control checks.

Goal A:50% Photograph ca. 100,000 (or more) labels of North American bryophyte and lichen specimens per year.

Duties:

1. Supervise and participate in work-flow of label photographing, developing protocols to maximize efficiency.

2. Document successful workflows

Goal B:30% Manage images and metadata on local computer and server, assure completeness and quality

Duties:

1. Organize images and metadata on local computer in appropriate folders, initiate regular uploads to server.

2. Implement regular checks of data and metadata against actual specimens to assure completeness of digitization process.

3. Collaborate with the information manager and lead programmer in applying quality control routines.

Goal C:20% Organize specimen selection from the herbarium and their return after photographing the labels

Duties:

1. Select on a daily basis specimens for photographing
2. After photographing return specimens to their storage location in the herbarium.

3. Collaborate with herbarium personnel to store received specimens and to help return them when owned by a different institution.

A period of evaluation will be required

To see official job announcement, please go to: http://www.ohr.wisc.edu/pvl/pv_071243.html Note: This job is for a four-year project.

University of Wisconsin-Madison

PVL# 71238

A criminal background check will be conducted prior to hiring.

Employee class: Academic Staff

Department(s): L&S/RSCH-NATURAL SCI

Term:This is a renewable appointment.

Appointment percent: 90% - 100%

Anticipated begin date: September 4, 2011

Number of positions: 1

To ensure consideration, application must be received by: August 30, 2011

HOW TO APPLY:

This is a four-year project.

Unless another application procedure has been specified above, please send resume and cover letter referring to Position Vacancy Listing # 71238 to the following contact:

Department Contact:

Valerie Seidel

680 N Park St

Madison, WI 53706

Phone:608-262-3304

Email:vseidel@wisc.edu

NOTE: Unless confidentiality is requested in writing, information regarding the names of applicants must be released upon request. Finalists cannot be guaranteed confidentiality.

UW-Madison is an equal opportunity/affirmative action employer. We promote excellence through diversity and encourage all qualified individuals to apply.

vseidel@wisc.edu

UWisconsinMadison InformationSpecialist

Employer: University of Wisconsin-Madison

Working Title: OCR and NLP Specialist

Official title: ASSOC INF PROC CONSLT (S44FN)

Degree and area of specialization:

Bachelor's degree in information management or computer science with demonstrated experience in natural science applications; or in natural science with demonstrated experience in database management and a scripting language

Minimum number of years and type of relevant work experience:

This is an entry level position. Preferred experience in MySQL, PHP, and some understanding of natural history collections management, advanced knowledge of SQL and stored procedures; basic understanding of web application development (html, css, Javascript, and AJAX).

Principal duties:

Position Description: This position will work with the information management team responsible for managing a diverse array of imaged labels from bryophyte and lichen specimens, which will exceed 2 million by the end of the grant period. The position will be responsible for running OCR (optical character recognition) and NLP (Natural Language Processing) programs to parse the information into database and assist the project's lead programmer in optimizing the OCR and NLP outputs and minimize subsequent editing by a nation-wide team of volunteers. Other responsibilities include developing online documentation of procedures and protocols for volunteers to follow and responding to technical questions from volunteers regarding the transcription process. The person will develop and implement database quality control routines. As necessary the person will coordinate with the imaging teams at 16 different institutions nationwide and the project's lead programmer.

Goal A:40% Database Management

Duties:

1. Develop and regularly implement quality control routines for the database.
2. Bulk updates and edits
3. Upload previously digitized collections records (pre-dating this project)
4. Support local node managers in updating and maintaining their collections data

Goal B:40% Optimizing OCR and NLP processes

Duties:

1. Develop profiles and scripts to optimize Optical Character Recognition.
2. Populate lookup tables to optimize Natural Language processing.

Goal C:20% Documentation and tutorial development,

interaction with imaging teams and volunteers

Duties:

1. Write documentation and tutorials for online transcription process to be used by volunteers and staff.
2. Answer technical questions from volunteers and staff regarding image management and transcriptions.
3. Present training material and procedures at workshops

To see official job announcement, please go to: http://www.ohr.wisc.edu/pvl/pv_071243.html A period of evaluation will be required

University of Wisconsin-Madison

PVL# 71243

A criminal background check will be conducted prior to hiring.

Additional Information:

This is a four-year project.

Appointment percent: 90 – 100%

To ensure consideration, application must be received by: August 31, 2011

Anticipated start date: September 5, 2011

Number of positions: 1

HOW TO APPLY:

Unless another application procedure has been specified above, please send resume and cover letter referring to Position Vacancy Listing # 71243 to the following contact:

Department Contact:Valerie Seidel

Address:680 N Park St Madison, WI 53706

Email:vseidel@wisc.edu

Phone:608-262-3304

For more information, please see the official job advertisement here.

NOTE: Unless confidentiality is requested in writing, information regarding the names of applicants must be released upon request. Finalists cannot be guaranteed confidentiality.

UW-Madison is an equal opportunity/affirmative action employer. We promote excellence through diversity and encourage all qualified individuals to apply.

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vseidel@wisc.edu

WageningenU LabAssist PlantMolEvol

Research technician (vacancy number TE-011614)

The Netherlands Institute of Ecology (NIOO) is a top research institute of de Royal Netherlands Academy of Arts and Sciences dedicated to performing excellent and fundamental ecological research. Since January 2011 NIOO is housed in a new building at the Wageningen University campus and has state-of-the-art labs and research facilities.

Job description: We are looking for an enthusiastic research technician to carry out molecular lab research in plants. As a technician you are an active and important player in a team of researchers and students that collaborate within a research project on epigenetic variation in dandelion plants in context of evolution and ecology. In addition to molecular lab work you will contribute also to other tasks and experiments within this team, including greenhouse and growth chamber experiments. Lab work includes DNA and RNA extractions, qPCR, DNA sequencing and genetic marker analysis (AFLPs, microsatellites).

Job requirements: You are a well-trained biological research technician with a relevant education at HBO or academic level. You have several years of work experience in relevant molecular techniques and experimental plant research. You are independent and flexible, you take initiatives and you work accurately and precisely. You feel a strong affinity with scientific research and you are motivated to take on many different tasks as they present themselves. It is important that you can speak English. You need to have good organizational skills and a professional work attitude.

We offer: This is a 4-year project, we start with a contract for 1 year. A part-time contract is possible (0.8 fte). Location of the position is in Wageningen. Depending on the candidate's education and work experience the maximum fulltime gross salary is 2.682,- per month (schaal 7 CAO-Dutch Universities), Collective Agreement for Dutch Universities, excluding 8% holiday pay and a year-end bonus. We offer an extensive package of fringe benefits.

Information: Please contact Dr. Koen Verhoeven, tel. 0317-473624, email: k.verhoeven@nioo.knaw.nl, for further information about this position. Information

about NIOO can be found at www.nioo.knaw.nl. To apply: You can send your application letter, including your CV and the contact information of two references, by email to vacature@nioo.knaw.nl. Please mention the vacancy number. Deadline for applications is 4 September.

“Preite, Veronica” <V.Preite@nioo.knaw.nl>

ZFMK Bonn DipteraCurator

The Zoologisches Forschungsmuseum Alexander Koenig (ZFMK), Bonn, Germany (<http://www.zfmk.de>) seeks to fill a research position (curator of Diptera) in the Department of Arthropods. The position is available from October 2011. Potential candidates will hold a PhD in zoology or related areas, have their research focus on taxonomy and systematics of Diptera, and present a substantial publication record in taxonomy, phylogenetics and/or other aspects of biodiversity research. The candidate is expected to work in these fields from a sound theoretical basis and be able to apply an array of appropriate modern methods. He/she should be able to combine collection-based work with modern phylogenetic and/or ecological approaches. The candidate is also expected to integrate into ongoing research projects at the ZFMK and teaching programs at the University of Bonn, and to obtain competitive grant funds.

As a curator, the successful candidate will be responsible for caring, managing and further increasing and developing the Diptera collections at the ZFMK. He/she will also be involved in the self-administration of the institute and is expected to demonstrate commitment to community engagement in his/her field of research. Non-German candidates are expected to acquire basic knowledge of German.

The successful candidate will be employed for an initial probation period of up to five years - determined on his/ her experience - according to the German legislation, after which he/she will obtain tenure depending on his/her performance. Salary is according provisionally to grade TV-L/13 in the German Public Service scheme).

The ZFMK is a fellow institute of the “Wissenschaftsgemeinschaft Gottfried Wilhelm Leibniz” (WGL Science Community) and works in close cooperation with the University of Bonn. It comprises internationally impor-

tant scientific collections, libraries, electron microscopy unit, and bioacoustics, histological and molecular laboratories.

The ZFMK is an equal opportunity employer. Women are therefore strongly encouraged to apply. Equally qualified handicapped applicants will be given preference.

Interested applicants should submit a CV, complete publication record, a statement of teaching experience and research funding, certificates of university degrees,

and selected publications in hard copies to the following address:

Heike Lenz, Zoologisches Forschungsmuseum Alexander Koenig, Adenauerallee 160, D-53113 Bonn, Germany, by August 31 2011. E-mail inquiries: h.lenz.zfmk@uni-bonn.de.

Please note that application documents will not be returned.

Netta Dorchin <n.dorchin.zfmk@uni-bonn.de>

Other

2012 EncycloLife Fellows	42	Insect suppliers	47
ABI 3130xl	43	IntJournalEvolBiol Call Cichlid Papers	47
Applied Evolution videos	43	Micro library services	48
BacterialEvol TeachingLab	43	microsat NGS	48
Biomath support	44	MS VAR software	48
CambridgeU VolunteerFieldAssist Meerkats	44	NESCent K12EvolutionEducation Proposals reminder	48
Canadian Insect Suppliers	45	Problem with ABI3130xl fillingpump	49
Commercial DNA cloning	45	Sibship groups advice	49
Compilation r8s on Lion	45	Software DAMBE update	50
DNA extraction beads	45	Software PhyloSim	50
ElectroFastGel system form ABgene	45	Taxonomy mining question	51
Evolution competence tests	46	Volunteers SouthAfrican smallMammals	51
Evolution Documentary	46	WaterHyacinth GeneticMap	52
Evolution Videos 2	46		
IJEB EvolSex CallPapers	46		

2012 EncycloLife Fellows

The Encyclopedia of Life (EOL) is now accepting applications for its 2012 EOL Rubenstein Fellows competition.

This international program seeks to support and extend the impact of original biodiversity research by postgraduates, graduate students, and other scientists, and to tap into the knowledge and expertise of late career and

retired scientists. EOL Rubenstein Fellows funds provide partial support for up to one year so that biodiversity research, databases, and media can be effectively translated into rich, online resources available through the Encyclopedia of Life. Fellows are encouraged to engage in collaborative and synthetic work with a community of colleagues. EOL Rubenstein Fellows also help EOL develop effective strategies for engaging and supporting the scientific community.

Please note that in the 2012 program, research mentors are not required, and the program is not limited to early-career applicants. For more information on the program, and to apply online, please visit <http://->

www.eol.org/content/page/fellows .

Applications must be submitted via the online submission form no later than 16 September 2011, please see call details and the online form for details.

Questions regarding the EOL Rubenstein Fellows competition should be directed to the EOL Fellows Coordinator at eol.fellows@gmail.com.

Leo Shapiro <lshapiro@eol.org>

ABI 3130xl

Dear EvoDir

I am experiencing some problems with an ABI 3130xl sequencer. When running a spectral calibration I get an error code: failed spectral calibration, "no" candidate spectral files found. I looked at the possible causes and made changes but still I get the same error code. I am suspecting this has something to do that the spatial calibration does not get saved. When I go into run history: Spatial Calibration Viewer, none of my recent spatials are saved there (although they passed). Anyone had a similar experience?

Thankful for any help or suggestions!

Cheers

Jeanette

wodans12@yahoo.se

Applied Evolution videos

Twenty-four lectures from the conference "Interdisciplinary Solutions to Evolutionary Challenges in Food, Health, and the Environment" are online at the Institute for Contemporary Evolution web site (<http://www.icevolution.org>).

The meeting was a joint NSF and CSIRO-sponsored summit of leading international researchers interested in unifying the field of applied evolutionary biology.

Keynotes are by Tom Smith (UCLA), "Evolutionary Management of Ecosystems & Biodiversity", Ford Denison (U Minnesota), "Darwinian Agriculture: Past

Tradeoffs Present Opportunities", and Sir Peter Gluckman (U Auckland), "Applying Evolutionary Principles to Improving Human Health".

Other topics include invasion biology, evolution of resistance and virulence, adaptation to stress and climate change, and evolutionary management of natural resources and agroecosystems. The lectures are professionally edited and will interest research colleagues, students and educators.

The talks are organized by speaker. You can choose among the videos with this direct link: <http://icevolution.org/01.cms/details.asp?ID=61> . Also at the web site is 'Evolution Island', a 12-minute film about the meeting, which was held at Heron Island on the Great Barrier Reef, Australia, in 2010.

The film is at the top of the web page; if you have a small monitor, don't overlook the talks below it.

Scott P. Carroll, PhD Department of Entomology Center for Population Biology University of California-Davis <http://www.scottcarroll.org> <http://soapberrybug.org> <http://www.icEvolution.org> spcarroll@ucdavis.edu

BacterialEvol TeachingLab

Dear all:

I would like to institute a bacterial evolution component for the laboratory component of the Evolutionary Biology course that I teach. Ideally, this activity would be able to track changes in an appropriate gene or two and exhibit demonstrable change within the course of a 15-week semester. I have no experience maintaining bacterial cultures so what I'd like may not be possible - nevertheless, what I'm interested in would take one full lab session and parts of several others. That is, I envision an initial lab to set up cultures and obtain material for sequencing followed by 3 or 4 subsequent samplings spaced ~3 weeks apart throughout the semester for DNA extraction and sequencing to determine and track changes. Students would not have a lot of time for maintaining cultures so 'husbandry' would need to be minimal (I do not have lab personnel to maintain cultures for students). I should mention also that students in the course vary considerably in ability but do have sufficient bench skills to do simple DNA extractions. I'm hoping someone out in the community has already worked out an activity that might fit my constraints

with suitable species and gene(s) for such an activity. I would be most grateful for any input towards developing this type of lab.

Thanks in advance.

Paul Mack, Ph.D Assistant Professor of Biology Department of Sciences and Mathematics Mississippi University for Women 1100 College Street, MUW-100 Columbus, MS 39701 662-329-4987

pmack@as.muw.edu

Institute for Mathematical and Biological Synthesis (NIMBioS) University of Tennessee Knoxville, TN 37996

phone: (865) 974-8136 fax: (865) 974-3067 e-mail: gavrila@tiem.utk.edu web: www.tiem.utk.edu/~gavrila NIMBioS: www.nimbios.org Sergey Gavrillets <sergey@nimbios.org>

Biomath support

Support Available for Activities at the National Institute for Mathematical and Biological Synthesis

*September 1, 2011 *is the deadline for requests for NIMBioS support for Working Groups, Investigative Workshops, Sabbaticals, and Short-term Visitors for activities beginning spring 2012. All areas of research at the interface of biology and mathematics will be considered, but we are especially interested in activities expanding beyond the areas of research supported to date. Potential organizers of activities in areas of molecular biology, cell biology, network biology, immunology and systems biology are particularly encouraged to submit requests for support of Working Groups or Investigative Workshops. NIMBioS, located at the University of Tennessee-Knoxville, is an NSF-sponsored initiative to foster interdisciplinary research at the interface between mathematical and biological sciences. The institute's mission is to cultivate cross-disciplinary approaches in mathematical biology and to develop a cadre of researchers who address fundamental and applied biological problems in creative ways. Other NIMBioS sponsors include DHS and USDA, with additional support from the University of Tennessee-Knoxville. More details are posted at <http://www.nimbios.org> *Related Links:*

NIMBioS Working Groups <http://www.nimbios.org/workinggroups/> NIMBioS Investigative Workshops <http://www.nimbios.org/workshops/> Postdoctoral Fellowships <http://www.nimbios.org/postdocs/> Sabbaticals <http://www.nimbios.org/visitors/sabbatical> Short-term Visits <http://www.nimbios.org/visitors/>

Sergey Gavrillets Distinguished Professor Arts and Sciences Excellence Professor Department of Ecology and Evolutionary Biology Department of Mathematics Associate Director for Scientific Activities National

CambridgeU VolunteerFieldAssist Meerkats

Volunteer field assistant needed to assist 2nd year PhD student from Cambridge University with a study on the relation between hormones and cooperative behaviour in meerkats, between early October 2011 and March 2012.

Field work will take place at the Kuruman River Reserve, a remote study site in the southern Kalahari Desert in South Africa. Work days under desert conditions may be long and repetitive and will involve assisting with experiments and following habituated groups of wild meerkats to record their behaviour. Living at the field site will be under basic conditions together with a dynamic team of 15 - 25 early career researchers and field assistants. The study site is very isolated and possibilities to leave the study site are rare, but limited internet is available.

Food and accommodation will be provided. Unfortunately my funding does not cover travel expenses and visa costs (together some £1000,-).

Previous experience with field work in isolated conditions is an advantage, but motivation and an easy going personality will be most important. Applicants should hold a valid drivers license and be available for interview via Skype. Applicants should be able to start applying for visa asap.

If interested, please send a cover letter, CV and contact info of 2 references to ps511@cam.ac.uk.

Peter Santema

For further information visit: <http://www.zoo.cam.ac.uk/zoostaff/larg/pages/index.html> <http://www.kalahari-meerkats.com/> - Peter Santema PhD student Large Animal Research Group Department of Zoology University of Cambridge

<http://www.zoo.cam.ac.uk/zoostaff/larg/Pages/-index.html> "P. Santema" <ps511@cam.ac.uk>

Canadian Insect Suppliers

Currently I am looking for insect suppliers from anywhere within Canada.

Particularly, I will be needing the the eggs of: Cabbage Looper (*Trichoplusia ni*) Beet Armyworm (*Spodoptera exigua*) Tobacco Budworm (*Heliothis virescens*)

If anyone has any contacts for suppliers, I would greatly appreciate the help.

Thanks,

Christina Thomsen University of Toronto

c.thomsen@utoronto.ca

Commercial DNA cloning

Can someone please recommend a Biotech company which does both cloning and sequencing of PCR products? We would have large number of PCR products (size ~200 bp) that we would like to have sequenced. The PCR products however, are amplified cell populations where individual cells might have different alleles of STRs (microsatellites) and therefore cloning is essential prior to sequencing.

thank you,

Monika

Monika Zavodna Department of Anatomy and Structural Biology University of Otago PO Box 913 Dunedin 9054 New Zealand

Phone: +64 3 479 7376 Fax: +64 3 479 7254

monika.zavodna@anatomy.otago.ac.nz

Compilation r8s on Lion

Hi all,

Has anyone been able to compile r8s for the new Mac OS Lion? There are some changes to fortran libraries in the new OS, and I can't seem to get r8s to compile.

Thanks, Todd Oakley

todd.oakley@lifesci.ucsb.edu

DNA extraction beads

There is a grad student in my lab who is having the following issue. Any advice would be helpful.

I am extracting DNA from bacteria attached to plastic and chitin magnetic beads and using real time PCR to quantify the amount of bacteria present. After phenol:chloroform DNA extraction my DNA pellet is white and chalky, it almost looks like small flecks of paper, and does not go into solution. Could the beads be contributing to the consistency of my DNA and will this affect my PCR amplifications? We do not think that it is salts since it is not soluble and we are doing two wash steps.

Also, if anyone can recommend a better DNA extraction technique from magnetic beads for DNA quantification that would be great too.

Cheers,

Rachel Wallace Clostio, Ph.D. Postdoctoral Researcher Louisiana State University Department of Environmental Sciences Office: (225) 578-7173 Lab: (225) 578-5830

Rachel W Clostio <rclostio@lsu.edu>

ElectroFastGel system form ABgene

Dear evoldir users,

a colleague tried to find and buy a gel system that he knew from his previous lab, and which he really misses now. It is the ABgene Eelectro-Fast Gel System (see <http://www.abgene.com/-productDetails.asp?prodID=3D184>). Unfortunately this system seems to be discontinued.

I would be curious if anybody would have such a system but does not use it anymore, so that we could buy it 2nd hand.

Thanks in advance, Robert
 robert.kraus@senckenberg.de

Evolution competence tests

Hello,

Is there anyone out there who is administering a general evolution competence test appropriate for undergraduate students? I would be interested in quantitatively assessing the ability of our program to prepare our students.

Thanks,

Rodney

Rodney J. Dyer, PhD Department of Biology Virginia Commonwealth University dyerlab.bio.vcu.edu

Rodney Dyer <rjdyer@vcu.edu>

Evolution Documentary

We're launching a campaign in late August with the support of the National Center for Science Education and Americans United for Separation of Church & State to promote the importance of teaching evolution, not creationism, in our schools.

Emmy-winning filmmaker Greta Schiller has created a film called NO DINOSAURS IN HEAVEN, featuring anthropologist Dr. Eugenie Scott, which will screen at a number of universities in the South and nationwide as well as at the New York Academy of Sciences and the Center for Inquiry in Los Angeles. Along with speakers from each school and discussion among the community, this film series will help to provoke an important dialogue on the need for quality science education, the joy of genuine scientific discovery and freedom from religious influence in the classroom.

We are booking NO DINOSAURS IN HEAVEN for university and community engagements now. If this would be of interest to your community, please contact me now. If there is someone else in your department who is responsible for arranging events, please pass this information along to them.

You can find a trailer and more information at <http://nodinos.com>. If this would be of interest to your listmembers, please pass it along. If you have any questions about the film or campaign, please let me know.

Thanks, Laure

—

Laure Parsons laure@nodinos.com No Dinosaurs in Heaven A Documentary about Creationism in Science Education <http://nodinos.com> 917.725.0727

Laure Parsons <laure@nodinos.com>

Evolution Videos 2

EVOLUTION ACADEMY VIDEOS (Darwin, Matthew, Fleeming Jenkin, Butler)

NEW SERIES. Following the Introductory set of twelve 15 minute videos on Evolutionary Principles, and a second set on Natural Selection, I happily present a third set on Blending Inheritance. These deal with historical aspects of Evolution with special reference to the complex interactions between Charles Darwin, Patrick Matthew, Fleeming Jenkin and Samuel Butler.

HOW TO VIEW THE VIDEO LIST. Go to web-page (<http://post.queensu.ca/~forsdyke/videolectures.htm>).

The videos supplement my books on bioinformatics and biohistory, and my evolution web-pages.

Donald R. Forsdyke, Department of Biomedical and Molecular Sciences, Queen's University, Kingston, Ontario, Canada K7L3N6

forsdyke@queensu.ca

IJEB EvolSex CallPapers

The Evolution of Sex-Related Traits and Genes Call for Papers (International Journal of Evolutionary Biology)

Dear Colleagues: Following the successful publication of our first issue on the evolution of sex-related traits and genes <http://www.hindawi.com/journals/ijeb/2011/si.estg/>, we are pleased to announce the

launching of an annual special Issue on the topic. This will become the second in a series of special Issues or focus Issues to be published each year. We are now inviting authors to submit original research articles as well as review articles that will stimulate, contribute, and challenge our continuous effort to understand what drives the evolution of sex-related traits and genes.

For more information please visit <http://www.hindawi.com/journals/ijeb/si/estg12/> Sincerely,

Alberto Civetta Jose M. Eirin-Lopez Rob Kulathinal
Jeremy L. Marshall

a.civetta@uwinnipeg.ca a.civetta@uwinnipeg.ca

Insect suppliers

Dear Canadian Biologists:

We are writing this letter to inquire whether there is sufficient demand among Canadian biologists to justify starting new commercial colonies of three generalist feeding moths (*Spodoptera exigua*, *Heliothis virescens*, and *Helicoverpa zea*). Recent changes to the inspection of live insects by the United States Department of Agriculture and the U.S. Fish and Wildlife Service have made importing insect eggs, larvae and adults from the U.S.A. untenable for research purposes. In fact, many companies are unwilling to even attempt shipping across borders at this time. Although there are some excellent sources of commercial insect colonies in Canada, unfortunately there are no large-scale Canadian suppliers for the species listed above.

In collaboration with several labs and one Federal agency in Canada, we are investigating the feasibility of starting commercial insect colonies for the three species listed above within Canada. The colony would be reared with the highest standards of quality and cleanliness to reduce the incidence of parasites and with all proper certifications.

To gauge the potential demand and thus feasibility of starting these colonies, we ask that Canadian biologists that might make use of these colonies to respond to: c.thomsen@utoronto.ca. In this email please indicate:

a) Which species you would require b) The frequency at which you would order c) The number of insects you would typically order d) Your professional affiliation (e.g. Ag Canada, CFS, McGill University, etc.)

Best regards,

Marc Johnson Assistant Professor Dept. of Biology
University of Toronto - Mississauga

c.thomsen@utoronto.ca c.thomsen@utoronto.ca

IntJournalEvolBiol Call Cichlid Papers

Cichlid Evolution: Lessons in Diversification 2012

Call for Papers

Given the great success of the first special issue on “Cichlid Evolution: Lessons in Diversification” (available from <http://www.hindawi.com/journals/ijeb/2011/si.celd/>), which includes several high-quality research and review papers on cichlid evolution, a decision has been made to publish special issues on cichlid evolution on an annual basis. Cichlid fishes have long been a well-established evolutionary model system, and with the development of an increasing number of genetic and genomic resources, including the recent sequencing of four cichlid genomes, cichlids are likely to receive even greater attention in future evolutionary research. For the 2012 special issue, we invite investigators to contribute original research as well as review articles that seek to advance our knowledge of mechanisms underlying processes involved in generating and maintaining the tremendous diversity of cichlid fishes. Potential topics include, but are not limited to:

- >Advances in phylogenetics, phylogeography, and population genetics
- >Genomic and transcriptomic research
- >Role of behavioral and ecological specializations in cichlid diversification
- >Ecological interactions between cichlid species or between cichlids and other organisms
- >Physiological/morphological adaptations to particular environments
- >Importance of hybridization for generating diversity
- >Sexual versus natural selection
- >Evolution of developmental mechanisms
- >Conservation biology/genetics and the anthropogenic effects on cichlid diversity

Authors interested in preparing a review article should contact the Lead Guest Editor.

Before submission authors should carefully read over the journal’s Author Guidelines, which are located at <http://www.hindawi.com/journals/ijeb/guidelines/>. Prospective authors should submit an electronic copy of their complete manuscript through the journal Manuscript Tracking System at <http://mts.hindawi.com/> according to the following timetable:

Manuscript Due Friday, 6 January 2012 First Round of Reviews Friday, 6 April 2012 Publication Date Friday, 6 July 2012

Lead Guest Editor Stephan Koblmüller, Department of Zoology, Karl-Franzens-University Graz, Universitätsplatz 2, 8010 Graz, Austria

Guest Editors R. Craig Albertson, Department of Biology, University of Massachusetts, Amherst, MA 01002, USA Martin J. Genner, School of Biological Sciences, University of Bristol, Woodland Road, Bristol BS8 1UG, UK Kristina M. Sefc, Department of Zoology, Karl-Franzens-University Graz, Universitätsplatz 2, 8010 Graz, Austria Tetsumi Takahashi, Graduate School of Science, Kyoto University, Kitashirakawa-Oiwake Sakyo, Kyoto 606-8502, Japan

Stephan Koblmüller Department of Zoology; Karl-Franzens-University Graz Universitätsplatz 2; 8010 Graz Austria phone: +43 (0)316 3803978 fax: +43 (0)316 3809875 homepage: <http://www.kfunigraz.ac.at/-zoowww/staff/KoblmueLLer/kobl.htm>

“KoblmueLLer, Stephan (stephan.koblmueLLer@uni-graz.at)” <stephan.koblmueLLer@uni-graz.at>
<stephan.koblmueLLer@uni-graz.at>

Micro library services

Dear All,

I am looking for a company that constructs microsatellite libraries. If you have any recommendations, they would be very welcome.

Please email me at svdh@sun.ac.za

Many thanks, Sophie

svdh@sun.ac.za

microsat NGS

Dear all,

I was wondering if any of you have information on sequencing microsatellite repeats (amplicons) on a 454 platform.

Essentially, I would like to get some information on the accuracy when sequencing microsatellite amplicons. Do you get the two alleles (e.g. heterozygotes) in equal proportions or do you get a distribution of several repeat lengths due to pcr-errors? If so, what kind of coverage (50x, 100x) do you need to estimate the “correct” alleles? And is there any difference between di-, tri, tetra or penta-repeats as you would expect?

I would be grateful if any of you could point me to some papers on this topic or share your experience. Thanks!

Note: I do not ask for info on how to use 454 seq to develop new microsats as there are plenty of papers on that.

Koen

kdegelas@gmail.com

MS VAR software

Dear EvolDir users,

I am currently using the Software MS VAR 1.3 (Beaumont 2004) For now, I have difficulties to set the `init_v_file` to a good starting point. No output is generated and I get an error message :

“error:: getevent: problem setting newtime”

If anyone has already encountered this problem I would be very grateful for advice on how to solve this problem.

Best regards

Ludovic Dutoit Laboratory of Molecular Evolution and Mammalian Phylogenetics | BatLab University College Dublin

Dutoit Ludovic <dutoit.ludovic@gmail.com>

NESCent K12EvolutionEducation Proposals reminder

Request for proposals in K-12 evolution education for underrepresented minorities

Deadline: September 1, 2011 or January 1, 2012

As part of ongoing efforts to increase diversity in evolutionary science, the National Evolutionary Synthesis

Center is sponsoring a range of targeted activities in the general area of K-12 Evolution Education for Underrepresented Minorities. " We seek to support one or more Catalysis Meetings, Working Groups or other synergistic activities that lead to the creation of new programs, activities or initiatives designed to increase exposure and participation in evolutionary science by K-12 minority students who are historically underrepresented in the discipline.

In particular, proposals that are significantly interdisciplinary, and that demonstrate a mix of senior and emerging researchers, including graduate students, are encouraged. Competitive proposals will not only define the target audience(s) and outline strategies for developing innovative activities, but will also include detailed plans for implementation and assessment. Proposals should also indicate how activities and programs align with state and/or federal education standards.

NESCent invites researchers to submit proposals for two kinds of meetings:

Catalysis Meetings: These one-time meetings bring together ~30 scientists from diverse disciplines to focus on a major question or research area in evolutionary science. Catalysis Meetings typically last for 3-5 days.

Working Groups: Working Groups involve small groups of scientists (10-12 participants) collaborating intensively on the analysis or synthesis of data, models or both, to address a major question in evolutionary science. Working groups will typically meet 3-4 times over two years, with each meeting lasting 3-5 days.

Synergistic Activities: We also strongly encourage linkages among our science programs (see url below). We invite proposals that plan synergistic activities between two or more of the following: working groups, catalysis meetings, postdoctoral fellows, sabbatical scholars, short-term fellows, and graduate students. Proposals for each of these must be submitted separately; they should include a clear statement of linkage between proposals (including clear identifications in each of the separate proposals of which proposals are linked).

NESCent will not support collection of new data or field research, but encourages the synthesis of existing data and information resources. NESCent is committed to making data, databases, software and other products that are developed as part of NESCent activities available to the broader scientific community.

To learn more about the various types of proposals, and the proposal process, please visit <https://www.nescent.org/science/proposals.php>, or contact Dr. Allen Rodrigo (a.rodrido@nescent.org) or Dr. Jory Weintraub (jory@nescent.org).

Jory Weintraub <jory@nescent.org>

Problem with ABI3130xl fillingpump

Dear community,

I have a problem with an 16 capillary 3130xl ABI. This machine has not been used for 3 years. A new array is installed but problem is the pump. Well nothing seem to be wrong with the pump as the piston moves up and down as it should but no liquids are drawn into the upper polymer block. So when trying to do a water wash for example, the liquid is not even able to go more than 2-3 cm from the bottle and then it goes down again. I should mention that all the tubes and even the lower polymer block have been cleaned so there is no dry polymer blocking those areas. Could there be a block just under the pump, in the valve? Does anyone have any experience with this? Any help would be mostly appreciated.

Many thanks!

Jens Carlsson

wodans12@yahoo.se

Sibship groups advice

Dear Colleagues,

I am trying to determine sibship groups of frog egg masses that I collected from the wild to ultimately calculate heritability values. Since I know each egg mass is from one mother, I am trying to determine whether the tadpoles are full or half siblings within each egg mass. I genotyped all tadpoles for 4 microsatellite loci and have tried using various programs to reconstruct sibship groups. I am getting different results from different programs and was wondering if anyone has done something similar and can offer any advice about the best method and specific parameters to use. Particularly, if anyone has a similar system in which both parents (genotypes) are unknown but the number of mothers is known and you are trying to determine number of fathers. I have tried using Kingroup, Colony, and Parentage. Thanks

in advance for any advice.

Best, Katherine

kpease@ucla.edu

Katherine Pease, PhD Department of Ecology and Evolutionary Biology University of California, Los Angeles
621 Charles E. Young Dr. S. Los Angeles, CA 90095

kpease@ucla.edu

Software DAMBE update

Dear All,

I have just uploaded a new version of DAMBE. The previous version of DAMBE has a few problems running on Windows Vista/7 machines. The cause is partly due to Windows Vista/7 not allowing the user to create temporary files in most directories. DAMBE now writes temporary files to Windows' temporary directory.

DAMBE is a comprehensive software package for data analysis (especially sequence analysis) in molecular biology and evolution. It is free at <http://dambe.bio.uottawa.ca/dambe.asp> Best Xuhua

Xuhua Xia, Professor of Biology Biology Department University of Ottawa Rm 278 Gendron 30 Marie Curie, Ottawa, Ontario Canada K1N 6N5 Tel: (613) 562-5800 ext 6886 URL: <http://dambe.bio.uottawa.ca>

Software PhyloSim

Dear EvolDir readers,

I would like to announce PhyloSim (<http://bit.ly/o09JXW>), an extensible and feature-rich framework for the Monte Carlo simulation of sequence evolution that might be in the interest to readers of the list.

PhyloSim is implemented as an R package and it is available from CRAN (<http://bit.ly/n54VGg>) and the GitHub repository (<http://bit.ly/nFo9rf>) which also contains many example scripts implementing simulations of varying complexity. The list of the most important features offered by PhyloSim are summarized below.

Regards,

Botond Sipos EMBL-European Bioinformatics Institute

The key features offered by PhyloSim are the following:

1. Simulation of the evolution of a set of discrete characters with arbitrary states evolving by a continuous-time Markov process with an arbitrary rate matrix.
2. Explicit implementations of the most popular nucleotide, amino acid and codon substitution models.
3. Simulation under the popular models of among-sites rate variation, such as the gamma (+Gamma) and invariant sites plus gamma (+I+Gamma) models.
4. The possibility to simulate with arbitrarily complex patterns of among-sites rate variation by setting the site-specific rates according to any R expression.
5. Simulation with one or more separate insertion and deletion processes acting on the sequences, each sampling indel lengths from an arbitrary discrete distribution or an R expression (so all probability distributions implemented in R are readily available for this purpose).
6. All the rate variation features listed above (3, 4) can be readily applied to modify the rates whereby insertion and deletion processes initiate events at given sites.
7. Simulation of the effects of spatially variable functional constraints by site- and process-specific insertion and deletion tolerance parameters, which determine the rejection probability of a proposed insertion or deletion ("field deletion and insertion" models). Field indel models allow for the fine-grained control of selective constraints on indels.
8. The possibility of having different processes and site- and process-specific parameters for every site, which allows for an arbitrary number of partitions in the simulated data.
9. Simulation of heterotachy and other cases of time-non-homogeneous evolution by allowing the user to set "node hook" functions altering sites' properties at internal nodes of the phylogeny.
10. Full control over the properties of the inserted sequences, which makes it possible to easily extend PhyloSim with new kinds of insertion processes (e.g. duplications).

sbotond@gmail.com

Taxonomy mining question

Dear colleagues,

I have a long list of bacteria which has genus and species name, and want to know which family, order, class, phylum those bacteria belong to. Is there any idea for doing that?

Thanks!

Haiwei Luo University of Georgia

hluo2006@gmail.com

Volunteers SouthAfrican smallMammals

2 volunteers needed from November / December 2011 onwards

2 volunteers needed from January 2012 onwards

as field assistants for the project:

Evolution and Socio-Ecology of small Mammals in the Succulent Karoo of South Africa

Opportunity: This is a great opportunity for anybody who wants to get more experience in field work relating to evolution, ecology and behavior before starting an MsC or PhD project.

Project: We study the evolutionary and ecological reasons as well as physiological mechanisms of group living, paternal care, communal nesting and social flexibility in the striped mouse. As this species is diurnal and the habitat is open, direct behavioral observations in the field are possible.

What kind of people are needed? Biology/zoology/veterinary students are preferred as candidates. Applicants must have an interest in working in the field and with animals. Hard working conditions will await applicants, as the study species gets up with sunrise (between 5 and 6 o'clock), and stops its activity with dusk (19 o'clock). Work during nights might also be necessary. Work in the field will be done for 5 days a week. Applicants must be able

to manage extreme temperatures (below 0 at night in winter, sometimes over 40C during summer days). Applicants must both be prepared to live for long periods in the loneliness of the field and to be part of a small social group.

Work of field assistants: Trapping, marking and radio-tracking of striped mice; direct behavioral observations in the field. Volunteers are also expected to help with maintenance of the research station (water pump, solar power, etc.)

Confirmation letter: Students get a letter of confirmation about their work and can prepare a report of their own small project to get credit points from their university for their bachelor or masters studies.

Costs: Students have to arrange their transport to the field site themselves. Per month, an amount of Rand 1250 (around 180 US\$, 125 Euro) must be paid for accommodation at the research station. Students must buy their own food etc in Springbok (costs of about R 2500, approx. 360 US\$ or 250 Euro/month). Including extras (going out for dinner; shopping), you should expect costs of about 600 US\$, 450 Euros per month. Students get an invitation letter which they can use to apply for funding in their home country (eg. DAAD in Germany, SSJARP in Switzerland).

Place: The field site is in the Goegap Nature Reserve near Springbok in the North-West of South Africa. The vegetation consists of Succulent Karoo, which has been recognized as one of 25 hotspots of biodiversity. It is a desert to semi-desert with rain mainly in winter (June to September).

When and how long: At the moment we are looking for 2-3 volunteers starting in November / December 2011 and two additional volunteers starting in January 2012. Volunteers are expected to stay at least 4 months, but longer periods of up to 6months are possible.

How to apply? Send a short motivation letter stating why and for which period you are interested and your CV via email to carsten.schradin@ieu.uzh.ch.

More information under <http://www.ieu.uzh.ch/-research/behaviour/endocrinology.html> Contact via e-mail: carsten.schradin@ieu.uzh.ch

Dr. Carsten Schradin Research Assistant, Department of Animal Behavior, University of Zurich, Winterthurerstrasse 190, 8057 Zurich, Switzerland. Tel: +41 - (0)44 635 5486

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

Working as a field assistant in Goegap Nature Reserve

A report by Romy Höppli, student at the University of Zurich, who staid in Goegap June to August 2008

Blue skies without a single cloud for six weeks rocky mountains with little vegetation yellow, orange and pink fields of flowers in whatever direction you look small mammals, lizards and birds in our front yard and Mountain Zebras, Springbok and Ostrich right next door...

This was my time at the Succulent Karoo Research Station in Goegap Nature Reserve in South Africa! During six weeks from the beginning of July until the middle of August I've been living here, studying mice, experiencing nature like never before and being part of a small community where there was always something to laugh and joke about!

After arriving in Goegap, right the next morning my scientific adventure in South Africa began: Setting and checking traps, nest observations and radio-tracking were our daily routine. While I got bitten by the mice quite often in the beginning and my right middle finger was scarred all over, I improved quickly shaking the mice out of the traps, weighing them and checking the number of the ear tag. Other duties like cleaning the cages of the mice in the captive colony, washing the dirt from probably several

— / —

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>

WaterHyacinth GeneticMap

Hello. I currently an undergraduate at USC looking to do work on the water hyacinth for a fellowship. One thing that I am considering to do is microsatellite work on them. My questions are "Is there a genetic map already out for *E. crassipes* outlining specific loci to look at and if not, is anyone looking to sequence *E. crassipes*?"

Thanks for your time and consideration.

Cheers,

Mat < http://en.wikipedia.org/wiki/Eichhornia_crassipes >

"SEBASTIAN, MATHEW" <sebastim@email.sc.edu>

PostDocs

Bialowieza Poland Biodiversity	53	SantaFeInst EvolBiology	61
BielefeldU MathPopGenetics	53	StJohnsU PlantEvoDevo	62
DukeU EvolutionaryBiol	54	UAlgarve EvolutionFishOlfaction	62
DukeU FungalDiversity	55	UArizona EvolutionaryBiol	63
ETH Zurich ModellingAnimalSociety	55	UArizona PlantMolecularEvol	63
HarvardU ComparativeGenomics	56	UCalifornia Davis PlantEvolGenetics	64
Heidelberg PlantAdaptation	56	UChicago PopulationGenetics	64
ManchesterU PhylogeneticModelling	57	UCincinnati EvolBiol SexualSelection	65
McGillU Biodiversity	58	UExeter CamplyobacterEvolution	65
Paris Phylogenetics	58	ULeuven 2 EvolutionaryBiol	66
ReedCollege EvolutionaryGenetics	59	UNebraska PlantEvolutionaryGenomics	67
Roscoff France LifeCycleEvolution	59	UNeuchatel PlantInsectInteractions	67
RoslinInst Edinburgh StatisticalQuantGenetics	60	UOsnabruck ResAssoc MolEvol	68
SangerInst BacterialGenomics	60	UOxford AvianBehaviourEvol	68

UOxford EvolutionaryBiology	69	UWashington Flower EvoDevo	72
UPittsburgh PlantPathogenInteractions	69	UWisconsin Milwaukee FrogEvolution	72
UTexas Bioinformatics	70	UWisconsin Milwaukee KelpPopGen	73
UToronto GeneticsPlantAdaptation	71	UZurich PlantEvolution	73
UTurku Finland 2 MammalPopulations	71		

Bialowieza Poland Biodiversity

Research Fellowship at the Mammal Research Institute, Polish Academy of Sciences in Bia³owieża, Poland

VACANCY Mammal Research Institute is seeking a Post-Doc or Professor to join its research team between 2010-2012 under the 7th Framework Programme Support Actions project BIOCONSUS (Research Potential in Conservation and Sustainable Management of Biodiversity), in one of the following scientific profiles: * conservation genetics; * conservation ecology; * mathematical modelling and advanced statistics in ecology and biogeography; * GIS applications in ecology, genetics, biogeography, and biodiversity studies.

SCOPE Full time work (100%) for a minimum of 3 months and a maximum of 24 months.

START DATE According to agreement – position is open from 1 April, 2011.

REQUIREMENTS Candidates have to: (1) possess a PhD; (2) have 4 years of research experience since gaining a university diploma giving access to doctoral studies; (3) possess an excellent writing and speaking skills in English.

EVALUATION CRITERIA (1) scientific skills, especially the interdisciplinary approach; (2) number and quality of published scientific papers; (3) experience in work with high-quality research teams; (4) reference letters.

TASKS The recruited fellow will: (1) Join the ongoing research projects at MRI PAS in the respective field and widen its scopes and methods with the new knowledge. This will yield joint publications, and initiate further collaboration reaching beyond the time span of the BIOCONSUS project; (2) Deliver a series of lectures and seminars for the staff, students, invited researchers, and other guests of MRI PAS; (3) Participate in long-term training of students at MRI PAS by supervising and co-supervising their MSc theses and diploma papers.

CONDITIONS Salary (subject to social and health

insurance deductions, not subject to taxation) amounts to 3474 Euro/month for the Postdoc and 5211 Euro/month for Professor.

DOCUMENTATION TO BE SUBMITTED The application should be written in English and should include: CV, list of publications, copy of PhD diploma, copies of no more than five recent scientific publications, maximum one-page description of former research and other activities of relevance to the position, and names of at least two reference persons.

An electronic version of the application should be sent to: *Professor Bogumi³a Jêdrzejewska,* bjedrzej@zbs.bialowieza.pl Secretariat, mri-pas@zbs.bialowieza.pl

Additionally, applications should be sent via regular post to: *Professor Dr. habil. Bogumi³a Jêdrzejewska Mammal Research Institute Polish Academy of Sciences ul. Waszkiewicza 1 17-230 Bia³owieża, Poland with a note: "BIOCONSUS Application".*

Screening of applications will continue until a suitable candidate is appointed.

Mammal Research Institute PAS encourages female researchers to take part in the application process.

For more information concerning MRI PAS and the BIOCONSUS project please visit our website: www.zbs.bialowieza.pl Katarzyna Kubicka, MSc Administrative Coordinator of BIOCONSUS project Mammal Research Institute Polish Academy of Sciences 17-230 Bialowieza Waszkiewicza 1c, Poland www.zbs.bialowieza.pl tel. +48 (85) 682 77 81, fax +48 (85) 682 77 50 mobile: +48 508 527 698

K Kubicka <kkubicka@zbs.bialowieza.pl>

BielefeldU MathPopGenetics

The Biomathematics group at the Faculty of Technology, Bielefeld University, has a vacancy for a

Research Associate (postdoc, TVL-E13)

for a period of (initially) 12 months, starting in November 2011 or later; extension is intended.

We are looking for an individual with a PhD in Mathematics or Mathematical Biology with a research interest in stochastic processes in biology (preferably either in population genetics or immunobiology). Apart from research, the individual is obliged to teach (4 hours per week during term).

Informal inquiries and applications should be sent to the address below before Sept. 15, 2011. Applications via email are welcome.

Bielefeld University offers an excellent research environment, its particular strength being due to close interaction between biomathematics, mathematics, bioinformatics, and biology (all in one huge building!).

Bielefeld University is an equal opportunity employer. Women and members of minority groups including disabled persons are strongly encouraged to apply.

Prof. Ellen Baake, Technische Fakultät, Universität Bielefeld, Postfach 100131, 33501 Bielefeld, Germany phone (+49) 521 106 4896 email: ebaake@techfak.uni-bielefeld.de URL: <http://www.TechFak.Uni-Bielefeld.DE/ags/bm/ebaake@techfak.uni-bielefeld.de>

DukeU Evolutionary Biol

Postdoctoral Position in Evolutionary Biology at Duke University

Applications are invited for a postdoctoral (Associate in Research) position to study mechanisms of female dominance and reproductive skew in meerkats.

Occupational Summary:

A full-time research position, funded by the National Science Foundation, is immediately available to assist with an integrative project that combines behavioral, endocrine, and chemical approaches to study female development. The work is to be conducted partly at Duke University (<http://evolutionaryanthropology.duke.edu/>) in North Carolina and partly at the Kalahari Meerkat Project (<http://www.kalahari-meerkats.com/>) in South Africa. Applicants should be ready to spend up to six-month stretches in the field; field experience in behavioral endocrinology is preferred. Experience in analytical chemistry and other laboratory techniques is desired,

but on-the-job training is available. The opportunity to develop independent research is also available. The initial appointment is for one year, with subsequent funding (up to 4 years) conditional on satisfactory performance. Salary will be partly based on previous experience and includes benefits.

Qualifications:

The successful candidate will have earned a PhD in a relevant discipline.

Applicants should have a strong background in one or more of the following areas: animal behavior/behavioral ecology, endocrinology, chemical ecology, evolutionary or field biology, population dynamics/genetics.

Experience working with wild animals and in a laboratory is required

The applicant should work well independently and as part of a team, and should be enthusiastic and highly motivated.

Responsibilities:

Animal handling and administration of hormonal preparations

Behavioral data collection on free-ranging meerkats, using hand-held computers

Collection of biological material (blood, fecal, glandular) from animals

Oversight of field assistants on all aspects of data collection

Transportation or shipment of biological samples to the US

Performance of various assays (e.g. RIA, EIA, GCMS, LCMS, HPLC)

(Assistance in DNA extraction and various genetic analyses, as necessary)

Data maintenance and analysis

Coordination with field and laboratory managers

Assistance in the training and review of new personnel or procedural developments

Performance of other related duties incidental to the work described herein

Please email an application, consisting of a cover letter summarizing your qualifications and interests, curriculum vitae, representative reprints or preprints, and the names and contact information for two references, to Christine Drea (cdrea@duke.edu). Evaluation of applicants will begin immediately and will continue until the

position is filled.

Duke University is an Affirmative Action/Equal Opportunity Employer.

Christine Drea <cdrea@duke.edu>

DukeU FungalDiversity

Postdoctoral Position V Transcriptomics and Community Genomics of Ectomycorrhizal Fungi

Postdoctoral position in the Vilgalys Mycology Laboratory at Duke University to study functional, genetic, and community diversity of ectomycorrhizal fungi. We are currently seeking qualified applicants for a postdoctoral position to study functional and genetic diversity in a keystone plant-microbe symbiosis (pines and ectomycorrhizal fungi). In particular, we are interested in linkages between phylogenetic diversity, population structure, and functional diversity in mycorrhizal communities and also how these factors affect larger ecosystem processes. Ideal applicants should have a Ph.D. degree in any area of fungal and/or plant genetics, ecology, or bioinformatics along with relevant publications and laboratory experience. Previous experience with metagenomics and next-generation sequencing is desirable but not necessary for the position. This position is part of a collaborative research grant (NSF Dimensions of Biodiversity program) with faculty at University of Minnesota (Kabir Peay) and University of California at Berkeley (Tom Bruns & John Taylor). The postdoc chosen for this position will have opportunities to interact with investigators at all three institutions during project meetings and field work. Interested candidates should email (1) a cover letter explaining interest and relevant qualifications (e.g. technical or analytical skills), and (2) a CV listing education, relevant publications, and (3) names of 3 references to Dr. Rytas Vilgalys, Biology Department, Duke University (please collate and send as a single pdf to fungi@duke.edu). The position is available immediately and will remain open until a suitable candidate has been hired. For more information on the Vilgalys Lab see: <http://www.biology.duke.edu/fungi/mycolab/> Rytas Vilgalys, Ph.D. Biology Department Duke University Box 90338 Durham, NC 27708-0338 USA

email: fungi@duke.edu ph: 919-660-7361 fax: 919-660-7293

Rytas Vilgalys <fungi@duke.edu>

ETH Zurich ModellingAnimalSociety

Postdoc position: Data analysis on and modelling of Animal Societies

Full description: www.sg.ethz.ch/openpositions/-postdoc_animalsocieties See the announcement poster at www.sg.ethz.ch/openpositions/-poster_postdocanimalsocieties At the Chair of Systems Design of ETH Zurich (Switzerland), we use methods from complex systems theory to understand the structure and dynamics of social systems, ranging from animal groups to human social networks.

One of our areas of interest is the interplay between the social and spatial dimensions of collective behaviour in animal groups. By using locational and behavioural data coming from long-term projects on the study on social mammals, we are able to study the structure and dynamics of both the social network and collective movement of animal groups. The species of social mammals we study include meerkats as well as social bats and mice. We work in close collaboration with research groups in evolutionary biology from different universities in Europe to lead truly interdisciplinary research in the field.

We are looking for skilled, transdisciplinary, quantitative researchers, with a will to extend the application of their theoretical knowledge beyond the usual boundaries. They should be able to study large experimental datasets to identify universal patterns and statistical regularities. The candidate will be asked to work with biologists to frame these findings in a general, evolutionary context, and to develop formal models of animal behaviour.

The candidate will have the opportunity to integrate in a lively team of scientists with various backgrounds (from economics to computer science), and maintain close collaboration with behavioural biologists. Depending on the development of the project, opportunities to work in the field may be considered. The position requires strong communication skills and fluent English, written and spoken.

We offer excellent working conditions in a motivated team, a competitive salary (according to the ETH Zurich salary scale), and innovative research in close

collaboration with leading institutions all over the world. Applicants are asked to send their curriculum vitae, list of and links to their publications, names of at least three references, and an overview of their research interests (all in PDF files and in English) to Ms. Rachel Dulik, rdulik@ethz.ch. For specific inquiries, Prof. Frank Schweitzer (fschweitzer@ethz.ch) should be contacted.

Nicolas Perony. ETH Zurich, Nicolas Perony, Chair of Systems Design, KPL F 32, Kreuzplatz 5, CH-8032 Zurich, Switzerland Tel +41 44 632 81 98, Fax +41 44 632 18 80 <http://www.sg.ethz.ch/people/perony>
Nicolas Perony <nperony@ethz.ch>

HarvardU ComparativeGenomics

POSTDOCTORAL FELLOWSHIP Comparative Genomics and Conservation of the World's Largest Flowers, Rafflesiaceae DAVIS LABORATORY, HARVARD UNIVERSITY, CAMBRIDGE, MA, USA

The Davis laboratory at Harvard University is searching for a full-time postdoctoral fellow to direct research on the comparative genomics and conservation status of the holoparasitic plant clade, Rafflesiaceae, including their closest relatives and obligate hosts. The fellowship is funded by the U.S. National Science Foundation for a period of two years. The Davis laboratory focuses on a variety of topics that integrate the fields of evolution, ecology, systematics, paleobiology, and molecular biology.

Applicants must be genuinely fascinated by basic research. The laboratory is housed at the Harvard University Herbaria in Cambridge, MA, a vibrant intellectual community in close proximity to numerous scientific and cultural resources. The fellow will work collaboratively with Professor Charles Davis and graduate student Zhenxiang Xi to extract RNA/DNA and create EST libraries, and to use a wide range of bioinformatics techniques to analyze data. Research will coordinate with ongoing sequencing of various Rafflesiaceae genomes, their closest relatives, and their obligate hosts.

This postdoctoral fellowship requires an independent, organized, and motivated individual with demonstrated skills and experience in molecular techniques and bioinformatics. Prior experience with next generation sequencing and bioinformatics skills (e.g., Perl and Shell scripting) is a requirement. Importantly, we are looking

for someone who is personable, motivated and enthusiastic about working in a collaborative environment.

Information about the Davis laboratory can be found at <http://www.people.fas.harvard.edu/~ccdavis/> Informal inquiries can be directed to Charles Davis at cdavis@oeb.harvard.edu. Formal applications should be made to the administration, by emailing Peg Richards at prichards@oeb.harvard.edu. Please send a letter describing your research interests and experience, a C.V., and contact information for three references. Applications will be reviewed beginning September 15, 2011 and will be accepted until a suitable candidate is found.

Harvard University is an equal opportunity, affirmative action, non-smoking workplace.

Christopher Preheim

Academic Programs Coordinator Harvard University
Dept. of Organismic and Evolutionary Biology 617-384-9271

“Preheim, Christopher” <cpreheim@oeb.harvard.edu>

Heidelberg PlantAdaptation

Introgression Genomics and adaptation in wild relatives of Arabidopsis

We invite applications for two positions as
POSTDOCTORAL SCIENTIST

to work on a joint (bi-national) project within the DFG-funded German Priority Program “Adaptomics - Evolutionary Plant Solutions to Ecological Challenges”. Based on a population genomics/transcriptomics approach we aim to analyze the genetic basis of edaphic adaptation in outcrossing Arabidopsis species and to study a natural hybridization and introgression zone of these species in the north-eastern Limestone Forealps. Massive parallel DNA sequencing will be used to identify genomic regions associated with edaphic adaptation in diploid populations of both species. Reciprocal cultivation experiments with material from different edaphically adapted populations will be conducted to assess the extend of soil type adaptation and to study, at the transcriptome level, genetic differences that have evolved on different substrate types.

The project will be carried out in Zürich and Heidelberg and will be conducted in close collaboration

with other research teams within the program (<http://www.ruhr-uni-bochum.de/dfg-spp1529/>). For details of the study system: refer to our most recent contribution in PNAS (August 2011): www.pnas.org/cgi/doi/10.1073/pnas.1104212108 Highly motivated candidates with a Ph. D. degree, a strong background in population genetics and genomics, evolutionary biology or bioinformatics, and a record of scientific publications are welcome to apply. The ideal candidate has experience with high-throughput sequencing technologies and data analyses and a solid background in population genetics and statistical analysis. The project requires team working skills and the willingness to develop the project further in a collaborative way.

The successful applicants will be appointed for up to three years. For the German partner in Heidelberg the salary will be according to the German government salary scale (TV-L E13) and depends on previous experience, age and marital status. For the Swiss partner, salary will be determined accordingly, but following ETH Zurich salary scales. The ETH Zürich and University of Heidelberg are equal opportunity employers. Women and members of minority groups are strongly encouraged to apply.

Heidelberg and Zürich are wonderful places to conduct research and to live. We are offering a scientifically stimulating atmosphere, the possibility to conduct cutting-edge plant evolutionary research and to develop the project into an anticipated second funding period of another three years. Further information about the groups in Zürich and Heidelberg can be obtained from <http://www.peg.ethz.ch/> and <http://www.bot.uni-heidelberg.de/> or the addresses given below.

Please send your application (Cover letter, CV, list of publications, letter of research interests, addresses of at least two references) until 15 September 2011 as a single PDF document with the subject line “Arabidopsis Adaptomics” by email to both, marcus.koch@cos.uni-heidelberg.de and alex.widmer@env.ethz.ch

Prof. Dr. Marcus Koch Centre for Organismal Studies (COS) Heidelberg Biodiversity and Plant Systematics Im Neuenheimer Feld 345 D-69120 Heidelberg Phone: +49 6221 54 4655 Email: marcus.koch@cos.uni-heidelberg.de

Prof. Alex Widmer ETH Zurich Institute of Integrative Biology (IBZ) Universitätstrasse 16 CH-8092 Zürich Email: alex.widmer@env.ethz.ch

alex.widmer@env.ethz.ch

ManchesterU PhylogeneticModelling

A BBSRC funded position is available in my lab working on the computational identification of protein-protein interactions.

Project description

To fully understand biological systems we need to know how the individual components interact. There is an on-going international research effort to catalogue protein-protein interactions (PPIs), and to extend this knowledge into complex mathematical models of cellular function, via systems biology. What we lack, however, is reliable computational tools for identifying which proteins from a system interact and the residues responsible for that interaction. The aim of this project is to exploit our knowledge of how proteins change and adapt during evolution to produce more effective inferential tools. These tools will be applied to the yeast model system to generate experimentally testable hypotheses, which in turn will be tested through collaboration with wet-lab scientists.

We are looking for an experienced and talented individual capable of developing numerical tools usable by computational biologists. The methods you will develop will be based on using phylogenetic methods for investigating how sequences change over time. Specifically, work will require developing and implementing models for detecting co-evolving residues in pairs of proteins and using these models to infer PPIs. You will need to be able to communicate your results to a range of audiences, ranging from statisticians to wet-lab scientists.

The position is available immediately for up to 24 months in the first instance.

Salary will be within the range £29,099 - £35,788 per annum.

Informal enquiries may be made to Dr Simon Whelan. Email: Simon.Whelan@manchester.ac.uk

Applications should be returned by 15 August 2011 to: Directorate of Human Resources, The University of Manchester, Faculty of Life Sciences, 1.52 Simon Building, Brunswick Street, Manchester, M13 9PL. Email: lifesciences-hr@manchester.ac.uk //

f- Simon Whelan | T: +44-(0)161-3068901 | F:

+44-(0)161-2755586 Computational and Evolutionary Biology, University of Manchester Michael Smith Building, Oxford Road, Manchester, M13 9PT, UK <http://www.ls.manchester.ac.uk/people/profile/index.aspx?PersonID=3D1716> [si-mon.whelan@manchester.ac.uk](mailto:simon.whelan@manchester.ac.uk)

McGillU Biodiversity

Long-term postdoctoral position in theoretical ecology

I am recruiting a postdoctoral fellow on a long-term contract as part of the creation of a Centre for Biodiversity Theory and Modelling at the Experimental Ecology Station in Moulis, France. The mission of the new Centre will be to foster and perform innovative theoretical research into the ecological and societal causes and consequences of biodiversity changes. Two additional postdoctoral fellowships will be available in 2012.

The recruited postdoc will help to develop ecological theory in one or several of the following areas: (1) maintenance and functional consequences of biodiversity; (2) effects of biodiversity changes on ecosystem functioning, stability, and services; (3) dynamics and functioning of metacommunities and metaecosystems; (4) environmental changes and evolution of ecosystems; and (5) humans in the biosphere. Theory is understood here broadly as including the following components: (1) development of new concepts; (2) building and analysis of mathematical models; and (3) application of these concepts and models to empirical data.

The position is available for a period of 3-5 years starting before the end of 2011, with a contract as IR2 (net monthly salary of about 2,200) renewed on a yearly basis. Applicants should meet the following requirements: (1) have a PhD in ecology or related disciplines; (2) have strong quantitative or mathematical skills; and (3) develop an independent research project in one or several of the above areas.

Review of applications will begin immediately and will continue until the position is filled. To apply, e-mail a letter of application, a CV, a statement of research interests, and arrange to have two letters of recommendation (in either French or English) e-mailed to me.

Michel Loreau Email: michel.loreau@mcgill.ca Web page: <http://www.biology.mcgill.ca/faculty/loreau/> Current address: Department of Biology, McGill University, Montreal, Canada Forthcoming address: Sta-

tion d'Ecologie expÃ©rimentale, Centre National de la Recherche Scientifique, Moulis, France

Michel Loreau Professor Canada Research Chair in Theoretical Ecology

Department of Biology McGill University 1205, avenue Docteur Penfield Montreal, Quebec H3A 1B1, Canada Telephone: +1 514 398 3778 Fax: +1 514 398 5069 E-mail: michel.loreau@mcgill.ca Publications available at <http://www.biology.mcgill.ca/faculty/loreau/> Michel Loreau <michel.loreau@mcgill.ca>

Paris Phylogenetics

A highly motivated postdoctoral researcher is sought to work on a collaborative project lead by Hlne Morlon (<http://www.cmap.polytechnique.fr/~morlon/>) at the Center for Applied Mathematics at the Ecole Polytechnique in Paris.

The successful candidate will be supported by a three year grant from the French National Research Agency (ANR) whose goal is to integrate phylogenetics, biogeography and functional ecology to analyze the ecological determinants of diversification in various clades and at various scales. This project includes: 1) a theoretical component aiming to develop individual- and lineage-based models of the dynamics of diversification in a non-spatial and then in a spatial context, and 2) an empirical component aiming to identify ecological factors influencing the tempo and mode of diversification using large datasets for flowering plants, mammals and birds (encompassing species phylogeny, geographic location, a set of particular traits and potential fossil record). The candidate will work on either one or both of these research axes. He/she should have a Ph.D. in ecology, phylogenetics, mathematics, or bioinformatics with a solid background in at least one of the other areas, and a good publication record. Speaking French is not mandatory; fluency in English will be highly appreciated.

The researcher will have opportunities to work closely with collaborators on this project with expertise in applied mathematics, phylogenetics, and ecology (in particular Vincent Bansaye, Franck Jabot, Herv Sauquet, Cyrille Violle, and Amandine Vber).

Review of applications begins immediately and will continue until the position is filled. The start date is flexible. Three years of funding are available; the ap-

pointment will be made on an annual basis. To apply, please submit curriculum vitae (including publications), brief statement of research interests, and names and contact information for 3 references to helene.morlon@polytechnique.edu. Please don't hesitate to email questions regarding the position.

Helene Morlon <helene.morlon@cmap.polytechnique.fr>

ReedCollege EvolutionaryGenetics

Post-doctoral Researcher Position in Evolutionary Genetics and Genomics

Candidates sought for a 2 year post-doctoral position in the laboratory of Dr. Sarah Schaack in the Dept. of Biology at Reed College in Portland, OR.

Individual and collaborative projects will focus on topics such as spontaneous mutation rates, fitness effects of mutation, transposable element evolution, horizontal transfer of transposable elements, recombination, and/or related questions in evolutionary and ecological genetics and genomics. Live animal research conducted in the lab takes advantage of the background information and tools available for *Daphnia* spp. (freshwater microcrustacea), but other eukaryotic systems for which genomic data are or soon will be available could also be explored.

Required: Ability to perform standard molecular and computational genetic techniques, design experiments, organize and analyze data, and communicate results (orally and in writing). Strongly desired: Experience with next gen sequencing or sequence data and related bioinformatic/ computational/ programming skills. Experience working with *Daphnia* or other lab-reared invertebrates is not required, but would be considered a big plus.

Reed is a highly rigorous undergraduate institution with a strong research emphasis offering a unique training environment (including close collaboration with the PI, talented undergraduates, and the opportunity to network citywide).

Start date is flexible, with earliest date being January 2012. To apply, send a cover letter detailing your research interests and training goals. Also include a CV with contact information for 3 references to Sarah Schaack at the following e-mail address: schaack@reed.edu with EVOGEN POST-DOC in the subject line. Reed College is an Equal Opportunity

Employer. To receive full consideration, send materials on or before Nov. 1, 2011, however applicants will be considered until the position is filled.

Sarah Schaack, PhD Reed College Assistant Professor
Department of Biology, B106 3203 Southeast Woodstock Boulevard Portland, OR 97202 office: 503-517-7948 lab: 503-517-7976 Email: schaack@reed.edu
Website: <https://sites.google.com/site/schaackwork/schaackmobile@gmail.com>

Roscoff France LifeCycleEvolution

Postdoc position : New insights into the evolution of haploid-diploid life cycles through population genetics and ecology of the brown alga *Ectocarpus*.

We are offering a 24-months position for a postdoc in evolutionary biology. The successful applicant will be integrated in a research program financed by a grant from the French Agence Nationale de la Recherche (ANR) to explore the genetics, molecular basis and evolution of the biphasic haploid-diploid life cycle in *Ectocarpus*, the genetic and genomic model organism for brown algae (ANR Bi-cycle, available on request).

Despite considerable theoretical work, there is still no unequivocal explanation for the existence and stability of a broad diversity of life cycles in nature, ranging from diploid through haploid-diploid to haploid life cycles. The aim of the post doc position is to improve our understanding of the life cycle of the filamentous brown alga *Ectocarpus* through a combination of field studies, laboratory-based experiments and population genetics analyses. The field studies will concentrate on understanding how the life cycle functions under field conditions. The questions that will be asked include: Are the sporophyte and gametophyte generations of equal importance in terms of time of persistence and prevalence in the field? Do sporophytes and gametophytes exploit different ecological niches? The project will also investigate this last question through controlled laboratory experiments. *Ectocarpus* exhibits a complex life cycle with a combination of sexual and asexual reproduction in the laboratory; the aim will be to determine how (and if) the various possibilities presented by this complex life cycle are exploited by this organism under field conditions using population genetics tools. The data from these different analyses will be used to address fundamental questions such as the problem of the stability of haploid-diploid life cycles and the influence

of the benefits and costs of sex on the evolution of an organism's life cycle.

The selected candidate will work in the Station Biologique de Roscoff located in Brittany (France) within the team "Evolutionary Biology and Marine Diversity" (BEDIM, UMR 7144). This team combines complementary skills (theoretical and experimental population genetics, molecular ecology and reproductive ecology) in an integrative approach. Besides the common research facilities provided by the Station Biologique de Roscoff, the group has the equipment required for field sampling and surveys, genotyping and sequencing, control experiments in the lab (easy access to the field, PCR thermocyclers, computers, three automated DNA sequencers, algae culture facilities). The project will be conducted in close relationship with the SME Bezhin Rosko, a small enterprise run by an experienced seaweed scientist providing knowledge on algal field populations, as well as experience with the isolation and purifications of strains.

Required qualifications: We are looking for a candidate with a strong background in evolutionary biology, population genetics and molecular ecology. A solid background in spatial analysis methodology is required. Experience with one or more of the following skills is a plus: matrix population modelling in order to analyse demographic parameters and to integrate population dynamics with population structure; experience with ecological controlled experimental design; programming skills (R).

Interested candidates should send their CV, along with a letter stating their interest and contact details of two references to akirapeters@gmail.com and valero@sb-roscoff.fr

This position will be available in January 2012, Salary according to the experience and the CNRS grid Application deadline November 30, 2011

Myriam Valero UMR CNRS/UPMC 7144, équipe BEDIM Station Biologique de Roscoff BP74, Place Georges Teissier 29682 Roscoff cedex

tel: 0298292328

<http://www.sb-roscoff.fr/bedim.html> Myriam Valero <valero@sb-roscoff.fr>

**RoslinInst Edinburgh
StatisticalQuantGenetics**

The Roslin Institute: Research Fellow in Statistical Genetics The postdoctoral fellow will join a project funded by Cancer Research UK in Dr Albert Tenesa's dry-lab. The project aims to develop methodology for the prediction of cancer risk using large numbers of genetic and environmental factors. The project will involve development of methodology, testing the methodology using simulated data and applying novel and existing methodology of genomic prediction to large colorectal cancer genome-wide association studies. A PhD in statistics, statistical or quantitative genetics is essential. A strong track record in quantitative and statistical genetics, with experience in Bayesian statistics, regularisation methods and mixed-models will be an advantage. The postdoctoral scientist will take advantage of the unique skills and resources available within The Roslin Institute Building and will have close collaborative links with the Edinburgh Parallel Computing Centre and the Institute of Genetics and Molecular Medicine in Edinburgh. The postdoctoral fellow will work particularly close to the labs of Professor Chris Haley (IGMM/ Roslin Institute) and Professor John Woolliams (Roslin Institute).

http://www.jobs.ed.ac.uk/vacancies/-index.cfm?fuseaction=vacancies.detail&vacancy_ref=-3014706 Albert Tenesa <albert.tenesa@ed.ac.uk>

SangerInst BacterialGenomics

Postdoctoral position in Pathogen Genomics

Wellcome Trust Sanger Institute

£28,280 - 35,441

The Wellcome Trust Sanger Institute is a world leader in genomic research, with an expanding scientific programme dedicated to understanding gene function in health & disease.

We have an exciting new role available for a dynamic postdoctoral scientist using genomics to study a major human pathogen in the context of high disease burden across Africa. The successful candidate will be primarily based at the Sanger Institute with regular visits to collaborative sites in several African countries and will be active in data analysis/interpretation and building bioinformatic analysis capacity at the African sites.

The post is funded through a Bill & Melinda Gates Foundation consortium project focused on genomics of serotype 1 *Streptococcus pneumoniae*, a major cause

of morbidity and mortality throughout sub-Saharan Africa which exhibits a strong association with invasive disease and may occur in outbreaks or epidemics. The scientific aim of the project is to create a better understanding of the evolution of this distinct, region-specific clone in order to inform the development of clinical interventions, particularly vaccines. The project also targets capacity building for bioinformatic expertise across the consortium.

Essential Skills The successful candidate will have the following knowledge, experience and skills: PhD in Molecular Biology, Microbiology, Bioinformatics or related field Proven knowledge of current phylogenetic and evolutionary concepts Processing and analysis of large, genomic and epidemiologic datasets Experience of relevant programming languages such as PERL, PYTHON, Java Very strong interpersonal and communication skills Experience of training and supervising students and other team members Strong publication record

Ideal Skills Expertise in coordination of multi-partner projects concerning genetic and epidemiologic analysis of bacterial pathogens. Other information Postdoctoral Fellows are typically in their first or second postdoctoral position as part of a period of early career research training. This position is initially for a fixed term of 2.5 years. For further information please contact Sophie Palmer (sophie@sanger.ac.uk) Benefits The Institute has excellent purpose built facilities on the Genome Campus, Hinxton on the outskirts of Cambridge. We offer a comprehensive range of benefits including a final salary pension scheme and excellent on-site facilities. Further details can be found on our website <https://jobs.sanger.ac.uk>, To submit your CV and apply for this job please go to <https://jobs.sanger.ac.uk> , to register and apply on line. Click here for Employer Profile

Stephen Bentley Principal Scientist Pathogen Genomics Wellcome Trust Sanger Institute

Associate Editor Microbiology Journal

Honorary Lecturer University of Liverpool

Stephen Bentley <sdbs@sanger.ac.uk>

SantaFeInst EvolBiology

The Omidyar Postdoctoral Fellowship at the Santa Fe Institute offers you: > unparalleled intellectual freedom > transdisciplinary collaboration with leading re-

searchers worldwide > up to three years in residence in Santa Fe, NM > discretionary research and collaboration funds > individualized mentorship and preparation for your next leadership role > an intimate, creative work environment with an expansive sky

The Omidyar Fellowship at the Santa Fe Institute is unique among postdoctoral appointments. The Institute has no formal programs or departments. Research is collaborative and spans the physical, natural, and social sciences. Most research is theoretical and/or computational in nature, although it may include an empirical component. SFI typically has 15 Omidyar Fellows and postdoctoral researchers, 15 resident faculty, 95 external faculty, and 250 visitors per year. Descriptions of the research themes and interests of the faculty and current Fellows can be found at <http://www.santafe.edu/research> . Requirements: > a Ph.D. in any discipline (or expect to receive one by September 2012) > computational and quantitative skills > an exemplary academic record > a proven ability to work independently and collaboratively > a demonstrated interest in multidisciplinary research > evidence of the ability to think outside traditional paradigms

Applications are welcome from: > candidates from any country > candidates from any discipline > women and minorities, as they are especially encouraged to apply.

The Santa Fe Institute is an Equal Opportunity Employer.

Deadline: 1 November 2011 To apply: www.santafe.edu We accept online applications ONLY. Inquiries: email to ofellowshipinfo at santafe dot edu

The Santa Fe Institute is a private, independent, multidisciplinary research and education center founded in 1984. Since its founding, SFI has devoted itself to creating a new kind of scientific research community, pursuing emerging synthesis in science. Operating as a visiting institution, SFI seeks to catalyze new collaborative, multidisciplinary research; to break down the barriers between the traditional disciplines; to spread its ideas and methodologies to other institutions; and to encourage the practical application of its results.

The Omidyar Fellowship at the Santa Fe Institute is made possible by a generous gift from Pierre and Pam Omidyar.

bkimbellsfi@gmail.com

StJohnsU PlantEvoDevo

StJohnsU.PlantEvoDevo

Postdoctoral Research Position, St. John's University
 An NSF funded postdoctoral position is available in the Howarth laboratory at St. John's University in the plant evo-devo project: ³The role of gene duplication in the floral symmetry pathway in Dipsacales.² The lab's primary focus is in flower morphology and flower symmetry evolution. The project entails the examination of the correlation between evolutionary transitions among different types of flower symmetry and molecular shifts in gene duplication, expression, and function of genes such as CYCLOIDEA, DIVARICATA, and RADIALIS. We use a model clade approach to examine these shifts across the Dipsacales focusing on groups such as Viburnum, Lonicera, and Fedia, among others.

Strong candidates will have a Ph.D. in developmental biology, molecular biology, evolution, or related fields, and have demonstrated experience with standard molecular biology techniques. Candidates must have experience with or an enthusiastic willingness to learn developmental techniques such as gene silencing assays (VIGS) and in situ hybridization.

Funding is available for up to 3 years. Review of applications will begin Sept. 1st and continue until the position is filled. The target start date is approximately December 1st 2011. Please e-mail CV, research statement and 3 reference contacts to howarthd@stjohns.edu.

St. John's University is an equal opportunity employer located in Queens, NY. Women and minorities are encouraged to apply. For further information, please contact Dr. Dianella Howarth via email at howarthd@stjohns.edu, via mail at St. Alberts Hall, Room 257, St. John's University, 8000 Utopia Parkway, Queens, NY 11439, or view our website at <http://www.phylodiversity.net/dhowarth/> . Dianella G. Howarth, Ph.D.

St. John's University Department of Biological Sciences
 St. Alberts Hall, RM 257 8000 Utopia Pkwy Jamaica, NY 11439

718 990-6790 (Lab) 718 990-6269 (Office)

Dianella Howarth <howarthd@stjohns.edu>

UAlgarve EvolutionFishOlfaction

Our project aims to address the question of "How did vertebrates first adapt and evolve from seawater to freshwater". This striking question has provoked many physiological and molecular studies, looking at the characteristics in several species that may mirror those of the primitive ancestor that originally conquered freshwater. We propose to study adaptation of olfactory function in the amphihaline (separate life stages in fresh and seawater) eel. Our hypothesis is that eel have evolved - of necessity - a high plasticity in olfactory receptor (OR) expression that allows physiological adjustments to face changes in aquatic media during major life events such as reproduction and migration.

The advertisement is as follows:

A postdoctoral position is available at the Centro do CiÁncias do Mar (CCMAR) at Universidade do Algarve in Faro, Portugal. Our group work focuses on olfactory physiology of fish olfaction and pheromonal communication and we are looking for a specialist who will characterize olfactory receptors in the European eel. The ideal candidate would have a Ph.D. plus experience in molecular biology, including statistical and computational analyses, and an understanding of experimental techniques related to next-generation sequencing, genotyping, and functional genomics. Applicants must be self-motivated, creative, and interested in working closely with researchers with a strong physiology and endocrinology background in a collaborative environment. Applications are open from 26th July to 19th August with position starting on 15th September for 22 months in the first instance (with the possibility for prolongation). Salary is 17,940 per annum (income tax exempt). Please address informal inquiries to mhurtas@ualg.pt. For more information and application details see on <http://www.ccmар.ualg.pt/home/-index.php?id=996> Thank you very much

Mar Huertas (PhD) Molecular and Comparative Endocrinology Centre of Marine Sciences University of Algarve Campus de Gambelas 8005-139 Faro, Portugal
 Phone: +351 289 800 051 Fax: +351 289 800 051

Mar <mhurtas@ualg.pt>

UArizona EvolutionaryBiol

Postdoctoral Positions Available: Research Associate Arizona Research Laboratories, University of Arizona, Tucson, AZ NIH-Training Program: Postdoctoral Excellence in Research and Teaching (PERT)

The Postdoctoral Excellence in Research and Teaching (PERT) Program is a comprehensive program which offers up to three years of support to outstanding candidates seeking advanced postdoctoral research training, teacher training and student mentorship opportunities in preparation for an academic career in biomedical and life sciences. Funded by NIGMS through an IRACDA (Institutional Research and Career Development Award) training grant, the PERT program also fosters ties between research-intensive institutions and minority-serving institutions.

PERT trainees may select from over thirty-six faculty research mentors at the University of Arizona, representing a broad range of disciplines in biomedicine, bioengineering, genetics, biochemistry, neurobiology, evolutionary biology, molecular/cellular biology, physiology and behavior. The program stresses the use of model organisms for biomedical and life sciences research. The program is administered through the Arizona Research Laboratories Center for Insect Science and is partnered with a Minority Serving Institution, Pima Community College, (<http://www.pima.edu/-program/biology/>). Starting salary, based on the NIH NRSA scale, will be \$37,740 for program participants with less than one year of postdoctoral experience. An annual allowance for research supplies and travel is also included. Positions are dependent upon continued funding. Additional information about the Center for Insect Science and the PERT program is available at <http://cis.arl.arizona.edu/PERT>. Qualifications: Applicants must have, as of the beginning date of the appointment, a Ph.D. in a related field from an accredited institution and must be U.S. citizens, permanent residents, or non-citizen nationals. Applicants should have no more than two previous years of postdoctoral experience at the time of application.

Application: All applicants must apply electronically through the University of Arizona's Career Track website at: <https://www.uacareertrack.com>, citing Job #47383. Applications can be submitted at any time with the possibility that applicants will be interviewed

as positions become open. However, the next batch review of applications will begin Monday, Oct. 17, 2011, for positions in 2012.

All applications are to include: – a letter of interest with a statement explaining how the PERT program will assist the applicant in his/her research and career goals. – a CV – a three to six page research proposal developed with the intended PERT faculty research mentor describing the project to be undertaken during the training period – three letters of reference – a letter of support from the intended faculty research mentor

Potential applicants are encouraged to contact relevant Program Faculty as soon as possible to discuss research projects and the application process. Original letters of reference and the letter from the proposed faculty research mentor should be mailed to: PERT, Center for Insect Science, 1007 E. Lowell Street, University of Arizona, Tucson, AZ 85721-0106. Emailed letters will be accepted only if accompanied by an electronic signature. The letter of interest, CV and research proposal must be submitted online through the UA Career Track website listed above. As an equal opportunity and affirmative action employer, the University of Arizona recognizes the power of a diverse community and encourages applications from individuals with varied experiences and backgrounds. Please contact Teresa Kudrna for more information, tkudrna@email.arizona.edu, 520-621-9310.

Thank you!

Teresa A. Kudrna Program Coordinator, Sr. Center for Insect Science & PERT Program University of Arizona 1007 E. Lowell Street, Room 227 Tucson, AZ 85721 520-621-9310 Fax: 520-621-2590 <http://cis.arl.arizona.edu> “Kudrna, Teresa A - (tkudrna)” <tkudrna@email.arizona.edu>

UArizona PlantMolecularEvol

A postdoctoral research associate position is available in the School of Plant Sciences at the University of Arizona to participate in a research project that focuses on understanding the molecular evolution and function of genes and associated networks that control plant adaptation to soil salinity. The build-up of salt in agricultural soils is a widespread problem that limits the growth and yield of important crop species worldwide. Genetic variation for plant growth in salinity (salt tolerance) exists; however, little is known about the genes

and pathways underlying this variation. Our studies involve phylogenetic surveys and comparative genomics within the Brassicaceae to assess the evolutionary forces acting on plant adaptation to salinity, mapping and isolation of genes that underlie natural variation for salt tolerance with screens of Arabidopsis accessions, and molecular genetic analyses of the functions of altered or novel alleles identified.

Preference will be given to a highly motivated, enthusiastic, and independent candidate with a Ph.D. and proven experience in molecular genetics and molecular biology and a strong background in evolutionary biology and/or genomics. Demonstrated written and oral communication skills and an ability to interact and work collaboratively with others are essential qualifications. The position is available September 1, 2011.

To apply, applicants should send a CV, a letter stating specific research interests, a summary of research accomplishments and future research objectives, and the names and contact information (address, phone, and e-mail) for three references to Dr. Karen Schumaker (schumake@ag.arizona.edu), School of Plant Sciences, University of Arizona, Tucson, Arizona 85721-0036. The University of Arizona is an EEO/AA Employer-M/W/D.V.

Karen Schumaker, Ph.D. Professor School of Plant Sciences, Department of Molecular and Cellular Biology, and the BIO5 Institute University of Arizona

Contact information: School of Plant Sciences 303 Forbes Hall 1140 E. South Campus Drive University of Arizona Tucson, AZ 85721-0036

Phone: (520) 621-9635 Fax: (520) 621-7186 <http://ag.arizona.edu/research/schumaker/> Karen Schumaker <schumake@ag.arizona.edu>

UCalifornia Davis PlantEvolGenetics

Postdoc in Plant Population Genomics at University of California, Davis

A postdoctoral position in plant evolutionary genomics is available in the Ross-Ibarra lab at the University of California, Davis. The position is available to start immediately, with the possibility of continued funding for a total of 3 years.

The funded project will investigate parallel adapta-

tion to high elevation environments in traditional open-pollinated maize varieties in Mexico and South America. To do this, we will be re-sequencing the complete genomes of multiple samples from both low and high elevation populations in both regions.

Applicants should have a PhD in evolution, genetics, genomics, computational biology, or a similar discipline. Demonstrated experience with high-density SNP data or next-generation sequence data and familiarity with a unix environment and at least one programming/scripting language is highly desired. Salary will be competitive and dependent on background and experience.

Applicants should send a cover letter, a CV with publications, and contact information for three references. Applications or queries should be directed to rossibarra@ucdavis.edu.

More information on the lab can be found at www.rilab.org and on UC Davis at www.ucdavis.edu

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Jeffrey Ross-Ibarra

Dept. of Plant Sciences and Genome Center 262 Robbins Hall, Mail Stop 4 University of California One Shields Ave Davis, CA 95616

Tel: 530-752-1152 Fax: 530-752-4604 www.rilab.org
rossibarra@ucdavis.edu

UChicago PopulationGenetics

Postdoc position, University of Chicago

A postdoctoral position is available in Molly Przeworski's lab at the University of Chicago. Current work in the group focuses on the causes and consequences of variation in recombination, as well as on a wide range of topics in evolution and population genetics; for more information, see <http://przeworski.uchicago.edu/>. The successful candidate will have considerable latitude to design his/her project.

Applicants for the position must have a background in theoretical population genetics or come from a quantitative field (such as statistics or computer science) and have a demonstrated interest in genetics and evolution. Strong programming and bioinformatics skills are essential. Informal inquiries as well as applications (including a CV, copies of relevant publications and two letters of recommendation) should be emailed to Molly

Przeworski at mfp@uchicago.edu. The starting date is negotiable but could be as early as fall 2011.

The group shares space and weekly lab meetings with those of Jonathan Pritchard and Matthew Stephens and enjoys close ties with other members of the Human Genetics and Ecology & Evolution departments, notably Anna Di Rienzo, Dick Hudson and Carole Ober. Moreover, it benefits from the large and outstanding community of researchers in population genetics, statistics and genomics at the University of Chicago.

Molly Przeworski Howard Hughes Medical Institute Dept. of Ecology & Evolution and Dept. of Human Genetics University of Chicago

molly.przew@gmail.com

UCincinnati EvolBiol SexualSelection

Post-Doctoral Researcher in Evolutionary Biology:
University of Cincinnati

With Dr. Michal Polak Department of Biological Sciences, University of Cincinnati, Cincinnati, OH USA

Position Description: An NSF-funded postdoctoral position (up to three years) is available in the laboratory of Dr. Michal Polak to collaborate on the study of the evolution of the remarkable male sex comb in *Drosophila*. The postdoctoral scientist will work closely with members of the principal investigator's lab, and interact with other faculty and members of the Sensory Biology, Behavior and Evolution (SSBE) group in the department (<http://www.artsci.uc.edu/biology/>).

The overall goal of the research is to test key predictions of the hypothesis that costly male secondary sexual traits evolve via post-copulatory sexual selection. The postdoctoral scientist will lead and conduct research focused on developing experimental lines via artificial selection for divergent comb phenotypes, and on a comprehensive examination of correlated responses to this experimental evolution. The research will involve laser microsurgical manipulation of the male sex comb to discriminate competing models of sexual selection.

Qualifications: Ideal qualifications include experience conducting behavioral, physiological and breeding experiments with insects, training in evolutionary ecology, quantitative genetics, and statistical analysis. However, applicants with some combination of the above qualifi-

cations will be given full consideration. The start-date for this position will be fall 2011 (exact date flexible), and salary will be competitive.

Candidates should have a PhD in evolutionary biology or related fields, and publications in peer-reviewed journals.

How to Apply: Go to <https://www.jobsatuc.com> and click on "Search Postings"; the Position Number is 211UC1310. Informal inquiries about the position can be made to Michal Polak at polakm@uc.edu.

Michal Polak Associate Professor and Director of Graduate Studies, Department of Biological Sciences University of Cincinnati Cincinnati, OH 45221-0006 USA Tel: +1 (513) 556-9736 <http://www.artsci.uc.edu/collegedepts/biology/-fac.staff/profile.details.aspx?ePID=Mjc5ODg%3D> polakm@ucmail.uc.edu

UExeter CampylobacterEvolution

Postdoctoral Researcher Positions on the Molecular Basis of Persister Cell Formation in *Campylobacter*

This post will be part of a multidisciplinary project that aims to decipher the molecular mechanisms underpinning the observation of persister cells in *Campylobacter jejuni* (Cj). The hired candidate will focus on the system dynamics analysis and in silico evolution of molecular systems that can underlie persister cell formation and will also analyse the interaction between signalling and metabolism in the persister phenotype. These theoretical analyses will be performed in conjunction with experimental and bioinformatics work, which will focus on the characterisation of the persister phenotype.

Further information and application details are available here; <http://job-lin-mul-102.eduserv.org.uk/job/-ADC502/associate-research-fellow> best regards,

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

ULeuven 2 EvolutionaryBiol

1. A postdoc position is available in the research group of Prof. Tom Wenseleers (University of Leuven, Belgium) to work on an interdisciplinary research project entitled "Socio-evolutionary dynamics of microbes". The project will make use of individual-based models, as well as differential equation and inclusive fitness-type models, to look at the evolution of flocculation and green-beard recognition in yeast, as well as the evolution of persistence and antibiotic tolerance in *Pseudomonas aeruginosa*. The developed models will be validated using empirical data provided by the collaborating groups of Profs. Kevin Verstrepen and Jan Michiels.

Key words: sociomicrobiology, social evolution theory, Darwinian medicine, inclusive fitness theory

Key references: Smukalla, S., Caldara, M., Pochet, N., Beauvais, A., Guadagnini, S., Yan, C., Vincas, M. D., Jansen, A., Prevost, M. C., Latge, J. P., Fink, G. R., Foster, K. R. & Verstrepen, K. J. 2008. FLO1 Is a Variable Green Beard Gene that Drives Biofilm-like Cooperation in Budding Yeast. *Cell*, 135, 726-737. Gardner, A., West, S. & Griffin, A. 2007. Is bacterial persistence a social trait? *PLoS ONE*, 8, e752.

Start: autumn 2011, funding guaranteed for one year, but extension possible, salary on postdoc scale

Required: - Master in Biology, Bioengineering, Physics or Mathematics - Strong interest in theoretical modelling and good ability to work in a team.- Ready to present for a Skype interview.

Application: send your CV to Prof. Tom Wenseleers (tom.wenseleers@bio.kuleuven.be) before September 1, 2011.

General information on the research groups involved: <http://www.biw.kuleuven.be/dtp/cmpg/G%26G1/> <http://www.biw.kuleuven.be/dtp/cmpg/research.aspx> <http://bio.kuleuven.be/ento/wenseleers/twenseleers.htm> http://bio.kuleuven.be/de/dea/people_detail.php?pass_id=u0008482 2. A postdoc position is available in the research group of Prof. Tom Wenseleers (University of Leuven, Belgium) to work on an interdisciplinary research project on Evolutionary Robotics. The ESF-funded project will be carried out in close collaboration with Prof. Marco Dorigo (ULB), Stefano Nolfi (Rome) and

Francesco Mondada (Lausanne) and will use social evolution theory and evolutionary multiagent systems to promote cooperation among swarms of robots to carry out collective tasks. The candidate will be based partly in the lab of Prof. Marco Dorigo and partly in the lab of Prof. Wenseleers.

Key words: evolutionary robotics, social evolution

Key references: Floreano, D. & Keller, L. 2010. Evolution of Adaptive Behaviour in Robots by Means of Darwinian Selection. *Plos Biology*, 8, e1000292. Waibel, M., Floreano, D. & Keller, L. 2011. A Quantitative Test of Hamilton's Rule for the Evolution of Altruism. *Plos Biology*, 9, e1000615.

Start date: autumn 2011, funding guaranteed for three years, salary on postdoc scale

Required: - Master in Computer Science, Engineering or Artificial Intelligence - Strong interest in evolutionary robotics and artificial intelligence, good programming skills, good ability to work in a team. - Ready to present for a Skype interview.

Application: send your CV to Prof. Tom Wenseleers (tom.wenseleers@bio.kuleuven.be) before September 1, 2011.

General information on two of the research groups involved: <http://bio.kuleuven.be/ento/wenseleers/twenseleers.htm> <http://iridia.ulb.ac.be/~mdorigo/HomePageDorigo/> 3. A PhD scholarship is available in the research group of Prof. Tom Wenseleers (University of Leuven, Belgium) to work on the evolution of conflict and cooperation in the mutualism between ants and aphids.

Key words: evolution of mutualisms, social evolution, ant-aphid mutualism

Key reference: A. Vantaux, J. Billen & T. Wenseleers (2011) Levels of clonal mixing in the black bean aphid *Aphis fabae*, a facultative ant mutualist. *Molecular Ecology*, doi: 10.1111/j.1365-294X.2011.05204.x.

Start date: autumn 2011, funding guaranteed for three years

Required: - Master in Biology or BioEngineering - Strong interest in social evolution theory, good ability to work in a team. - Ready to present for a Skype interview.

Application: send your CV to Prof. Tom Wenseleers (tom.wenseleers@bio.kuleuven.be) before September 1, 2011.

General information on the research group: <http://bio.kuleuven.be/ento/wenseleers/twenseleers.htm> Prof. Tom Wenseleers * Lab. of Entomology Dept. of

Biology Zoological Institute

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To read the entire message look it up at <http://life.biology-mcmaster.ca/~brian/evodir.html>

<http://psiweb.unl.edu/mower/index.html>

jpmower@hotmail.com

UNebraska PlantEvolutionaryGenomics

An NSF-funded postdoctoral position in evolutionary comparative genomics is available in the Mower lab at the University of Nebraska-Lincoln. The position is available starting in November 2011 (or later), with the possibility of continuing support for up to 3 years. The major goals of the project are to understand various processes of genome evolution including mutation rate change, intron gain and loss, and horizontal gene transfer. For this work, complete organellar genomes will be sequenced and analyzed from numerous closely-related species within a single plant family. A PhD in evolution, genetics, genomics, bioinformatics, computational biology or similar field is required. The ideal applicant should have an interest and demonstrable experience 1) assembling and annotating genomes/transcriptomes using next-gen data, 2) evaluating genomic/transcriptomic data using tools of molecular evolution, comparative genomics, and phylogenetics, 3) programming in a Linux environment using Perl or Python (or similar language), and 4) using relevant software packages for genome assembly, molecular evolution, and phylogenetic hypothesis testing. Salary will be highly competitive and dependent upon candidate's background and experience. Applicants should submit a cover letter describing previous experience and fit to the position, full CV with a list of publications, and three letters of reference. Applications and all queries may be sent to jmower2@unl.edu. Applications will begin to be reviewed October 1, 2011 but will continue to be accepted until the position is filled.

Jeff Mower

Center for Plant Science Innovation and
Department of Agronomy and Horticulture

University of Nebraska Lincoln

Lincoln, NE 68588

jmower2@unl.edu

UNeuchatel PlantInsectInteractions

We are what we eat - This old Chinese saying is especially true for insect herbivores that feed on a single plant during their whole development. As part of an international collaboration, we recently started to investigate the role of benzoxazinoids (BXDs) in plant insect interactions. BXDs are key defensive metabolites in grasses, and our project aims at unraveling their role in maize resistance by investigating both the plant and the insect simultaneously. By bringing together plant biochemistry, molecular biology, ecology, behavior and insect physiology, this initiative will contribute significantly to the study of BXDs as a model for plant-insect coevolution and as natural pest control agents.

In this context, we are inviting applications for a Post Doctoral Fellowship in Plant-Insect Ecology

Based at the University of Neuchatel, the fellow will investigate the role of BXDs in the interaction of maize with different insect herbivores. This includes developing and conducting in vivo and in vitro behavioral experiments with several herbivore species in the laboratory and the field. Furthermore, the successful candidate will establish a close collaboration with the other partners of the initiative working on molecular, biochemical, phytochemical and applied aspects of the system. In this context, a highly integrated workflow will ensure that results are quickly exchanged and hypotheses generated by one discipline will be taken up and tested by the others. The Post Doc will also supervise a technician, which in turn will assist in the practical aspects of the project.

We expect: A PhD in plant-insect interactions, behavioral ecology, chemical ecology or a related field. High proficiency in all aspects of hypothesis-driven scientific work, from the initial idea to the submission of the final manuscript. A strong interdisciplinary interest coupled with good communication and supervision skills. Willingness to visit partner laboratories and international conferences on a regular basis.

We offer: An excellent research environment with enthusiastic scientists from different nationalities and scientific backgrounds. The possibility to learn state-of-the art techniques from ³genes to agroecosystems². A

pleasant surrounding with a high quality of live and outstanding public services.

The deadline for applications is August 31, 2011. Interviews will start early in September. The positions will be available from October 2011. Please send your application (Word or pdf document) including a CV, letter of motivation and research interests as well as contact details of two references via e-mail to: matthias.held@unine.ch

For more information, contact the project leader, Matthias Erb (merb@ice.mpg.de), or the supervisors in Neuchâtel, Ted Turlings (ted.turlings@unine.ch) and Gaetan Glauser (gaetan.glauser@unine.ch).

HELD Matthias <matthias.held@unine.ch>

UOsnabruck ResAssoc MolEvol

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

Research Associate (Wissenschaftlicher Mitarbeiter/in) (E 13 TV-L) in the field of Molecular Evolutionary Biology

The department is seeking highly motivated candidates with experience and research interests in the area of evolutionary biology. The candidate should have a strong background in evolutionary biology (preferentially working with social organisms: vertebrates, invertebrates or 'social microbes') and/or molecular genetics/genomics. The applicant should be familiar with molecular genetic techniques (ideally with Quantitative Realtime PCR and RNAi) and molecular genetic/genomic analyses. He/she should establish externally funded projects, supervise students, contribute to the teaching mission of the department (German language skills are required), and will have the opportunity to obtain the 'Habilitation' (a German qualification supportive in applications for professorships).

The position is available starting January 2012 for a maximum of up to six years. Initial appointment is for three years.

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

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

Applications for this position are required by September 30th 2011 and should be sent electronically to: Prof. Dr. Judith Korb, Behavioral Biology, University of Osnabrück, BarbarasträÙe 11, 49069 Germany; e-mail: Judith.Korb@biologie.uni-osnabrueck.de

For further information see: <http://www.biologie.uni-osnabrueck.de/Fachbereich/?x=ae,eq;en>; contact: Prof. Dr. Judith Korb, Behavioral Biology, e-mail: Judith.Korb@biologie.uni-osnabrueck.de or: Nathalie.Crombee@biologie.uni-osnabrueck.de

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

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

http://www.biologie.uni-osnabrueck.de/-Verhaltensbiologie/Korb/index_en.html "Korb, Judith" <Judith.Korb@Biologie.Uni-Osnabrueck.DE>

UOxford AvianBehaviourEvol

Postdoctoral Research Assistant - Genetics of Social Behaviour in Birds Department of Zoology, South Parks Road, Oxford Grade 7: £29,099 - £35,788 p.a. A postdoctoral position is available, for three years, from 1 November 2011, to study the quantitative and molecular genetic basis and consequences of variation in social behaviour in wild birds. The post is funded as part of an ERC Advanced Investigator grant from 2010-2015 of euro 2.5M over five years to Professor Ben Sheldon.

The post will be based in the Edward Grey Institute, Department of Zoology, University of Oxford. The postholder will use extensive data sets involving detailed pedigree and phenotypic information, supplemented by high-density SNP-typing of a large sample of individuals, to study the genetic causes of social behaviour, the genetic effects of social behaviour, and links between genetic and social structure. A particular focus of the work will be on testing for indirect genetic effects due to social behaviour, and QTLs for social behaviour. This is an exceptional opportunity

to participate in the development of a major research project, for which extensive pilot data are already available, and funding is guaranteed at a very high level.

The post is based in a dynamic research-active institute, of circa 55 people, fully integrated within the Department of Zoology. Further details about the institute are available from the Department of Zoology website.

Informal enquiries (with CV) to Professor Ben Sheldon ben.sheldon@zoo.ox.ac.uk or Dr Camilla Hinde camilla.hinde@zoo.ox.ac.uk. Further particulars of the post can be found at <https://www.recruit.ox.ac.uk/> under 'zoology'

Only applications received before midday on 5 September 2011 can be considered. Interviews will be held on 12 September. You will be required to upload a supporting statement and CV.

camillaoxford@gmail.com

UOxford EvolutionaryBiology

Postdoctoral Position in Evolutionary Biology available at the University of Oxford

A 3-year postdoctoral position in theoretical evolutionary biology is available at the Department of Zoology, University of Oxford.

The position is part of a FP7-funded Large Scale Collaborative Project on developmental plasticity and ageing, with a particular focus on the role of epigenetic mechanisms. The researcher will develop new theory targeting the relationships between developmental plasticity and evolution.

Three areas are of particular interest: (i) the evolution of developmental switches' and its implications for early environmental effects on long-term performance, including ageing; (ii) evolutionary ecology of trans-generational plasticity (maternal effects); and (iii) the role of epigenetic mechanisms in mediating within-and trans-generational plasticity. The research programme allows substantial flexibility and both theory aiming towards general frameworks and more mechanistic models targeting specific empirical systems are encouraged.

A PhD in evolutionary biology, ecology, or mathematical biology is required. Applicants should have a background in evolutionary theory and show strong mathematical and computing skills and an enthusiasm for ba-

sic research. Individuals with experience of research on life history theory, developmental/phenotypic plasticity or evolution & development are especially encouraged to apply.

The successful candidate will work independently and in collaboration with Dr Tobias Uller at the University of Oxford (<http://www.zoo.ox.ac.uk/egi/people/faculty/tobias.uller.htm>), and will be part of an interdisciplinary consortium (Integrated Research on Developmental Determinants of Aging and Longevity) involving 16 leading research groups around Europe with expertise in a broad range of topics, including evolutionary, developmental and molecular biology, epigenetics, bioinformatics, and medicine.

The post is based in a dynamic and expanding research-active research environment. The Edward Grey Institute (EGI), of c. 50 people, is fully integrated within the Department of Zoology, University of Oxford. The EGI is world leading in the study of causes and consequences of phenotypic variation in natural populations, with many active ongoing research programs (further details at <http://www.zoo.ox.ac.uk/egi/>).

The application deadline is September 12. The anticipated start date is January 1 2012 or as soon as possible.

Applications should include CV, full list of publications, cover letter and email addresses of two referees. In the cover letter, applicants should describe their theoretical background and experience with mathematical modeling and evolutionary theory explicitly.

Further details on the terms and conditions and how to apply can be found here: https://www.recruit.ox.ac.uk/pls/hrsliverecruit/erq_jobspec_version_4.display_form Please contact Tobias Uller (tobias.uller@zoo.ox.ac.uk) for further information or informal discussions about the post.

Dr Tobias Uller Edward Grey Institute, Department of Zoology University of Oxford, OX1 3PS Tel: (+44) 01865 281194

tobias.uller@zoo.ox.ac.uk

UPittsburgh PlantPathogenInteractions

Two-Year Postdoctoral Position in Plant-Pathogen Interactions, University of Pittsburgh

The Traw Lab seeks a Postdoctoral Fellow in Plant Biology to join our ongoing effort to use genome-wide association mapping to identify novel resistance genes in *Arabidopsis*, beginning this fall, 2011. Our laboratory is pursuing candidate genes that contribute to plant defense against pathogenic bacteria and herbivores, using molecular and bioinformatic approaches. We have excellent plant growth facilities, a well-equipped laboratory for molecular biology, and a strong local community of plant and microbial biologists. Applicants for this position must have a Ph.D. in plant biology or a related field. Preference for this position will be given to individuals with a strong understanding of plant - pathogen interactions and demonstrated success in preparation of scientific research papers in plant biology, microbial ecology or related fields. In addition, the applicant should be highly self-motivated and passionate about plant biology. This position provides a competitive salary and benefits package dependent on the candidate's background and experience. The initial appointment will be for one year and is renewable for an additional year and a half, contingent on performance. Start date is ASAP. Review of applications will begin immediately and continue until the position is filled. Additional information about the Traw Lab is available at our website www.pitt.edu/~mbtraw. Applications should include a cover letter, curriculum vitae, and a letter of recommendation from your current advisor. Inquiries, applications and letters should be sent to Dr. Brian Traw mbtraw@pitt.edu. The University of Pittsburgh is an Affirmative Action, Equal Opportunity Employer. Women and members of minority groups under-represented in academia are especially encouraged to apply.

Brian Traw University of Pittsburgh Department of Biological Sciences 4249 Fifth Avenue Pittsburgh, PA USA

Phone: (412) 383-6909 Fax: (412) 624-4759 E-mail: mbtraw@pitt.edu

Brian Traw <mbtraw@pitt.edu>

UTexas Bioinformatics

Postdoctoral Fellow Position in Bioinformatics and Computational Genomics

The Department of Bioinformatics & Computational Biology (DBCBC) at the University of Texas MD Anderson Cancer Center has one postdoctoral position avail-

able for bioinformatics and cancer genomics research.

MD Anderson Cancer Center is one of the world's foremost institutions for cancer research. For eight of the past ten years including 2011, it has ranked as No. 1 "America's Best Hospitals" for cancer by U.S. News & World Report. The institution also enjoys a great reputation for promoting career development for postdoctoral fellows. For example, in 2007 MD Anderson ranked No. 1 as the "Best Places to Work" for postdocs by the Scientist.

DBCBC currently includes 14 faculty members. MD Anderson is strongly committed to growth of DBCBC in view of the increasingly important roles of computational and analytic approaches in biomedical science. Recently our department has experienced a rapid expansion and built a world-class interdisciplinary team. Areas of active research focus currently include bioinformatics, biostatistics, systems biology, high-performance computing, next-generation sequencing, knowledge engineering, and mathematical modeling. Moreover, we have been designated as a Genome Data Analysis Center for the Cancer Genome Atlas (<http://cancergenome.nih.gov>), a flagship project of NIH. We also have direct links with Rice University and the Baylor Human Genome Sequencing Center, one of the largest sequencing facilities in the United States. Together, we provide an extremely stimulating environment for high-impact, creative bioinformatic research.

The postdoctoral position is available in Dr. Han Liang's group:

We are interested in analysis and biological interpretation of large-scale genomic data, including next-generation sequencing data. We are also interested in modeling the evolutionary process of tumor development. An ideal candidate should have a solid biological background (cancer-related research experience is a plus but not necessary); have a strong quantitative background with experience in computational/comparative genomics; have good programming skills (e.g., C++ and Perl); and have at least two first-author (including co-first) papers in decent bioinformatics or biological journals.

For qualified candidates, we offer highly competitive salary (\$65,000 USD) and generous benefits, especially given the relatively low cost of living in Houston. Houston is one of the world's most interesting and diverse cities, featuring great neighborhoods, excellent private and public schools, superb museums, highly acclaimed opera, symphony, ballet, and theater, first-rate international cuisine, and year-round recreational and entertainment opportunities.

Review of applicants will begin immediately, and consideration of applications will continue until the positions are filled. Please send an introductory email with CV to hliang1@mdanderson.org

Han Liang, Ph.D. Assistant Professor Department of Bioinformatics and Computational Biology Division of Quantitative Sciences The University of Texas MD Anderson Cancer Center E-mail: hliang1@mdanderson.org Telephone: 1-713-745-9815 Fax: 1-713-563-4242 Website: <http://odin.mdacc.tmc.edu/~hliang1/> HLiang1@mdanderson.org

UToronto GeneticsPlantAdaptation

Post-Doctoral Positions in Ecological and Evolutionary Genomics

Post-doctoral positions are available in the Stinchcombe Laboratory, in the Department of Ecology and Evolutionary Biology at the University of Toronto. Work in my lab is focused on both the ecological causes and the genetic underpinnings of adaptation in plants. We study both model systems (*Arabidopsis thaliana*, *Medicago truncatula*) and non-model species (*M. lupulina* and *Ipomoea hederacea*).

I am interested in recruiting individuals to work on the genetics of adaptation. Projects will involve greenhouse and molecular work, field experiments, and analysis of next-gen sequence and transcriptome data. A strong background in evolutionary or population genetics, experience with basic molecular techniques, and facility with data analysis and/or programming would be valuable. The ideal candidate will have a clear intellectual vision of promising directions and unresolved fundamental questions in ecological and evolutionary genetics.

I will be at this year's ESEB meetings for the next few days if anyone wants to talk about the position.

Interested candidates should contact me by email. Please include a single PDF attachment containing your c.v., a brief description of past research accomplishments and future goals, and the name and e-mail address of 2 potential references. Funding is guaranteed for 1 year, with a second year renewable depending on progress.

Toronto is a vibrant, multicultural city on the shore of Lake Ontario, with rich cultural options in the arts,

music and film, ethnic cuisine, and a high quality of life. The EEB department is home to an interactive, collegial group of ecologists, geneticists, and evolutionary biologists, and currently supports a strong group of Post-Doctoral Fellows with diverse research interests.

–

Sent from an old-fashioned desktop computer.

John Stinchcombe Associate Professor Department of Ecology and Evolutionary Biology University of Toronto, 25 Willcocks St. Toronto, ON Canada M5S 3B2

416-946-5986

<http://labs.eeb.utoronto.ca/stinchcombe/>
john.stinchcombe@utoronto.ca

UTurku Finland 2 MammalPopulations

Two postdoctoral research posts

Project financed by the Academy of Finland during 2011-15: The struggle of herbivores and predators between finding food and eluding enemies

For two years with possible extension up to four years (starting in Oct to Nov 2011) at Dept. Biol., Univ. of Turku, Finland.

Objectives: While animals in the wild cope with the conflict between finding food and eluding predators, interactive impacts of food supply and predators on demography of vertebrate populations have remained largely unstudied. Two two-factor experiments with mammals in North America showed that sole food supplementation (FS) and predator reduction (PR) result in a 2-to-3-fold increase, and both FS and PR resulted in a >10-fold increase in population densities. These studies suggest that food and predation may have interactive effects on reproductive success and population densities of vertebrate animals. This project will thus aim to solve the long-lasting controversy over whether animal populations are mainly limited by bottom-up (food) and/or top-down forces (predation).

Details on the research environment, research projects and their productivity can be found in <http://www.sci.utu.fi/biologia/en/ecology.html>, <http://users.utu.fi/ekorpi/>, <http://www.ncoetundra.utu.fi/>

The postdoctoral researcher will take part in the plan-

ning and execution of the project, in analysing the existing long-term observational and experimental data sets on herbivores and predators, in writing papers, and in supervision of the Ph.D. and M.Sci. students, etc. The salary will be in accordance with the Finnish university norms, approx. 2950-3400 /mo, the exact level depending on competence.

Queries and applications (CV, list of publications, a summary of research interests and motivation for this project) to Erkki Korpimäki, e-mail ekorpi@utu.fi, fax +358-2-3336598.

Deadline for applications is 31 Aug 2011. Address: Section of Ecology, Department of Biology, University of Turku, FIN-20014 Turku, Finland.

elina.koivisto@utu.fi

UWashington Flower EvoDevo

Postdoctoral Position in Evolution of Flower Development

A Postdoctoral Position is available for a project on Functional Evolution of Flower Organ Identity Genes in the basal Eudicot *Thalictrum*: Implications for transitions in breeding and pollination systems±, to study the genetic and developmental basis of flower diversity in the laboratory of Vernica Di Stilio at the University of Washington in Seattle <http://faculty.washington.edu/distilio/>. Research is on the ranunculid *Thalictrum* (Ranunculaceae), using an evolution of development approach towards understanding morphological diversification of flowers. Current focus is on transcription factors as key regulators of development, in particular the ABC model genes belonging to the MADS box family that regulate flower organ identity.

Requirements for Post-doc: PhD in Plant Biology, Molecular, cellular, developmental biology or related field.

Skills: excellent molecular biology and microscopy skills. Ability to perform one or more of the following techniques: in situ hybridizations, gene silencing assays (VIGS), transgenic techniques, protein-protein interaction and DNA binding assays and molecular evolution analyses. High motivation to pursue an academic career and willingness to supervise undergraduates.

Funding is available for 2 years. Review of applications

will begin Sept 1st, start date is flexible, as early as October 1st 2011. Please e-mail CV, research statement and 3 reference contacts to distilio@u.washington.edu.

Vernica S. Di Stilio, PhD Assistant Professor Department of Biology University of Washington Hitchcock Hall 506 Box 351800 Seattle WA 98195-1800 (206) 616-5567 off (206) 685-4755 lab FAX (206) 616-2011 <http://faculty.washington.edu/distilio/> Veronica S Di Stilio <distilio@u.washington.edu>

UWisconsin Milwaukee FrogEvolution

Post-doctoral position - University of Wisconsin-Milwaukee (UWM).

A position as Post-doctoral Research Associate is available in the lab of Gerlinde Hoebel to study the evolution of multi-modal communication in frogs, with special focus on acoustic, visual, and water surface wave signals. The postdoctoral scientist will collaborate on establishing methods/equipment for studying visual and surface wave modalities, and lead a team of undergraduate students to perform behavioral experiments at UWM and the UWM Field Station. The ideal candidate will have field experience with frogs, and experience conducting behavioral experiments, in particular with acoustic, visual or surface wave recording and playback techniques.

This is a full-time position with support for one year, and possibility for extension pending proposal success. UWM is an Equal Opportunity /Affirmative Action Employer.

Screening of candidates will begin September 1, 2011, and continue until the position is filled. Appointment can begin as soon as the position is filled.

To apply, please send the following documents by email to Gerlinde Hoebel (hoebel@uwm.edu): (1) CV (2) statement of research interests/experience, incl. how previous experience relates to the position description (3) name and contact information of three references.

For further information about UWM, the Dept. of Biological Sciences, and the Anuran Behavioral Ecology Lab, please visit: <https://pantherfile.uwm.edu/hoebel/www/> <http://www4.uwm.edu/letsci/biologicalsciences/> <http://www4.uwm.edu/> Gerlinde Hoebel <hoebel@uwm.edu>

UWisconsin Milwaukee KelpPopGen

Post-Doctoral Research Associate

The Department of Biological Sciences at the University of Wisconsin-Milwaukee (UWM) is currently accepting application submissions for a postdoctoral appointment in Dr. Filipe Alberto's laboratory, studying kelp population genetics. For more information about the lab see: <http://alberto-lab.blogspot.com/>. UWM has an active group of researchers studying evolution-ary genetics and behavior:

<https://pantherfile.uwm.edu/rafa/www/BME%20site/BME%20home.htm>. There is the possibility to work with UWM graduate students and undergraduates from the UBM Aquatic Biology and Mathematics program (<https://pantherfile.uwm.edu/iglauko/www/UBM/why.html>).

Qualified candidates will have a knowledge and research experience in the analysis of microsatellite data sets. The position is intended to work with different kelp species, including the Californian giant kelp /*Macrocystis pyrifera*, *Pterygophora californica* /and/*Laminaria ochroleuca*. /There is a wide range of questions that pertain to kelp Evolutionary Ecology, from unraveling the details of kelp life history from its pattern of fine-scale spatial genetic structure, to the biogeography of kelp across distribution ranges. New collections of specimens in Southern California (collaboration with the Santa Barbara coastal LTER <http://sbc.lternet.edu/> and Center for Marine Sciences in Portugal <http://www.ccmr.ualg.pt/maree/> may be designed, in collaboration with the successful candidate, but the focus will be in the analysis of existing data-sets.

The successful candidate should have a Ph.D. in population genetics, evolution, bioinformatics, computation biology or related field. Familiarity with population genetics software is essential, as well as high level of motivation to produce and write her or his results. Computer programming skills are important merits.

Informal inquiries about the project are encouraged. Please apply by sending a pdf document including 1) CV, 2) a declaration of research interests, 3) previous experience and fit for the position and 4) the email address and telephone number of potential contacts for reference letters.

Applications should be emailed to Dr. Filipe Al-

berto, albertof@uwm.edu. Annual salary starts at 37,000/year. Benefits information can be found at: <http://www.wisconsin.edu/hr/benefits/gradben.pdf>. Review of applications starts in September 2011, and will continue until position is filled.

UWM is an AA/EEO employer.

Filipe Alberto Assistant Professor Dept. of Biological Sciences University of Wisconsin - Milwaukee Lapham Hall

P.O. Box 413

Milwaukee, WI 53201-0413 Email: albertof@uwm.edu
Phone: 414-229-6343 / Outside US: (+351 962314856)

Thanks a lot, Cheers, Filipe

Filipe Alberto Assistant Professor

Dept. of Biological Sciences University of Wisconsin - Milwaukee 3209 N. Maryland Ave. Milwaukee, WI 53211

Email: albertof@uwm.edu Tel: 414-229-6343

Filipe Alberto <albertof@uwm.edu>

UZurich PlantEvolution

University of Zurich plant ecology and evolution

A three year PostDoc position funded by the European Research Council (ERC) is available from January 2012 at the Institute of Systematic Botany, University of Zürich, to study the ecological and genetic bases of floral adaptation in plants. A special focus of the project will be on floral signals, i.e. floral scent and color. One the one hand, traits underlying specific pollinator attraction will be studied in natural populations, on the other hand, the evolution of floral adaptations in generalised pollination system will be investigated by conducting selection experiments using pollinators and herbivores. You should have a PhD degree in any field of (molecular) biology/ecology and a thorough interest in evolutionary biology. A good knowledge of molecular techniques as well as enthusiasm for experimental work with plants and insects is required. Willingness to co-supervise a PhD student working in the same topical framework is also expected. The successful candidate will work in a very well equipped institute and an exciting research environment. The Institute of Systematic Botany at the University of Zürich consists of 3 professors and 6 academic staff, as well as a large group of

PostDocs, PhDs, and Master students. The institute is located in the pretty botanical gardens and houses modern molecular and chemical ecology labs, including greenhouses and climate chambers for plant cultivation. The University of Zürich has a very broad coverage of organismal and molecular biology, and several research groups work on evolutionary topics (www.lifescience-zurich.ch). The city also offers excellent quality of life through cultural programs and infrastructure, as well as an attractive surrounding (lake, alps).

If you are interested in the job, please send (preferentially by e-mail) a letter describing your motivation, C.V., copy of degrees, publications (manuscripts), and e-mail addresses of two academic referees, by 31st of September 2011. If you have further questions, don't hesitate to contact me.

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

florian.schiestl@systbot.uzh.ch

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

WorkshopsCourses

Berne Switzerland Coalescent Sep5-8	74	Smithsonian WildlifeConservation May19-25	78
Chile ConservationGenetics Jan15-29	75	UCalifornia Berkeley BayesianPhylo Aug15-19 2 ...	79
Knoxville ModelingSocialComplexity Feb6-8	75	UmeaU EvolutionaryModeling Oct17-22	79
Leige StatGenetics Sep5-9 ScheduleChange	76	UmeaU EvolutionaryModeling Oct17-22 2	80
MountDesertIsland EnvGenomics Aug20-27 2	76		
NewOrleans PhylogeneticInformation Oct17-21	77		

Berne Switzerland Coalescent Sep5-8

COURSE ANNOUNCEMENT

We are pleased to announce the following population genetics course:

INTRODUCTION TO COALESCENT THEORY

to be held in Berne, Switzerland, on September 5-8 2011

COURSE ORGANIZER AND INSTRUCTORS Prof. Laurent Excoffier (University of Berne, Switzerland) Dr. Matthieu Foll (University of Bern, Switzerland) Prof. John Novembre (University of California) Dr. Michael Blum (University of Grenoble, France)

COURSE CONTENT The course will introduce students to basic concepts in Coalescent Theory and its application to parameter inferences (ABC and likeli-

hood based methods), with a mixture of theoretical presentations, computational exercises and demonstrations. More detailed course content can be seen on <http://www.unil.ch/pg/page81758.en.html> Course will be taught in English.

PREREQUISITES Basic knowledge in statistics and programming (R) is a bonus but not absolutely compulsory. Students are requested to bring their own laptop to perform computations and exercises.

COURSE LOCATION Course will be given at the Institute of Ecology and Evolution, Baltzerstrasse 6, 3012 Berne, Switzerland. First lecture will begin on Monday September 5 at 9 am.

REGISTRATION Registration is open on a first-come, first served basis, and the course is limited to 28 people. Deadline for applications is August 15, 2011, and confirmations will be sent shortly after. Note that travel, lodging and meals have to be organized by the participants themselves, who also need to bring their own laptop. Members of the Swiss NSF Population Genomics ProDoc program and members of the CUSO Doctoral

program in Ecology and Evolution can ask for reimbursement of their expenses for travel, accommodation, and meals.

For more information and online registration: http://www.unil.ch/pg/page81758_en.html For further questions send an email to Ute.Friedrich@unil.ch

This is a joint course of the Population Genomics Program (www.unil.ch/pg) and the Doctoral Program in Ecology and Evolution (biologie.cuso.ch/ecologie-evolution/welcome/).

Ute Friedrich Coordinator Population Genomics Program Le Biophore, UNIL-Sorge University of Lausanne CH-1015 Lausanne Switzerland Phone: +41 (0)21 692 42 07 Fax : +41 21 692 41 65 Email:Ute.Friedrich@unil.ch

Doctoral Program Population Genomics www.unil.ch/pg Ute.Friedrich@unil.ch

Chile Conservation Genetics Jan15-29

The Conservation Genetics Network (ReGeneC) announces the VIII Latin American Conservation Genetics Course.

The Conservation Genetics Network (ReGeneC) gathers together scientists with experience in different areas of conservation genetics who work in the region. The VIII Latin American Conservation Genetics Workshop will be held between January 15-29 2012 in Chillan, Chile. This postgraduate course is given in Spanish and seeks to train and integrate human resources, facilitating the conservation and the appropriate use of the regional biological richness. Information regarding the programme, participating lecturers and pre-registration can be found at the web site: <http://regenec.ula.ve/taller/ene2012/> La Red de Genética para la Conservación (ReGeneC) anuncia el VIII Taller Latinoamericano de Genética para la Conservación.

La Red de Genética para la Conservación (ReGeneC) reúne a científicos con experticias en distintas áreas de esta temática que trabajan en la región. El VIII Taller Latinoamericano de Genética para la Conservación se desarrollará entre el 15 y el 29 de enero de 2012, en Chillan, Chile. El curso es dictado en español, tiene nivel de postgrado y busca, entre otros aspectos, formar y favorecer la integración de recursos humanos para facilitar la conservación y el uso ade-

cuado de la riqueza biológica de esta región. Informaciones acerca del programa, profesores participantes y modalidades de pre-inscripción se encuentran en el sitio web del Taller: <http://regenec.ula.ve/taller/ene2012/>

Dr. Elie POULIN Laboratorio de Ecología Molecular (LEM) Instituto de Ecología y Biodiversidad (IEB) Departamento de Ciencias Ecológicas Facultad de Ciencias, Universidad de Chile Las Palmeras 3425, Casilla 653 CP 780-0024, Ñuñoa, Santiago, Chile

<http://lem.dm.cl/> <http://www.ieb-chile.cl/> Phone: (56)-2-9787298 Fax: (56)-2-2727363 E-mail: epoulin@uchile.cl

Elie Poulin <epoulin@uchile.cl>

Knoxville Modeling Social Complexity Feb6-8

NIMBioS-NESCent Investigative Workshop

Topic: Towards a formal theory for the evolution of human social complexity

Web: http://www.nimbios.org/workshops/-WS_social_complexity Meeting dates: February 6-8, 2012, Knoxville

Objectives. The aim of this workshop, jointly sponsored by NIMBioS and NESCent < <http://www.nescent.org> >, is to bring together a diverse group of modelers with anthropologists, archaeologists, and other social scientists to (i) synthesize the state of knowledge in formal models of the evolution of social complexity, (ii) identify unresolved issues, and (iii) set an agenda for future collaborative work. The workshop will be organized around the following general themes: What theories and data are available? What are the empirical patterns that cannot be explained by the existing theories and data? How can we adapt existing models to make full use of the available data? What kinds of data are needed to better inform the models? What new modeling techniques and methods need to be developed?*

*Application deadline: September 30, 2011

Participation is limited; those selected to attend will be notified within two weeks of the application deadline.

Sergey Gavrilets <sergey@nimbios.org>

Leige StatGenetics Sep5-9 ScheduleChange

There have been some schedule changes to the Liege version of the Summer Institute in Statistical Genetics next month:

8:30 am Monday September 5 until noon September 7: Population Genetic Data Analysis (Jerome Goudet and Bruce Weir) Quantitative Genetics (Bill Muir and Bruce Walsh) Gene Expression Data (Greg Gibson and Alison Motsinger-Reif)

1:30 pm Wednesday September 7 until 5 pm Friday September 9: QTL Mapping (Rebecca Doerge and Zhao-Bang Zeng) Plant and Animal Association Mapping (Peter Bradbury and Michel Georges) DNA Evidence (Roberto Puch-Solis and Bruce Weir) R/Bioconductor Workshop (Thomas Lumley and Ken Rice)

Canceled: Human Association Mapping, Graphical Models, Coalescent Theory.

Details are available at <http://eisg.biostat.washington.edu> or from eisgg@uw.edu

Bruce Weir bsweir@uw.edu

Bruce S. Weir Professor and Chair, Department of Biostatistics University of Washington Seattle, WA 98195-7232 Phone (206) 221-7947. Fax (206) 543-3286.

Bruce Weir <bsweir@u.washington.edu>

MountDesertIsland EnvGenomics Aug20-27 2

Dear colleagues,

There may be a couple of remaining open positions for participants at this year's Annual Summer Course in Environmental Genomics at the Mount Desert Island Biological Lab. If you or people in your group are interested, please visit the URL below to register, or send email to jcolbour@indiana.edu.

Date: August 20 to August 27, 2011. Number of participants: Restricted to 25.

http://www.mdibl.org/courses/-Environmental_Genomics/199/

This is a hands-on technical course to guide research into population-level (high-throughput sampling) functional genomics, using our community supported *Daphnia* genomics tools for training. This year's guest lecturers and discussion leaders include Prof. Loretta Johnson (Kansas State Univ.), Prof. W. Kelley Thomas (Univ. of New Hampshire), Prof. Gary Churchill (Jackson Laboratory), Dr. Andrew Whitehead (Louisiana State Univ.), Dr. Keith Shockley (NIEHS), and Dr. John Novembre (UCLA).

The faculty at MDIBL is pleased to again offer a training course in Environmental Genomics, aiming to better understand technologies and approaches used to discover how gene function is influenced by environmental conditions while accounting for variation that exists within and among natural populations. This course is built on the paradigm that the research field will most effectively grow by properly designing large-scale experiments enabled by drastically increased sample-throughput and lower costs. Most importantly, the challenges of manipulating and analyzing population-level genomics data must be addressed.

This course is designed to train the next-generation of environmental scientists, which last year included five university professors, seven postdoctoral researchers, eight doctoral students and a government scientist, representing institutions from five countries and eight US states. All but two responded in the departure survey that the course curriculum, choice of technologies, and effectiveness provided sufficient training to either begin or enlarge an environmental genomics project in their own laboratories. All reported that they would recommend this course to a colleague.

This course trains researchers to design studies, and to collect and analyze state-of-the-art gene expression data. *Daphnia* is used for training because of its growing use as a model system for environmental genomics and for improving environmental health protection (see URL below), yet the skills learned during the course will be applicable to all study systems with mature genomics resources.

Nature News <http://www.nature.com/news/2011/110203/full/news.2011.71.html> Participants will also obtain hands-on training on the latest automation protocols for higher-throughput processing of next-generation sequencing samples, and will learn computational methods to manage and analyze genomics-scale data sets.

Ultimately, participants will be better positioned to incorporate these technologies into their own research laboratories, while better understanding how functional

genomics and automation can be applied to ecology, evolution and toxicology.

Support for this training course is provided by The Indiana University Center for Genomics and Bioinformatics, Beckman Coulter Inc., Roche NimbleGen Inc., and Life Technologies Inc.

Please download the poster announcement at: https://wiki.cgb.indiana.edu/download/attachments/-22446089/MDIBL_Envgen_flyer_y2.pdf John Colbourne <jcolbour@cgb.indiana.edu>

NewOrleans PhylogeneticInformation Oct17-21

TDWG MIAPA Workshop Call For Participation: Steps towards a Minimum Information About a Phylogenetic Analysis (MIAPA) Standard

Synopsis

Many phylogenetic analysis results are published in ways that present serious barriers to their reuse in numerous research applications that would stand to benefit from them. While some of these barriers are well understood, such as issues with adherence to standard exchange formats, those centering on the associated metadata necessary for researchers to evaluate or reuse a published phylogeny have only recently begun to be articulated. One of the critical next steps towards formalizing these metadata requirements as a minimum reporting standard is to convene meetings of key stakeholder communities with the goal to identify information attributes necessary and desirable for facilitating reuse, and to build consensus on their priority. To this end, we are holding a workshop at the 2011 Biodiversity Information Standards (TDWG) Conference to determine how a future reporting standard for phylogenetic analyses can best serve biodiversity science and related research applications. We invite all interested colleagues to participate.

Background

The workshop of the Biodiversity Information Standards (TDWG) Phylogenetics Standards Interest Group held at the 2010 TDWG conference included a project focused on how to publish re-usable trees that can be linked into an emerging global web of data. Through follow-up work, this led to the following tangible results:

An online draft report of the 2010 TDWG workshop [1], and a corresponding manuscript on best practices for publishing phylogenetic trees (Stoltzfus et al. in preparation); An 2011 iEvoBio presentation on “Publishing re-usable phylogenetic trees, in theory and in practice” [2]; A lighting talk presentation and Birds-of-a-Feather gathering at 2011 iEvoBio, and A survey group that explored barriers to re-use and developed plans for a survey

These activities have considerably clarified our understanding of the theory and practice of publishing re-usable phylogenetic trees: how many phylogenies are published each year, the (low) frequency of archiving, what archives and tools are available, what policies are in force, etc. We have identified a number of barriers to re-use involving such aspects as technology, standards, culture, and access. Many of these barriers can be interpreted as a consequence of the lack of a community-agreed standard for what constitutes a well documented phylogenetic record. In the absence of such a standard, trees are often archived as image files rather than in appropriate data exchange formats, and lack important accompanying information (metadata), such as externally meaningful identifiers, that would be needed to make them useful to others. The idea of a Minimum Information About a Phylogenetic Analysis (MIAPA) standard has been suggested [3], but so far there has not been a deliberate process to develop and disseminate a community standard. Meanwhile, a number of systematics and evolution journals have begun to require archiving of the data underlying published research findings [4]. The emerging cultural shift in data archiving and sharing promoted by this policy change offers a unique window of opportunity to move ahead with the development and actual specification of a MIAPA standard. Similar to other minimum reporting standards [5], the primary focus of a future MIAPA standard would be on defining a ‘checklist’ of metadata information attributes that, at a minimum, needs to accompany an archived phylogenetic analysis, and to which standards values for these attributes would need to adhere. The key step in developing community consensus on these elements of the standard is to convene a series of meetings that collectively involve participants from all major groups of stakeholders who would be affected by such a standard, such as users, producers, publishers, or archivists of phylogenetic analyses. To aid this process, the Phylogenetics Standards Interest Group is holding a workshop at the 2011 TDWG conference, with the goal to obtain consensus requirements and priorities for a MIAPA checklist for the purposes of biodiversity science, taxonomy, museum collections, and related research applications.

Goals and deliverables

The main goal of the workshop is to develop a shared understanding of the role that a MIAPA standard could play in facilitating re-use of phylogenetic analyses for the biodiversity science and related communities, and what the standard would need to specify in order to best fill that role. Possible deliverables include A draft set of information attributes that should or could be included in a provisional MIAPA checklist, with a level of consensus for each of them. A database with use-cases based on exemplifying publications, that report phylogenies to elucidate a broad spectrum of questions relating to biodiversity science.

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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>

Smithsonian Wildlife Conservation May 19-25

Graduate and Professional Course Non-Invasive Genetic Techniques in Wildlife Conservation May 19-25, 2012 Smithsonian-Mason Global Conservation Studies Program At the Smithsonian Conservation Biology Institute, Front Royal, VA, USA Visit <http://conservationtraining.si.edu> or contact SCBI-training@si.edu for more information.

This course is an introduction for graduate students and professionals to the applications, benefits, and drawbacks of non-invasive genetic techniques to wildlife conservation. The course will concentrate on the use of non-invasive techniques to answer questions in animal behavior, population biology, and population management, with a particular focus on the conservation of mammalian populations. Participants gain hands-on experience relating to all stages of a research project utilizing modern non-invasive methods by working with expert researchers through a combination of field, laboratory and computer-based modules.

Throughout the course participants work through directed research projects, progressing from study design through field data collection, sampling protocols, and DNA extraction and amplification, to analysis of microsatellite and sequence data using the most effective and accessible software packages. The course focuses

on relatedness, population size estimation and population dynamics; additional lectures address genotype reliability, research applications for ancient DNA, and applications of next-generation pyrosequencing.

Many of these groundbreaking non-invasive genetic techniques were initially developed at the Smithsonian's National Zoo and its Center for Conservation and Evolutionary Genetics (CCEG). Course instructors include scientists from CCEG (Drs. Jesus Maldonado and Rob Fleischer) and George Mason University (Dr. Christine Bozarth) and several expert visiting instructors including Drs. Mike Schwartz, Elizabeth Archie, and Lori Egert. While most instruction takes place in Front Royal, the course also includes laboratory work at the National Zoo's new state-of-the-art genetics lab in Washington, DC.

The course fee is \$1,500, which includes instruction and course materials as well as all meals, lodging, and transport to/from Washington-Dulles International Airport (IAD). All other travel costs and incidental expenses are the participant's responsibility. Participants earn Continuing Education Units; graduate course credit (1) is available for qualified applicants through George Mason University (total fee: \$1600 in-state (VA), \$1850 out-of-state). Participants should have previously completed a college-level genetics and basic ecology/evolution course. Applications due by March 5th, 2012.

Additional Upcoming Courses:

For more information on each of these, see: <http://conservationtraining.si.edu> * Conservation Conflict Resolution (January 16-20, 2012)

* Spatial Ecology, Geospatial Analysis, & Remote Sensing for Conservation (February 6-17, 2012)

* Statistics for Ecology and Conservation Biology (March 5-16, 2012)

* Species Monitoring & Conservation: Amphibians (March 26- April 6, 2012)

* Species Monitoring & Conservation: Terrestrial Mammals (April 16-27, 2012)

* Adaptive Management for Conservation Success (June 11-22, 2012) * Effective Conservation Leadership (2012 dates to be determined)

For information on the Applied Conservation Science Graduate Certificate see: <http://mccs.gmu.edu/graduate/certificate> For information on the Applied Conservation Science Professional Certificate see: www.ocpe.gmu.edu/programs/green-applied-conservation.html Joe Kolowski, Ph.D. | Graduate and Professional Training Manager Smithsonian Conservation Biology Institute Center for

Conservation Education and Sustainability National Zoological Park Mail: P.O. Box 37012, MRC 0705, Washington, DC 20013-7012 Location: 1100 Jefferson Drive., SW, Washington, DC 20013 T 202-633-4787| F 202-786-2557 | Email kolowskij@si.edu

“Kolowski, Joseph” <kolowskij@si.edu>

UCalifornia Berkeley BayesianPhylo Aug15-19 2

SYMPOSIUM / WORKSHOP on Bayesian inference of phylogeny

There will be a mini-symposium on Bayesian inference of phylogeny to be held on the UC Berkeley campus from August 15th to 19th. There will be two days of talks (August 15th and 16th) on various aspects of Bayesian inference as it applies to the phylogeny problem. The following three days will be a workshop for people interested in developing for the RevBayes program. RevBayes implements an R-like language for specifying complex evolutionary models and (attempts) to perform solid statistical estimation of a model's parameters.

Where: UC Berkeley When: August 15 - 16 (talks), August 17 - 19 (workshop on RevBayes for interested developers) Details: <http://cteg.berkeley.edu/events/-201108Symposium.html> Speakers include: Michael Jordan (UC Berkeley), Ian Holmes (UC Berkeley), Jeff Thorne (NCSU), Fredrik Ronquist (Swedish Natural History Museum), Jeet Sukumaran (KU), Brian Moore (UC Davis), Bastien Boussau (UC Berkeley), Sebastian Hoehna (Stockholm University), Tracy Heath (UC Berkeley), and John Huelsenbeck (UC Berkeley).

John Huelsenbeck University of California, Berkeley Department of Integrative Biology 3060 VLSB # 3140 Berkeley, CA 94720-3140

Phone: (510) 502-5887

johnh@berkeley.edu

UmeaU EvolutionaryModeling Oct17-22

Hi all,

There will be a short course on eco-evolutionary modeling (Adaptive Dynamics) at UmeÅ University this fall. This course is open to anyone who is interested in ecological/evolutionary modeling, in particular Adaptive Dynamics. There is no course fee, but participants will need to cover the travel and accommodation costs. Limited financial support may be available.

The application deadline is September 30, 2011.

Regards,

Etsuko Nonaka

Etsuko Nonaka IceLab & Department of Ecology and Environmental Science, UmeÅ University, UmeÅ, Sweden Naturvetarhuset, 3rd floor, UmeÅ University, 901 87 UmeÅ Phone: +46907865540, email:etsuko.nonaka@gmail.com, etsuko.nonaka@emg.umu.se

A SHORT COURSE on Adaptive Dynamics by Prof. Stefan Geritz

October 17-22, 2011

UmeÅ University, UmeÅ, Sweden

Integrated Science Lab (IceLab) is organizing a short-course on Adaptive Dynamics (AD) to be held at UmeÅ University from October 17th to 22th, 2011. We will have Prof. Stefan Geritz from the University of Helsinki, one of the leading researchers on the subject. The aim of the course is to introduce participants to the theory and method of Adaptive Dynamics and provide training for understanding (and being able to reproduce) results of published AD applications and for actually applying AD to concrete models. The course will consist of morning lectures and computer lab exercises in the afternoons using Mathematica.

The one week of lectures (2 ECTS) will be followed by (optional) individual projects (1 ECTS). Details to be announced, but projects from his past course can be viewed here (<http://mathstat.helsinki.fi/~kisdi/AD-Vienna/>). Dr. Åke Brännstrom will supervise the projects and we will invite Prof. Geritz back to UmeÅ for a day to discuss the projects (the date will be determined soon). Also on this website you can find a link to the list of AD literature compiled by Prof. Geritz and his collaborators (<http://mathstat.helsinki.fi/~kisdi/-addyn.htm>).

The course is open to graduate students (PhD, Masterås) and exceptional undergraduates who are interested in modeling in ecology and evolution. Postdocs and other scientists interested in the subject are also welcome to apply. There is no registration fee, and par-

participants will need to cover travel expenses to UmeÅ (transportation and accommodation). Limited financial support for accommodations may be available, and if it is needed, please indicate it on the application.

Application form can be found here: <http://www.kbc.umu.se/researchschool/courses/310-adaptive-dynamics.html>

What is Adaptive Dynamics? Adaptive dynamics is a mathematical theory that explicitly links population dynamics to long-term evolution driven by mutation and natural selection. It provides methods of model formulation, methods of model analysis and mathematical theorems that relate phenomena on an evolutionary time scale to processes and structures defined in ecological and population dynamical terms.

Adaptive dynamics is a new but rapidly developing theory that poses various interesting and mathematically challenging problems. From an applications point of view, a great strength of adaptive dynamics is its capability to model evolution driven by complex ecological interactions. Adaptive dynamics is being applied by a growing number of researchers to a wide variety of concrete ecological-evolutionary problems.

More about AD: <http://mathstat.helsinki.fi/research/biomath/projects/ad.html> <http://wiki.helsinki.fi/display/mathstatKurssit/-Adaptive+dynamics%2C+fall+2010> Etsuko Nonaka <etsuko.nonaka@gmail.com>

UmeaU Evolutionary Modeling Oct17-22 2

Hi all,

There will be a short course on eco-evolutionary modeling (Adaptive Dynamics) at UmeÅ University this fall. This course is open to graduate students, postdocs and other researchers who are interested in ecological/evolutionary modeling, in particular Adaptive Dynamics. There is no course fee, but participants will need to cover the travel and accommodation costs. Limited financial support may be available.

The application deadline is September 30, 2011. If you have any questions, please feel free to email me (etsuko.nonaka@gmail.com, etsuko.nonaka@emg.umu.se)

Regards,

Etsuko Nonaka

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A SHORT COURSE on Adaptive Dynamics by Prof. Stefan Geritz

October 17-22 and (optional) November 4, 2011

UmeÅ University, UmeÅ, Sweden

Integrated Science Lab (IceLab) is organizing a short-course on Adaptive Dynamics (AD) to be held at UmeÅ University from *October 17th to 22th, 2011*. We will have Prof. Stefan Geritz from the University of Helsinki, one of the leading researchers on the subject, as the lecturer. The aim of the course is to introduce participants to the theory and method of Adaptive Dynamics and provide training for understanding (and being able to reproduce) results of published AD applications and for actually applying AD to concrete models. The course will consist of morning lectures and computer lab exercises in the afternoons using Mathematica.

The one week of lectures (2 ECTS) will be followed by (optional) individual projects (1 ECTS). Details to be announced, but projects from his past course can be viewed here (<http://mathstat.helsinki.fi/~kisdi/-AD-Vienna/>). Dr. Åke Brännström will supervise the projects and we will invite Prof. Geritz back to UmeÅ on *November 4th* to discuss the results of the projects. Also on this website you can find a link to the list of AD literature compiled by Prof. Geritz and his collaborators (<http://mathstat.helsinki.fi/~kisdi/-addyn.htm>).

The course is open to graduate students (PhD, Masterås) and exceptional undergraduates who are interested in modeling in ecology and evolution. Postdocs and other scientists interested in the subject are also welcome to apply. There is no registration fee, and participants will need to cover travel expenses to UmeÅ (transportation and accommodation). Limited financial support for accommodations may be available, and if it is needed, please indicate it on the application.

Application form can be found here: <http://www.kbc.umu.se/researchschool/courses/310-adaptive-dynamics.html>

What is Adaptive Dynamics? Adaptive dynamics is a mathematical theory that explicitly links population dynamics to long-term evolution driven by mutation and natural selection. It provides methods of model formulation, methods of model analysis and mathematical theorems

that relate phenomena on an evolutionary time scale to processes and structures defined in ecological and population dynamical terms.

Adaptive dynamics is a new but rapidly developing theory that poses various interesting and mathematically challenging problems. From an applications point of view, a great strength of adaptive dynamics is its capability to model evolution driven by complex ecological

interactions. Adaptive dynamics is being applied by a growing number of researchers to a wide variety of concrete ecological-evolutionary problems.

More about AD: <http://mathstat.helsinki.fi/research/biomath/projects/ad.html> <http://wiki.helsinki.fi/display/mathstatKurssit/-Adaptive+dynamics%2C+fall+2010> Etsuko Nonaka <etsuko.nonaka@gmail.com>

Instructions

Instructions: To be added to the EvolDir mailing list please send an email message to Golding@McMaster.CA. At this time provide a binary six letter code that determines which messages will be mailed to you. These are listed in the same order as presented here — Conferences; Graduate Student Positions; Jobs; Other; Post-doctoral positions; WorkshopsCourses. For example to receive the listings that concern conferences and post-doctoral positions this would be 100010. Messages are categorized on the basis of their subject headings. If this subject heading is not successfully parsed, the message will be sent to me at Golding@McMaster.CA. In addition, if it originates from ‘blackballed’ addresses it will be sent to me at Golding@McMaster.CA. These messages will only be read and dealt with when I have time. The code 000000 has all channels turned off and hence gets only a once monthly notification of the availability of a monthly review pdf file.

To be removed from the EvolDir mailing list please send an email message to Golding@McMaster.CA. Note that ‘on vacation’, etc, style messages are automatically filtered and should not be transmitted to the list (I hope), but should you wish to avoid the e-mail’s your code can be temporarily changed to 000000.

To send messages to the 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 L^AT_EX files, Excel files, etc. . . . plain old ASCII will work great and can be read by everyone. Add a subject header that contains the correct category “Conference:, Graduate position:, Job:, Other:, Postdoc:, Workshop:” and then the message stands a better chance of being correctly parsed. Note that the colon is mandatory.

The message will be stored until the middle of the night (local time). At a predetermined time, the collected messages will be captured and then processed by programs and filters. If the message is caught by one of the filters (e.g. a subject header is not correctly formatted) the message will be sent to me at Golding@McMaster.CA and processed later. In either case, please do not expect an instant response.

Afterword

This program is an attempt to automatically process a broad variety of e-mail messages. Most preformatting is collapsed to save space. At the current time, many features may be incorrectly handled and some email messages may be positively mauled. Although this is being produced by L^AT_EX do not try to embed L^AT_EX or T_EX in your message (or other formats) since my program will strip these from the message.