E v o l D i r

November 1, 2012

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

Foreword

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

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

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

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Conferences

Basel EvolutionMacrostomum Nov16-18

6th International Macrostomum Meeting: Evolution and Development in the free-living flatworm genus Macrostomum

We are happy to announce the "6th International Macrostomum Meeting" here in Basel. The meeting will last from Friday, 16.11.2012 at 18:00 to Sunday, 18.11.2012 at around 16:00.

The "International Macrostomum Meeting" brings together annually the growing community of researchers that are either using flatworms of the genus Macrostomum in their research or who are otherwise interested in research on this emerging model organism. The meeting offers a great opportunity to get an update on what is happening in the Macrostomum Community, and to establish personal contacts if you consider to start working on these lovely worms.

The contributed talks and posters (see the form below) are expected to span ageing, bioadhesion, development, evolution, genomics, transcriptomics, transgenesis, regeneration, neurobiology, ecotoxicology, systematics, phylogenetics, and sexual selection.

As in earlier meetings, we aim at keeping everything as simple and cheap as possible, and we therefore expect everyone to cover their own costs. We will collect a small fee (about 50 Euros) from each participant during the meeting to cover sandwich lunches, refreshments and a joint dinner on the Saturday evening.

For the students we will try to find floor space accommodation in apartments of members of the Schärer Group. Please let us know if you would like to be accommodated in this way (see the form below).

The other people should make a hotel reservation soon, because there are many fairs in Basel, and hotels can fill up quickly. We suggest that you book your room in the Hotel Rochat, where we routinely host guests that visit our department (http://www.hotelrochat.ch), and where we therefore have special rates (CHF 125.- for singles and 180.- for doubles). The Hotel Rochat is just five minutes by foot from the Institute. Please contact them directly to make your arrangements/payments, and please mention the Zoological Institute when you book to get the special rates.

For people coming by plane, please note that Easyjet (http://www.easyjet.com), Swiss (http://www.swiss.com), and AirBerlin (http://-www.airberlin.com/) fly to Basel from many European destinations (e.g. Hamburg, London, Amsterdam, Brussels, Berlin, Madrid, Barcelona etc.).

If you would like to attend the meeting, and maybe present your research, please fill out and return the form

below to lukas.scharer@unibas.ch until 19. October at the latest.

We are looking forward to seeing you soon in Basel,

Lukas Schärer Dita Vizoso Lucas Marie-Orléach Nadja Burri Micha Eichmann Aline Schlatter

First Name: xx Last Name: xx Institution (incl. address and Country): xx

Tel: xx Email: xx

Presentation (delete as appropriate): Oral/Poster/None Title: xx Authors: xx Institutions: xx Abstract (max. 300 words): xx

I am a student (delete as appropriate): Yes/No I want floor accommodation (delete as appropriate): Yes/No

I am looking at these kinds of worms http://-macrostomorpha.info and studying these questions http://evolution.unibas.ch/scharer PD Dr. Lukas Scharer University of Basel Zoological Institute Evolutionary Biology Vesalgasse 1 4051 Basel Switzerland

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

Chicago SMBE Jul7-11

Mark Your Calendars for the 21st Annual Society for Molecular Biology and Evolution Conference, July 7-11, 2013!

This meeting will provide a lively forum for discussions of both the conceptual progress our community has made in our understanding of genes and genomes, and the great expectations we have for the future as we continue our explorations utilizing the latest interdisciplinary approaches and cutting edge technologies.

We hope to stimulate thought and intellectual exchange as we gather together in Chicago, a friendly and dynamic metropolis on the shores of Lake Michigan.

We want to hear from you! Do you have a symposium topic that you'd like to see at SMBE2013? Visit us at smbe2013.org and let us know. This is a chance for you to help develop the content of SMBE2013. Symposium topic submissions close in November.

Organizers: Manyuan Long, Yoav Gilad, and Joy Bergelson Secretariat: Julie Steffen and Emily Hudson Sponsors: Department of Ecology and Evolution, Department of Human Genetics, Biological Sciences Division, and The University of Chicago

Please visit smbe2013.org for more information. More details on abstract submissions and registration to follow soon.

Please contact secretariat@smbe2013.org with any questions.

"Bradham, Stefan" <sbradham@faseb.org>

Chicago SMBE Jul7-11 DeadlineExtended

DEADLINE EXTENDED for Symposia Topic Submission to SMBE 2013

Due to increased interest, we have extended the deadline for Symposia Topic Submission to November 30, 2012. This is your chance to help develop the content for SMBE 2013!

Visit us online at http://smbe2013.org/2013/-Symposia-Submissions.aspx to submit your symposium topic. You will be asked to provide a symposium title, brief abstract, your name, email address, and the names and email addresses of three proposed speakers who would be willing to attend.

PLEASE NOTE: You must contact the speakers to insure their availability prior to submitting your proposal. Without that commitment, we wont be able to schedule your symposia if selected.

While youre submitting your symposium topic, dont forget to book your hotel to secure the discounted SMBE2013 hotel rate just for attendees! This rate is only available through the SMBE2013 Registration Portal at http://smbe2013.org. Discover the difference between a hotel and a Hyatt when you stay with us at the AAA Four Diamond Hyatt Regency Chicago hotel in the heart of downtown Chicago, Illinois.

Don't wait for email – get updates faster by following us on Facebook and Twitter! New deadlines, announcements and information about science programming will be shared first via social media, so Like us at facebook.com/Smbe2013Chicago and follow @SMBE2013Chicago.

Please contact secretariat@smbe2013.org with any questions.

IMPORTANT DATES: Call for Symposium Topics Deadline Extended to November 30, 2012 Abstract Submission & Registration Opens December 2012

Submit a Symposium [http://smbe2013.org/2013/-Symposia-Submissions.aspx] Book Your Discounted Hotel Accommodations [https://resweb.passkey.com/-Resweb.do?mode=welcome_gi_new&groupID=-8960229] Interact, Network, Follow: SMBE2013 on Facebook [https://www.facebook.com/-Smbe2013Chicago] SMBE2013 on Twitter [http:/-/twitter.com/SMBE2013Chicago] Emily Hudson <secretariat@smbe2013.org>

Chicago SMBE2013 Jul7-11 CallSymposia

CALL FOR SYMPOSIA TOPICS: DEADLINE NOVEMBER 1, 2012

Help us develop content at SMBE 2013! We are currently accepting proposals for symposia topics online at http://smbe2013.org. If you are interested in submitting a topic, you will be asked to provide a symposium title, brief abstract, your name and email address, and the names and email addresses of three proposed speakers who would be willing to attend. Please note, you must contact the speakers to insure their availability prior to submitting your proposal.

Please submit your proposal by November 1, 2012 at http://smbe2013.org/2013/Symposia-Submissions.aspx . Don't forget to book your hotel early! Discover the difference between a hotel and a Hyatt when you stay at the AAA Four Diamond Hyatt Regency Chicago hotel in downtown Chicago, Illinois. Sway to the electrified beat of Chicago blues and jazz greats, take in a show at Navy Pier, shop on Michigan Avenue, or enjoy a day in the park or on the water. More information at http://smbe2013.org . If you have any questions please contact secretariat@smbe2013.org.

"Bradham, Stefan" <sbradham@faseb.org>

DalhousieU Endocytobiology Aug19-22

12th International Colloquium on Endocytobiology and Symbiosis

August 19th - 22nd, 2013 Dalhousie University, Halifax, Nova Scotia, CANADA

Dear Colleagues,

We are happy to announce that the 12th International Colloquium on Endocytobiology and Symbiosis of the International Society of Endocytobiology (ISE) will be held August 19th to 22nd 2013 at Dalhousie University in Halifax, Nova Scotia, Canada. The colloquium is being organized by John Archibald (jmarchib[at]dal.ca) and will cover the latest research on all aspects of endosymbiosis and the biology of endosymbiotically-derived organelles. We would be very happy to see you in Halifax for an exciting meeting. More information will follow in the coming weeks but for now please put a mark in your calendar.

Best regards,

Ralf Oelmüller, ISE President

John Archibald <jmarchib@dal.ca>

ExeterU QuantEvolutionaryDynamics Apr17-19

The purpose of this message is to announce the following meeting that may be of interest.

Quantitative Evolutionary Dynamics (QED) Microbial Communities: from the lab to natural environments 17th-19th April, 2013 Shaldon, Devon, by the sea near Dartmoor/Exeter University, UK: this is the village website http://www.shaldon-devon.co.uk/ Aimed specifically at younger scientists, this conference is a forum for research into evolving microbial systems bridging the gap between mathematical models, laboratory models and natural ecosystems. Speakers will talk about plant and human pathogens, natural fungal ecosystems, consortia of symbionts, their responses to antibiotics and viruses and single-cell observations of bacteria in microfluidic devices.

This is a MMEMS meeting http://www.mmems.org/- funded by an EPSRC Creativity@Home Award. To register, which is free, please go to http://-www.mmems.org/workshop.php# but please note that there is a limit of 50 participants.

International Speakers: Tim Barraclough, Imperial College Justin Meyer, Harvard Medical School Lon Chubiz, Harvard Systems Biology Chris Marx, Harvard Systems Biology Remy Chait, Harvard Medical School Markus Arnoldini, ETHZ Luz Becks, Max Planck Ploen Pietro Cicuta, Cambridge University Rosalind Allen, Edinburgh University Ben Cooper, Oxford University Martin Ackermann, ETHZ

Exeter Speakers: Ivana Gudelj William Gaze Francesca Fiegna Angus Buckling Murray Grant

Robert Beardmore Professor of Mathematical Biosciences Biosciences Streatham Campus University of Exeter r.e.beardmore@exeter.ac.uk

"Beardmore, Robert" <R.E.Beardmore@exeter.ac.uk>

Ferrara Italy ItalianSocEvolutionaryBiol Dec15-16

Dear friends and colleagues,

On behalf of the Italian Society for Evolutionary Biology (SIBE), and in collaboration with the Department of Life Science and Biotechnology of the University of Ferrara and the Museum of Natural History of Ferrara, we are pleased to invite all interested parties to attend

SIBE2012 – Simposio Evoluzione e Assemblea dei Soci (Symposium on Evolutionary Biology and Annual Business Meeting of SIBE members)

WHEN

15th - 16th December 2012. Beginning of scientific sessions on December 15th at 14.30

WHERE

15th December: Ferrara, Polo Chimico Bio Medico, via Borsari 46 (free parking inside)

16th December: Ferrara, Sala dei Comuni, Castello Estense (Communal Hall, Estense Castle)

THE SYMPOSIUM

The symposium is organized around six principal themes: population genetics, ecology and demography; sexual selection; phylogenies, species, and speciation; new technologies to study evolution; adaptation; human evolution. For each themethere will be an invited speaker as well as a presentation by a young researcher. All talks will be in English

INVITED SPEAKERS

Laurent Excoffier, University of Bern

Andrea Pilastro, Università diPadova

Dan Rabosky, University of Michigan

Michele Morgante, Università di Udine

Lino Ometto, Fondazione E.Mach, Trento

Johannes Krause, University of Tubingen

MEETING OF SIBE MEMBERS

The morning of December 16th will host the SIBE business meeting and with the election of the new President and Council Members . If you are not already a SIBE member, you can become one directly at the meeting by submitting the registration form and paying the annual dues of 30 euros (15 euros for students)

REGISTRATION

Attendance of the scientific sessions of the symposium is free. We do, however, ask that all people interested in attending notify by email sibe2012@unife.it.

SUBMITTING ABSTRACT - DEADLINE

Non-tenured researchers of 40 years or younger can send (before November 18th) an abstract, with an indication of the theme most pertinent to their research. For each theme one abstract will be chosen for an oral presentation. It is possible to submit an abstract not directly related to the themes of the symposium, but selection for a presentation is not guaranteed.All abstracts will be published on the meeting website.

TRAVEL GRANTS

Young participants (not faculty) who intend to participate in SIBE2012 and who submit an abstract can request a small financial contribution to cover travel costs and accommodation. These will be awarded on a first come-first served basis.

WEBSITE

More information (including logistics) can be found at www.sites.google.com/a/unife.it/sibe2012/ Giorgio Bertorelle, Università di Ferrara

Francesco Santini, Università di Torino

The SIBE council

– **** NEW ADDRESS ****

Francesco Santini

I.S.I. - Lagrange Visiting Fellow

Dipartimento di Scienze della Terra Università degli Studi di Torino

Via Valperga Caluso 35 10125 Torino Italy Phone: 0039-3391215011 E-mail: francesco.santini@alumni.utoronto.ca

Francesco Santini <francesco.santini@alumni.utoronto.ca>

Glasgow PopGenetics Dec18-21

Reminder: There is now one month left to register for the Population Genetics Group at the University of Glasgow, Scotland Dec. 18-21st.

Early-bird registration closes one month before the conference (Nov. 19) and registration will close 2 weeks before hand (Dec. 3). Please go to the conference website to register and to find further details about the programme, as well as information on travel and accommodation: http://www.populationgeneticsgroup.org/ . You can also go to that site to register for the email mailing list, to receive further announcements. There is a facebook page and you can sign up for twitter. If you are interested in sharing accommodation, please use facebook to advertise for a roommate; you can then book the accommodation together (please see the accommodation page on the website).

This year's plenary talks are:

Dec. 19 Mike Arnold, University of Georgia "Reproductive Isolation and Introgression: Lessons learned (and being learned) from the Louisiana Irises"

Dec. 20 Charlie Baer, University of Florida "Exploring the mutational landscape of Caenorhabditis"

Dec. 21 Rod Page, University of Glasgow "Why I blog instead of writing papers"

There will be an opening reception on Dec. 18, from 6 pm at the Jurys Inn (http://glasgowhotels.jurysinns.com/?gclid=-3DCK_Ui777hbMCFe7MtAoduRQArQ) in central Glasgow, where special rates for accommodation have been arranged. This will be preceded by an information session from the NERC Biomolecular Analysis Facility (NBAF), which provides access to high-level genomics, metabolomics and bioinformatics for the ecological and evolutionary research community in the UK using the latest technologies (http://nbaf.nerc.ac.uk/).

If you are interested in attending the NBAF information session, please send an email to Karim Gharbi (Karim.Gharbi@ed.ac.uk) before Dec 4 to register. The NBAF information session will run from 5 pm to 5.45 pm at the Jurys Inn, and will consist of an overview of NBAF facilities by NBAF Director, Terry Burke, followed by a question and answer session with NBAF staff. The session is primarily directed to PopGroup participants but all are welcome.

The Population Genetics Group (PGG or PopGroup) is a yearly international meeting held in the UK, covering all aspects of Evolutionary Genetics. There are typically 150-200 participants and there have been increasing numbers from other parts of Europe and further abroad. It is a relatively informal meeting but with a high standard of talks, so it is an excellent place for PhD students to present their work and mingle with leading experts.

Dr. Barbara Mable Rm 404 Graham Kerr Building Institute of Biodiversity, Animal Health and Comparative Medicine College of Medical, Veterinary & Life Sciences University of Glasgow Glasgow, Scotland G12 8QQ Email: barbara.mable@glasgow.ac.uk Phone: +44 (0)141 330 3532 Fax: +44 (0)141 330 5971

barbara.mable@glasgow.ac.uk

London GrassEvolution Oct10

Peter Linder will be giving the Sir Julian Huxley Lecture, "The evolutionary history of the danthonioid grasses: dispersal, niche evolution and radiation in the Southern Hemisphere" at The Linnean Society this Wednesday at 18.00. All are welcome. There will be wine served to members and guests afterwards. For abstract: http://www.systass.org/-events/JH-lecture-2012.shtml For directions to the Linnean Society: http://www.linnean.org/Contact+Us/-Find+Us Many thanks, Alex

Alex Monro Senior Botanist Tropical America Team The Herbarium Royal Botanic Gardens Kew TW9 3AB

T. (44) 020 8332 5288

skype: monro1968

Editor for Phytotaxa: http://www.mapress.com/-phytotaxa/index.htm; Phytotaxa guide for authors:http://www.mapress.com/phytotaxa/-author.htm Principal Investigator on Darwin Initiative project 'Baseline tools for the management of La Amistad National Park (Costa Rica/ Panama)' http://www.inbio.ac.cr/pila-darwin/ Principal Investigator on Darwin Initiative project 'Empowering local

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Alexandre Monro <A.Monro@kew.org>

LundU CausesConsequences OrganismDispersal Jan30-Feb1

Dear all,

We would like to announce the upcoming 3-day symposium on "*Causes and Consequences of Organism Dispersal*" from *January 30th to February 1st, 2013,* Ecology Building, Lund University, Lund, Sweden.

Eight research scientists from Europe and North America, working on various aspects of organism dispersal and involved in different scientific domains (ecology, physiology, biogeography, population and community structure, behavior studies, tracing devices, prediction and conservation), have confirmed their participation.

The registration to the symposium is free of charge. We encourage participants to attend or bring posters to share their work during the symposium and to join us for the discussion sessions and the dinners. The preliminary program has four vacant slots that will be selected among the submitted abstracts for poster presentation.

Registration and information on the symposium are now available on line: http://canmove.lu.se/-CCODispersal Welcome!

The organization committee –

Sylvie VM Tesson, PhD CAnMove Postdoctoral Fellow Aquatic Ecology, Department of Biology Lund University Ecology Building Sölvegatan, 37 22362 Lund, Sweden e-mail: Sylvie.Tesson@biol.lu.se tel.: +46-4622-29479 http://www.lu.se/aquaticecology/people/-postdocs/sylvie-tesson Upcoming Symposium on "Causes and Consequences of Organism Dispersal" Jan 30th - Feb 1, 2013, Lund, Sweden. Registration and information: *http://canmove.lu.se/CCODispersal* tesson.sylvie.vm@gmail.com

Miami Florida Biogeography Jan9-13

Early Registration is extended until 31st October, 2012 for the 6th Biennial Conference of the International Biogeography Society Florida International University, Miami, Florida, USA 09-13 January, 2013

Check out the IBS meeting website for more details and to register http://www.biogeography.org/html/-Meetings/2013/index.html 6th Biennial Conference of the International Biogeography Society North Miami, Florida, USA - January 9-13th

The meeting is built around four successive SYMPOSIA (10th & 11th January) each with a suite of leading international scientists and *openings for contributed papers*:

1. Island Biogeography: new syntheses (Organizers: Rob Whittaker & Kostas Triantis). 2. Beyond Bergmann: new persectives on the biogeography of traits (Organizers: Adam C. Algar and Nathan G. Swenson). 3. The convergence of conservation paleontology and biogeography (Organizers: Jenny McGuire & Edward Davis). 4. Predicting species and biodiversity in a warmer world: are we doing a good job? (Organizers: Antoine Guisan & Niklaus E. Zimmermann).

The meeting also has 12 sessions of CONTRIBUTED PAPERS (12th January) on key topics: i. Island biogeography ii. Neotropical biogeography iii. Climate-change biogeography iv. Conservation biogeography v. Pre-quaternary paleoecology and biogeography vi. Quaternary paleoecology vii. Phylogeography viii. Marine biogeography ix. Natural disturbance biogeography x. Global-scale biogeography xi. Hot topics in biogeography

Dr. Jim Brown will give a keynote lecture after receiving the Alfred Russel Wallace Award, recognizing his lifetime of outstanding contributions to biogeography. & Dr. Miguel Araújo will give a keynote lecture after receiving the MacArthur & Wilson Award, a new award recognizing an early-research individual for a notable, innovative contribution to biogeography.

In addition, before the meeting, on the 9th of January, five WORKSHOPS will be held: Biodiversity Informatics Training, Biogeography of Stress, Communicating Biogeography, Popular Science Writing, & an Introduction to Bayesian Statistical Analysis.

On the 9th & 13th of January, arranged FIELD EXCURSIONS will visit a number of Florida's beautiful biogeographic locations.

=Michael N Dawson mdawson@ucmerced.edu

dawson.mn@gmail.com

Miami Florida NeotropicalBiogeography Jan14

2nd meeting of the Network for Neotropical Biogeography

* *

Theme: Integrating Neotropical Research

Venue: Montgomery Botanical Center, Coral Gables, Miami, Florida, USA

*Date: *January 14th, 2013 (immediately after the 6th Biennial meeting of the International Biogeography Society)

*Organizers: *Christine Bacon and Alexandre Antonelli (http://antonelli-lab.net)

*Rationale: *Tropical America (the Neotropics) offers a splendid opportunity for studying evolution and biogeography. The region's outstanding biodiversity, its comparatively well-known geological history, the relative ease of travelling and conducting fieldwork (with Spanish as a lingua franca), and the rapid increase in highly competent Latin American biologists and well-equipped institutions, all contribute to making the Neotropics a great research arena for a new generation of students and established researchers alike.

Despite an increasing amount of interest, there is limited coordination and interactions among independent research groups. This is unfortunate given the scientific and spatial dimensions of Neotropical research and the scarce funding available. This one-day meeting aims at improving this situation by *bringing together representatives for as many research groups as possible* working on Neotropical biogeography and evolution - regardless of methodology, data source, spatial/temporal scale, or organismal group studied. Talks will therefore be welcome from the fields of molecular phylogenetics, paleontology, ecology, etc.

Each *research group* will be given a time slot (e.g., 20 minutes) to present their *current and planned activities*, which will be followed by discussion for feedback and possible interactions with the other participants (e.g. joint fieldwork, material exchange, scholarships, etc). The presentations can be done by each group's PI and/or group members.

There is *no need to submit an abstract; *but you must* send a title*(preferably the project title) and the number of other attendees from your lab group to confirm your participation to Christine Bacon as soon as possible, and *by October 31st,* at the latest. Please await a confirmation for the symposium before booking any extra hotel nights or flights, as the maximum number of participants is restricted to 60 (due to space constraints).

Transportation will be arranged between the IBC 2013 partner hotel (Newport Beachside Resort; http://-/www.newportbeachsideresort.com/) and the meeting site (Montgomery Botanical Center; http://-www.montgomerybotanical.org/).

The *meeting fee* will be calculated depending on the number of registered participants but will be kept as low as possible. A separate fee will apply for the dinner (a *Cuban fiesta to not miss!*).

Feel *free to distribute this announcement* to anyone who could be potentially interested!

Questions and comments can be directed to Christine Bacon (christinedbacon [at] gmail.com).

Christine D. Bacon Post-Doctoral Research Fellow Jaramillo Lab Smithsonian Tropical Research Institute Barro Colorado, Panama - and - Universidad Industrial de Santander Bucaramanga, Colombia

http://www.antonelli-lab.net/people Christine Bacon <christinedbacon@gmail.com>

Netherlands BehaviouralEvolution Nov28-30

On 28-30 November 2012 there is a special conference on Behavioural Biology in the Netherlands, to celebrate the 20th anniversary of the Netherlands Society for Behavioural Biology (NVG). For this special occasion we have three keynote speakers and six topical sessions:

Wednesday 28 November Keynote 1: Constance Scharff - neuro-ethology of song learning and production;

Thursday 29 November Session 1) Acoustic communication (Claartje Levelt & Carel ten Cate); Session 2) Animal welfare (Hanno Wuerbel & Andrew Janczak); Session 3) Behavioural ecology (Geoff Parker & Franjo Weissing);

Keynote 2: Hans van Dyck - the ethological "Umwelt"-concept in animal conservation biology;

Friday 30 November Session 4) Animal personality (Jaap Koolhaas & Kees van Oers); Session 5) Sexual selection and speciation (Astrid Groot & Martine Maan); Session 6) Social behaviour (Ronald Noe & Liesbeth Sterck).

Keynote 3: Kevin Laland - on cause and effect relationships in biological research.

Register for the 20th NVG Annual Meeting through www.gedragsbiologie.nl/Soesterberg2012! Deadline for early-bird fees and abstract submission: BEFORE 1 November 2012 (local time)!

DETAILED INFORMATION: The annual meeting of the Netherlands Society for Behavioural Biology (NVG) will be held from Wednesday 28 until Friday 30 November 2012 in conference hotel 'Kontakt der Kontinenten' in Soesterberg, The Netherlands. (www.kontaktderkontinenten.nl). The meeting is financially supported by The Netherlands Organisation for Scientific Research, Division of Earth and Life Sciences (NWO-ALW), Noldus Information Technology and Brill/Behaviour.

For this special occasion we will have three keynote speakers: The meeting will be opened by Prof. dr. Constance Scharff from the Freie Universitat Berlin, Germany. She will present her work on the neuro-ethology of song learning and production. There will be an evening lecture by Prof. dr. Hans van Dyck from the Universite Catholique de Louvain, Belgium. He will discuss the ethological "Umwelt"-concept in the context of animal conservation biology The meeting will be closed by Prof. dr. Kevin Laland from the University of St Andrews, United Kingdom, who will present the Baerends Lecture, on cause and effect relationships in biological research.

Furthermore, we will have six special sessions each composed of a senior invited speaker topically matched with another senior researcher from the Netherlands. Junior researchers (PhD/postdoc) are encouraged to submit a presentation for the meeting, preferentially fitting any of the subject categories of the special sessions:

1) Acoustic communication (Claartje Levelt & Carel ten Cate); 2) Animal welfare (Hanno Wuerbel & Andrew Janczak); 3) Behavioural ecology (Geoff Parker & Franjo Weissing); 4) Animal personality (Jaap Koolhaas & Kees van Oers); 5) Sexual selection and speciation (Astrid Groot & Martine Maan); 6) Social behaviour (Ronald Noe & Liesbeth Sterck).

There is one slot available per session, but there is also a poster session planned. Sessions 1, 2, and 3 and the poster session are planned on Thursday 29 November; sessions 4, 5 and 6 are planned on Friday 30 November.

The annual meeting will be preceded by a workshop for starting PhD-students (as usual) on Wednesday 28th of November. This workshop is organized by Kate Lessells and focuses on metaanalysis in behavioural biology. The workshop will consist of a guest speaker - Mirre Simons - on the focal topic, and several PhD students who will present work from their research projects. Ample time for discussion is planned in. All PhD students in behavioural biology are invited to attend! For information and questions about the PhD workshop, please contact Kate Lessells (k.lessells@nioo.knaw.nl).

For registration, please go to www.gedragsbiologie.nl/-Soesterberg2012. For information and questions contact Martijn Egas (egas@uva.nl).

Best wishes,

Martijn Egas

on behalf of NVG | www.gedragsbiologie.nl
C.J.M.Egas@uva.nl

Oeiras Portugal Evolution Dec21

Dear colleagues of the evolution community,

Registrations are now open for the VIII Portuguese Evolutionary Biology Meeting (ENBE), to be held on the 21st of December, 2012, at the Instituto Gulbenkian de Ciência in Oeiras, Portugal.

!!!The deadline for abstract submission is NOVEMBER 30th, 2012!!!

You will be able to register here: http://-www.igc.gulbenkian.pt/enbe2012/ , as well as find the preliminary program and poster for the meeting. Please share this information and the poster with anyone that may be interested in the meeting.

We expect this meeting to be a landmark for the study of evolution in Portugal, since we will have the first elections for the Portuguese association for evolutionary biology. For more information regarding the APBE and its mission, please visit www.biologia-evolutiva.net (in portuguese).

Please forward this email to anyone you know that might be interested in participating.

The ENBE organizing committee

Lilia Perfeito <lilia.perfeito@gmail.com>

Roscoff GeneticSystems May22-26

Dear Colleagues We would like to draw your attention to an upcoming Jacques Monod Conference:

RECENT ADVANCES ON THE EVOLUTION OF SEX AND GENETIC SYSTEMS

May 22-26, 2013 in Roscoff (Brittany), France.

Jacques Monod Conferences, organized by CNRS, are known for the high scientific quality of the talks and discussions, in a relaxed atmosphere.The topics covered by the conference include: the advantage of sex and recombination, the biology of sexual and asexual reproduction, the evolution of inbreeding vs. outcrossing, and the evolution of sex chromosomes and sexual differentiation.

The list of invited speakers is given below. Information about the conference and how to register is available at http://www.cnrs.fr/insb/cjm/cjmprog_e.html Symposium Speakers:

AGRAWAL Aneil (Toronto, Canada) BACHTROG Doris (Berkeley, USA) BARRETT Spencer (Toronto, Canada) BARTON Nick (Vienna, Austria) CASTAGNONE-SERENO Philippe (Sophia-Antipolis, France) CHARLESWORTH Brian (Edinburgh, United Kingdom) CHARLESWORTH Deborah (Edinburgh, United Kingdom) DAVID Patrice (Montpellier, France) DE VISSER Arjan (Wageningen, The Netherlands) DELPH Lynda (Bloomington, USA) DUFAY Mathilde (Lille, France) GIRAUD Tatiana (Orsay, France) GLÉMIN Sylvain (Montpellier, France) HAAG Christoph (Montpellier, France) JOHNSON Marc (Toronto, Canada) LENORMAND Thomas (Montpellier, France) LIVELY Curt (Bloomington, USA) LOGSDON John (Iowa City, USA) MANK Judith (Oxford, United Kingdom) MARAIS Gabriel (Lyon, France) OTTO Sarah (Vancouver, Canada) PANNELL John (Lausanne, Switzerland) PERRIN Nicolas (Lausanne, Switzerland) PORCHER Emmanuelle (Paris, France) ROZE Denis (Roscoff, France) SCHÖN Isa (Brussels, Belgium) SCHWANDER Tanja (Groningen, The Netherlands) SHARBEL Tim (Gatersleben, Germany) SIMON Jean-Christophe (Le Rheu, France) STADLER Tanja (Zurich, Switzerland) VEKEMANS Xavier (Lille, France)

We hope to see you there Denis Roze & Tanja Schwander

Tanja Schwander <tanja.schwander@gmail.com>

Snowbird Utah Evolution Jun21-25

THE WEBSITE FOR THE ANNUAL EVOLUTION MEETING, JOINTLY SPONSORED BY THE AMERICAN SOCIETY OF NATURALISTS (ASN), THE SOCIETY OF SYSTEMATIC BIOLOGISTS (SSB) AND THE SOCIETY FOR THE STUDY OF EVOLUTION (SSE), IS NOW FUNCTIONING: http://www.evolutionmeeting.org/ The meeting will be held June 21-25, 2013 at the Meeting and Conference Center Snowbird, Utah, USA. The Snowbird Conference Center and Alpine Pedestrian Village is located at 2365 m (7,760 ft) elevation, just a short distance from Salt Lake City International Airport in Little Cottonwood Canyon on the west slope of the Wasatch Range of the Rocky Mountains. Recreation opportunities abound in and near the village/conference site with easy access to hiking, biking, and skiing (conditions permitting).Â All lodging, meeting rooms, restaurants, shopping, and childcare facilities are just a few minutes walk from each other and all located within the village.Â Snowbird is surrounded by spectacular views of mountain slopes covered with alpine meadows, cottonwoods, conifers, and impressive rock formations.Â

IMPORTANTLY (all information below and more can be found at the Evolution 2013 website):

RESERVATIONS FOR LODGING IN THE SNOWBIRD ALPINE VILLAGE CAN NOW BE MADE

-For reservations by phone please call 800-453-3000

-Please remember to mention "EVOLUTION 2013" when you reserve by phone.

-When reserving online use the group code 2BF4DY to obtain our discounted rates

-Your reservation for lodging with Snowbird helps reduce registration costs

REGISTRATION AND TALK TITLE SUBMISSION WILL OPEN IN JANUARY

-The meeting schedule will follow that of recent years with a few modifications

-On Monday there will be a 1/2 day recess for recreation and field trips

-There will be an all-society mixer/award ceremony instead of a banquet on Tuesday evening INCLUDED with your registration fee

THERE WILL BE OPPORTUNITIES FOR STUDENTS WITH SOCIETY AFFILIATION TO HELP WITH THE MEETING IN EXCHANGE FOR FREE REGISTRATION

CHILDCARE INFORMATION WILL BE UPDATED SHORTLY

We look forward to welcoming you to Evolution 2013

SEE YOU IN SNOWBIRD!

The Snowbird Organizing Committee (Drs. Cruzan, Dudash and Fenster)

cfenster@umd.edu

Snowbird Utah Evolution2013 Jun21-25 2

THE WEBSITE FOR THE ANNUAL EVOLUTION MEETING, JOINTLY SPONSORED BY THE AMERICAN SOCIETY OF NATURALISTS (ASN), THE SOCIETY OF SYSTEMATIC BIOLOGISTS (SSB) AND THE SOCIETY FOR THE STUDY OF EVOLUTION (SSE), IS NOW FUNCTIONING: http://www.evolutionmeeting.org/ The meeting will be held June 21-25, 2013 at the Meeting and Conference Center Snowbird, Utah, USA. The Snowbird Conference Center and Alpine Pedestrian Village is located at 2365 m (7,760 ft) elevation, just a short distance from Salt Lake City International Airport in Little Cottonwood Canyon on the west slope of the Wasatch Range of the Rocky Mountains. Recreation opportunities abound in and near the village/conference site with easy access to hiking, biking, and skiing (conditions permitting). All lodging, meeting rooms, restaurants, shopping, and childcare facilities are just a few minutes walk from each other and all located within the village. Snowbird is surrounded by spectacular views of mountain slopes covered with alpine meadows, cottonwoods, conifers, and impressive rock formations.

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We look forward to welcoming you to Evolution 2013

SEE YOU IN SNOWBIRD!

The Snowbird Organizing Committee (Drs. Cruzan, Dudash and Fenster)

Mitch Cruzan <cruzan@pdx.edu>

UCollegeLondon LERN Nov6

DATE CHANGE - please note the conference has been moved to a new date:

The 10th Annual LERN Conference 09:00-17:30, Tuesday 6 November 2012 Archaeology Lecture Theatre University College London Free Registration

Please note that the LERN conference will now be held on Tuesday 6 November. The committee apologises for any inconvenience from the change of date, and hopes that you are still able to attend.

**** Poster Abstract submission extended ****

All talk slots are now filled, but poster abstracts are invited for submission. The poster display will run throughout the day, with specific sessions scheduled during plenary session breaks. Prizes will be awarded for the best poster.

The LERN conference provides an opportunity for postgraduate students and early-career researchers working on any aspect of evolution to present their work to a diverse audience. Coffee breaks, lunch, and a post-event wine reception will be provided.

This year's session keynote speakers will be: - Dr Marc Jones, UCL - the founding Chairman of LERN - Dr Keith Jensen, QMUL - Dr Frank Jiggins, University of Cambridge

Venue: Archaeology Lecture Theatre G6, Institute of Archaeology, 31-34 Gordon Square, London, WC1H 0PY

Registration is free.

Please register for attendance stating your name and affiliation, by email to: londonevolution@gmail.com.

On-the-day registration will be possible, but pre-registration is appreciated for catering logistics.

*To apply to present a poster, please email your abstract (250 word limit) with the following information to londonevolution@gmail.com by Friday 5 October 2012: - Name - Institution and Department - Programme and year of study

– The LERN Committee London Evolutionary Research Network (LERN) http://-/www.londonevolution.net < http://-www.londonevolution.net/ > http://twitter.com/-londonevolution http://facebook.com/londonevolution http://vimeo.com/londonevolution londonevolution@gmail.com

UStAndrews EvolutionInsectMatingSystems Sep4-6

FIRST NOTIFICATION

Royal Entomological Society: Ento '13 International Symposium and Annual National Science Meeting

4th-6th September 2013, University of St Andrews, Scotland

"Thirty years of Thornhill & Alcock: The Evolution of Insect Mating Systems"

Symposium Convenors: David Shuker (david.shuker@st-andrews.ac.uk) and Leigh Simmons (leigh.simmons@uwa.edu.au)

National Science Meeting Convenor: Graham Stone (graham.stone@ed.ac.uk)

The International Symposium:

The International Symposium will celebrate 30 years of Thornhill and Alcock's ground-breaking book The Evolution of Insect Mating Systems. The book has had an enormous impact on multiple generations of entomologists and behavioural ecologists, and we will celebrate that achievement and explore the progress we have made in understanding insect mating systems and reproductive behaviour since 1983. The original book covered many aspects of insect mating systems, from the evolution of sex and sexual systems, through to how ecology and sexual selection interact to shape the mating systems we see. Much has happened in the three decades since the book was published, including major advances in our understanding of the evolution of sex, sexual selection (especially mate choice and post-copulatory sexual selection), the mechanistic basis of reproductive behaviour, and of course sexual conflict. Insects have played a major role in all these developments, as the symposium and the accompanying volume will highlight.

Symposium speakers to include: Göran Arnqvist (Uppsala) Boris Baer (University of Western Australia) Roger Butlin (University of Sheffield) Trish Moore (University of Georgia) Ben Normark (UMASS) Leigh Simmons (University of Western Australia) Per Smiseth (University of Edinburgh) Rhonda Snook (University of Sheffield) Nina Wedell (University of Exeter)

National Science Meeting:

The National Meeting will comprise a series of themed sessions as well as general entomology sessions open to talks on any entomological topic. Depending on the presentations offered by delegates, sessions may be combined or delegates may be asked to present a poster instead of a talk (or vice versa).

Proposed Themed Sessions: Pollinator Behaviour, Ecology and Evolution Beneficial Insects: Biological Control and Beyond Sexual Selection in Insects Entomology for the Masses: Impact and Outreach Insect Community Ecology Insect Genomics

For further details please: http://-www.royensoc.co.uk/content/ento-13-4-6-september-2013 REGISTRATION DETAILS and a full list of SYMPOSIUM SPEAKERS to follow shortly.

** ENTO 2013 University of St Andrews 4th-6th September 2013**

For further details of the Royal Entomological Society's International Symposium "Thirty Years of Thornhill & Alcock: The Evolution of Insect Mating Systems" and National Science Meeting please visit: http://www.royensoc.co.uk/content/ento-13-4-6-september-2013 Dr David M Shuker Lecturer in Behavioural Ecology School of Biology University of St Andrews St Andrews KY16 9TH United Kingdom

Email: david.shuker@st-andrews.ac.uk Tel: +44 1334 463376 Fax: +44 1334 463366 Web: http://insects.st-andrews.ac.uk dms14@st-andrews.ac.uk

Symposia and Workshops

01 - GfBS-Symposium: Small but manifold: Protist diversity 02 - Swiss Systematic Society-Symposium: Evolution of parasites and parasitoids 03 - Svenska Systematikföreningen-Symposium: Phylogenetic methods 04 - Société Française de Systématique-Symposium: Cryptic species 05 - The Systematics Association-Symposium: Animal venoms 06 - NOBIS Austria-Symposium: Estimate of biodiversity in space and time 07 - Alpine biodiversity 08 - Biotic responses to climate change 09 - Philosophy of phylogeny 10 - Evo-devo 11 - Biodiversity-Informatics: Data mobilization with GBIF-D 12 - Processes of diversification and speciation 13 - Systematics as an integrative science 14 - Plant-animal interactions15 - Evolutionary epigenetics 16 - Evolution and systematics of colonial organisms 17 - Nomenclature for the future 19 - Hybrid evolution and speciation 20 - Medicine and systematics 21 - Biogeography and systematics 27 - Detecting errors in phylogenies 28 - The evolution of asexual plants and animals 29 - Molecular approaches to species delimitation 30 - High throughput species identification in the age of next generation sequencing - progress and challenges 31 - Research collections in the contexts of preservation issues and scientific use

Information gemaess UGB Par. 14 Abs. 1

Naturhistorisches Museum 1010 Wien, Burgring 7 Firmenbuchnummer: FN 236724z Firmenbuchgericht: Handelsgericht Wien UID: ATU 38020609 Rechtsform: Wissenschaftliche Anstalt oeffentlichen Rechts des Bundes

Kruckenhauser Luise <luise.kruckenhauser@NHM-WIEN.AC.AT>

Vienna BioSyst Feb18-22

Dear colleagues,

NOBIS Austria is honoured to host and organise the 2nd BioSyst.EU meeting from February 18th to 22nd 2013 in Vienna.

The conference will take place at the University of Vienna (UZA II building). For registration and abstract submission visit the congress website http://-biosysteu.univie.ac.at/ . A selection of hotels which can be booked via the homepage are available, as well as a voucher for a reduction of 15% on Austrian Airlines Flights.

The deadline for early registration and abstract submission is October 31st, 2012.

Vienna EvolutionaryEpigenetics Feb18-22

It is a pleasure to announce a symposium focused on

EVOLUTIONARY EPIGENETICS

to be held at the BioSyst.EU 2013 conference (http:/-/biosysteu.univie.ac.at/home/), Vienna, Austria, 18 to 22 Feb 2013. This is the meeting of the Federation of European Biological Systematic Societies, including The Systematics Association, Gesellschaft für Biologische Systematik, Nobis Austria, Swiss Systematics Society, Svenska Systematikföreningen, and Société Française de Systématique.

INVITED SPEAKERS:

Prof. Ueli Grossniklaus, University of Zürich, Switzerland

Prof. Magnus Nordborg, GMI, Austria and University of S California, USA

Dr. Koen Verhoeven, Netherlands Institute of Ecology, The Netherlands

Several additional talks will be selected from the submitted abstracts. Early-fee registration and abstract submission still open until 31 Oct 2012.

REGISTRATION link: http://biosysteu.univie.ac.at/-registration/ ABSTRACT submission: http://-biosysteu.univie.ac.at/abstract-submission/

ABSTRACT:

Elucidating the evolutionary implications of epigenetic signals promises to significantly improve our understanding of the mechanisms underlying natural phenotypic variation and organismic adaptive strategies. Recent investigations already integrate epigenetics in population genetics, evolutionary biology and ecology, particularly when studying biotic responses to changing environmental conditions. The reality of transgenerational epigenetic inheritance in a broad variety of organisms currently challenges the gene-centered view that still dominates the evolutionary thinking about variation, adaptation and evolution. Accordingly, our focus in the study of evolution is shifting from single genes to developmental/regulatory networks and holistic phenotypes.

Additional related topics will be discussed in other symposia and workshops offered at BioSyst.Eu2013 - to give only few examples: "Biotic responses to climate change", "Evo-devo", "Processes of diversification and speciation", "Hybrid evolution and speciation", etc.

The Evolutionary Epigenetics symposium is being sponsored by the Linnean Society of London, which is greatly appreciated.

Best regards

Ovidiu Paun

University of Vienna Austria ovidiu.paun@univie.ac.at www.botanik.univie.ac.at/systematik/-projects/dactylorhiza Ovidiu Paun <ovidiu.paun@univie.ac.at>

Vienna ProcessesSpeciation Feb18-22

It is a pleasure to announce a symposium focused on

PROCESSES OF DIVERSIFICATION AND SPECIATION

to be held at the BioSyst.EU 2013 conference (http://-/biosysteu.univie.ac.at/home/), Vienna, Austria, 18 to 22 Feb 2013. This is the meeting of the Federation of European Biological Systematic Societies, including The Systematics Association, Gesellschaft für Biologische Systematik, Nobis Austria, Swiss Systematics Society, Svenska Systematikföreningen, and Société Française de Systématique.

INVITED SPEAKERS:

Prof. Christian Lexer, University of Fribourg, Switzerland

Prof. Axel Meyer, University of Konstanz, Germany

Several additional talks will be selected from the submitted abstracts. Early-fee registration and abstract submission still open until 31 Oct 2012.

REGISTRATION link: http://biosysteu.univie.ac.at/-registration/ ABSTRACT submission: http://-biosysteu.univie.ac.at/abstract-submission/ ABSTRACT: Elucidating processes of diversification and speciation is paramount for our understanding of how the tremendous biodiversity observable today has originated and how it may react to threats and challenges imposed by human activities now and in the future. Technological advances with respect to data generation (e.g., next-generation sequencing, sophisticated analytical tools) as well as conceptual advancements (e.g., modes and models of speciation) set an excitingly powerful framework for studying those processes (e.g., hybrid and polyploid speciation, ecological speciation, sexual selection) in and beyond model organisms.

Additional related topics will be discussed in other symposia and workshops offered at BioSyst.Eu2013, which include, among others, "Biotic responses to climate change", "Evo-devo", "Evolutionary epigenetics", "Hybrid evolution and speciation", "Phylogenetic methods"

Best regards

Gerald M. Schneeweiss

University of Vienna Austria gerald.schneeweiss@univie.ac.at http://-www.botanik.univie.ac.at/plantchorology/-schneeweiss.htm "Gerald M. Schneeweiss" <gerald.schneeweiss@univie.ac.at>

GradStudentPositions

Basel Switzerland SexualSelection

PhD position on 'Quantifying Sexual Selection in a Simultaneous Hermaphrodite'

A 3-year full-time PhD position, funded by the Swiss National Science Foundation, is available in the group of Lukas Scharer, at the Zoological Institute, University of Basel, Switzerland (http://evolution.unibas.ch). The ideal starting date is January 2013 (but there is some flexibility regarding this).

Our research focuses on the evolutionary ecology of reproduction in simultaneous hermaphrodites, us-

ing a highly suitable model organism, the free-living marine flatworm Macrostomum lignano (http://-evolution.unibas.ch/scharer/). Our research integrates a diversity of approaches, including controlled laboratory experiments, molecular developmental biology, quantitative genetics, genomics, field work, molecular phylogenetics and comparative methods. The practical work for this PhD project will primarily involve breeding experiments in the lab, a range of molecular biology approaches, and some field work in the Mediterranean Sea.

One central aim of the project is to describe and quantify sexual selection on different male and female reproductive traits along the pre- to post-copulatory axis, using a state of the art approach based on Bateman's principles that we have recently extended to hermaphrodites (see Anthes et al. 2010, Am. Nat.). Recently established transgenic GFP-expressing worms now allow us to track the sperm cells of GFP-positive sperm donors in their GFP-negative partners in vivo (think 'watching sperm at work'), and we can use the same GFP marker for extremely efficient paternity analysis.

Moreover, we have recently established tools that allow us to manipulate different reproductive traits using dosage-dependent RNA interference of specific reproductive genes (see e.g. Sekii et al. 2009, BMC Dev Biol). We are now taking advantage of next generation sequencing approaches (whole-genome and transcriptome sequencing, and gene expression studies using RNAseq) to identify additional relevant genes. Thus the other central aim of the project will be to experimentally validate the importance of (at least some of) the traits identified with the first aim (think 'phenotypic engineering of sexually selected traits').

Finally, the work will be performed in collaboration with a PostDoc to be hired on the same project. This PostDoc will likely focus on the quantitative genetics, genetic architecture, and indirect genetic effects of a broad range of reproductive traits in this system, thus complementing the aims of the project of the PhD student. However, the specific interests, skills, and backgrounds of the PhD and PostDoc candidates will have a considerable influence on the scope of the work, and there is ample room for developing own ideas and approaches. The study system offer tremendous opportunities for sexual selection and sexual conflict research.

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

The Scharer group belongs to the Evolutionary Biology at the Zoological Institute, University of Basel, a stimulating and highly international research environment with English as the predominant language (a recent count yielded ~20 nationalities). The other groups focus on host-parasite interactions (Ebert), speciation in cichlids (Salzburger) and sticklebacks (Berner), evolution of the immune system (Du Pasquier), behavioral ecology of birds (Amrhein), and parent-offspring conflicts (Kölliker) (see http://evolution.unibas.ch/-research.htm). Our Institute has a strong background in experimental design, statistics, population genetics, quantitative genetics, genomics and molecular biology. So it is an ideal place for a PhD candidate interested in evolutionary biology.

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

To apply, please send a letter of motivation, a CV, contact details of 2 referees, and a copy of your MSc-thesis (if available) to lukas.scharer@unibas.ch (electronic applications in a single file are preferred). Reviewing of applications starts on October 31, but applications will be considered until the position is filled.

For more details about our research please visit

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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

CSIRO UMelbourne UMonash ClimateAdaptation

PhD Projects

The Genomic Basis of Adaptation to Climate Change

- Top-up Scholarships are available as part of a long-term research project funded by the *Science and Industry Endowment Fund *running across * CSIRO*,

The University of Melbourne and *Monash University*

- * *

- Four PhD projects are currently available:

- Genomics of climatic adaptation (*Drosophila* and *Eucalypts*)

- Metabolomics of climatic adaptation

- Transcriptomics of climatic adaptation

-

- Interested candidates should contact:

- Prof John Oakeshott john.oakeshott@csiro.au

- Prof Ary Hoffmann ary@unimelb.edu.au

- Dr Carla Sgrò carla.sgro@monash.edu

* *

PHD PROJECT OUTLINES

Drosophila as a model system for using genomic and genetic techniques to understand climate adaptation (2 projects)

Australian Drosophila species are good model systems for developing new tools to understand the genetic basis of climate adaptation - questions about what (genomically) makes a climate specialist and a climate generalist can be answered in this group because the species vary enormously in their geographic range but utilize similar resources. We have initiated a large scale sequencing project that will provide genomic and transcriptomic information across Drosophila clades, and this represents an opportunity for student projects to understand the nature of adaptive processes across space and time. We are seeking students with an ability to think in novel ways about using these resources. They might have interests in bioinformatics and/or ecological genetics as an initial starting point.

*Metabolomics of climate stress responses in Drosophila. *

A PhD student project is available to use cutting edge metabolomic, and in particular lipidomic, technology in order to investigate the biochemical basis for Drosophila species' various abilities to adapt to climate stresses. The species come from a range of climatic niches and show very different abilities to adapt to climate stresses. They will also have already been characterised for the genetic, genomic and transcriptomic bases for their responses to these stresses, and preliminary results indicate that species confined to tropical rainforest ecologies have much less heritability for these responses. There is thus a range of unique resources and important preliminary results available for the metabolomics to build on, which should provide deep insights into the biochemical bases for adaptation. Students interested in the project should have some background or interest in linking biochemical methods to ecology.

Genomic basis for adaptation to climate stresses in eucalypts.

Eucalypts are foundation components of many Australian ecosystems, so their ability to adapt to climate change will be crucial to the resilience of the ecosystems in the face of climate change. This project will use next gen' sequencing technology to screen for genomic variation across temperature and aridity gradients for a key eucalypt species, and test for associations between that variation and ecophysiological measures of climate stress responses. Pre-existing plots of different biotypes reared in common environments could also be tested. The work will inform the potential of using these techniques in building evolutionary resilience in populations and ecosystems. Students interested in applying for this project should have the ability to think across disciplines and have some background in molecular and/or population/quantitative genetics, and a willingness to undertake field work.

– Dr Carla M. Sgrò Senior Lecturer and ARC Future Fellow School of Biological Sciences Building 18, Monash University Clayton Campus Wellington Rd, Clayton 3800 Melbourne, Victoria Australia

Email: carla.sgro@monash.edu Phone ++ 61 3 9902 0332

http://www.biolsci.monash.edu.au/staff/fellows/-sgro/index.html carla.sgro@monash.edu

CarletonU IndigenousPerspectivesEvolution

If interested in pursing an MSc or PhD in Indigenous/Aboriginal perspectives in evolution and ecology with Root Gorelick at Carleton University in Ottawa, please send me the following information, preferably in a single e-mail attachment: (1) most importantly, a thoughtful and passionate 1-2 page essay on why you would like to pursue this degree and your vision of what the research might entail, (2) your CV, (3) a scanned copy of your university transcript, and (4) contact information for at least two faculty members who could

recommend you. Tentative, less formal inquires are also welcomed.

Funding is currently only available for citizens and permanent residents of Canada.

MY VIEW: Much of modern western evolution and ecology is reductionist and typological, despite being about relationships amongst natural entities. Even when taking on population perspectives, there is a focus on averages (vice outliers), competition (vice cooperation), single species (vice communities), and single hierarchal levels. Turtle Island Indigenous peoples developed detailed and robust evolutionary and ecological frameworks that are often different from each other and from western views. Differences can be due to local conditions (e.g. northern tundra versus southern desert), with substantial emphasis on spatially local knowledge, especially compared with global perspectives of western colonial traditions. Differences may be due to false dichotomies between natural and social science and between humans and other organisms. Western science may be too negative, relying on the floundering philosophical framework of falsification and on killing and imprisoning many animals and plants, whereas Indigenous sciences seem to offer more positive and constructive approaches. Did different epistemologies and ontologies arise because of differences in spatial and temporal scales, differences in domestication of animals, or gynocratic world-views? In Indigenous versus western studies of evolution, why is there usually a very different emphasis on origin, as opposed to maintenance, of entities and traits? Do Indigenous ways of knowing parallel western theory and natural history, which often seem detached from western scientific method? By comparing and contrasting multiple perspectives, can we improve each of the frameworks for understanding evolutionary and ecological patterns and processes, thereby better understanding the natural world, ourselves, and our communities?

Respectfully, Root Gorelick Carleton University Ottawa, Ontario Root_Gorelick@carleton.ca http://-www.carleton.ca/~rgorelic 613-520-2600 ext. 1586

Root_Gorelick@carleton.ca

DartmouthC EvolutionaryBiol

Ph.D. Graduate Student Opportunities at Dartmouth

The Graduate Program in Ecology and Evolutionary Biology at Dartmouth College invites applications from prospective Ph.D. students. We offer a wide range of opportunities for studying a diversity of biological systems from ecological and evolutionary perspectives, and our core group of enthusiastic faculty, graduate students and post-docs provide an exciting environment in which to pursue a Ph.D http://www.dartmouth.edu/-~biology/ .Generous financial support is provided in the form of Dartmouth Fellowships, health care, and a substantial yearly discretionary fund for research and travel that are guaranteed for 5 years. Applicants with excellent records and who demonstrate financial need are also eligible for a U.S. Department of Education Graduate Assistance in Areas of National Need (GAANN) Fellowship. Detailed information about the program, and access to online applications, are available at http://www.dartmouth.edu/-~biology/graduate/eeb/. We encourage interested students to contact faculty prior to applying.

Applications will be considered beginning on December 1st. Promising applicants will be invited and hosted for interviews in January.

Dartmouth is an equal opportunity/affirmative action employer and encourages applications from women and members of minority groups.

“Ryan G. Calsbeek” <Ryan.G.Calsbeek@dartmouth.edu>

DukeU MarineMicrobeDiversity

The microbial oceanography group at the Duke Marine Laboratory, a part of the Nicholas School of the Environment at Duke University, invites applications for its PhD program for students matriculating in Fall 2013. We broadly study the abundance, diversity and activity of marine microbes from both ecological and evolutionary perspectives. We are biological oceanographers, marine molecular ecologists, marine microbiologists and biogeochemists and our research spans from single cell analyses in the laboratory to global ocean surveys aboard research vessels. Our research focuses on the marine cyanobacteria Prochlorococcus, the most abundant phytoplankton in the open oceans and an excellent model marine microbe.

Prospective applicants, who should be hard-working and independent, have a track record of success and want to work as part of team of scientists with diverse backgrounds but similar interests, are strongly encouraged to contact us directly before applying. Prospective

graduate students interested in joining the laboratory can apply through the Division of Marine Sciences or the Ecology Program at Duke University. Graduate education in both programs focuses on using quantitative techniques including using mathematics and computational approaches such as bioinformatics, statistics, evolutionary genetics, functional genetics among others, but also bench and field science. Prospective students who apply should have a strong background in math, statistics, computation (e.g. MATLAB, R, Python) or other quantitative approaches, or a desire to acquire these skills in graduate school.

For more information on opportunities for PhD students, please consult our website or contact us directly. The application deadline is December 8, 2012.

Dr. Zackary Johnson zij@duke.edu http://-oceanography.ml.duke.edu/johnson/ –

Zackary Johnson Arthur P. Kaupe Assistant Professor of Molecular Biology Division of Marine Science and Conservation Nicholas School of the Environment Duke University 135 Marine Lab Rd., Beaufort, NC 28516 USA

http://oceanography.ml.duke.edu/johnson telephone: 1-252-504-7543 fax: 1-252-504-7648

zij@duke.edu

EastCarolinaU EvolutionaryBiol

GRADUATE STUDIES IN ECOLOGY AND EVOLUTION AT EAST CAROLINA UNIVERSITY

The graduate program in the Department of Biology at East Carolina University invites applications from prospective PhD and MS students for fall 2013. East Carolina University is the third largest campus in the University of NC system and has an active and well-supported group of faculty working in the areas of ecology and evolution. Currently, we have 72 MS students and 24 doctoral students enrolled in our graduate programs. Students accepted into the Interdisciplinary Doctoral Program in Biological Sciences will receive two years of support with no teaching obligations and at least five years of support total, at a very competitive level. TA-ships are readily available in our two MS programs and Biology faculty members also supervise students in ECU's Coastal Resource Management PhD program. Graduate students will be encouraged to participate in the North Carolina Center for Biodiversity (NCCB) at East Carolina University. Goals of the NCCB include training graduate students in biodiversity research and providing them opportunities to participate in related outreach.

Our students enjoy living in the affordable community of Greenville, NC, participating in seminar series and journal clubs that feature research in ecology and evolution, and having access to several natural areas, universities and research centers located in central and eastern NC. Our faculty members conduct research across the globe and excellent opportunities exist to work in terrestrial, freshwater, wetland and marine systems.

Application deadlines vary with particular programs but students applying early will have a greater chance of receiving financial support. Please visit http://-www.ecu.edu/biology/ to find out more about our department, faculty and graduate programs. In addition to visiting departmental and faculty websites, please contact prospective mentors directly or our director of graduate studies, Terry West (west@ecu.edu), for more information. We are happy to arrange visits for competitive prospective students and additional scholarship support may be available for the strongest applicants.

Departmental faculty with expertise in ecology and evolution include:

Marcelo Ardon: Aquatic ecosystem ecology and biogeochemistry. Chris Balakrishnan: Avian evolutionary and behavioral genomics. David Chalcraft: Population and community ecology; ecological aspects of biodiversity. Robert Christian: Coastal ecosystem ecology and network ecology. Lisa Clough: Marine benthic ecology (Arctic and Atlantic). Ashley Egan: Plant bioinformatics, evolutionary genomics and systematics. Carol Goodwillie: Plant mating system evolution, plant population ecology and genetics. Pat Harris: Fish ecology and life history, fisheries management. Jinling Huang: Evolutionary genomics and bioinformatics. Claudia Jolls: Plant evolutionary ecology and conservation. Dave Kimmel: Plankton ecology. Trip Lamb: Systematics and phylogeography. Joe Luczkovich: Food web ecology and fish bioacoustics. Krista McCoy (joining our faculty Jan. 2013): Ecological development and physiology. Mike McCoy: Quantitative population and community ecology. Jeff McKinnon: Sexual selection, speciation, mainly in fish. Sue McRae: Behavioral ecology and social evolution in birds. Anthony Overton: Larval fish ecology, fisheries biology. Enrique Reyes: Landscape ecology, ecological modeling, coastal management. Roger Rulifson: Fish ecology and fisheries. Matt Schrenk: Microbial ecology, geo-microbiology. Ed Stellwag: Vertebrate evo-devo and cis-regulatory network evolution. John Stiller: Molecular evolution and

comparative genomics. Kyle Summers: Evolution of color, behavior in poison frogs; evolutionarymedicine. Heather Vance-Chalcraft: Community ecology. Terry West: Human impacts on coastal ecosystems. Baohong Zhang: MicroRNA evolution, comparative genomics, and molecular genetics. Yong Zhu: Comparative evolution and molecular functions of hormones and receptors.

Jeffrey S. McKinnon, Professor and Chair Dep. of Biology, N108 Howell Science Complex East Carolina University Greenville, NC 27858-4353 Phone 252-328-5258; mckinnonj@ecu.edu http://www.ecu.edu/cs-cas/biology/mckinnon_jeff.cfm "McKinnon, Jeffrey" <MCKINNONJ@ecu.edu>

Edinburgh EvolutionVirulence Sociality

Hello,

I have just advertised a funded PhD position on Findaphd, deadline 18 Jan (funding for UK students only). (see http://www.findaphd.com/search/-ProjectDetails.aspx?PJID=3D40720&LID=3D455)

The advertisement focuses on the 'evolution of virulence' question, however I want to stress that the focus will be very much on the bacterial traits that underlie virulence, with a big emphasis on social, cooperative traits (expression of secreted virulence factors), and on plasticity (regulatory control of virulence factors). For more general info on what we do, see brown.bio.ed.ac.uk. Any questions, please email.

best wishes, Sam Brown

Findaphd advert: Molecular, ecological and evolutionary dynamics of bacterial virulence.

Bacterial pathogens are very often pathogens by accident - typically growing in distinct environments causing no harm to humans. The major challenge in this proposal is to further our understanding of virulence evolution in opportunistic pathogens, including commensal and environmental bacteria.

The evolution of virulence is a major focus in evolutionary biology, and has resulted in a large body of theory based on the assumption that virulence is a result of selection for virulence factors (VFs) that enhance within-host growth, survival or between-host transmission. While this theory has met with success for specialist pathogens (e.g. malaria), for many opportunistic pathogens these proposed countervailing growth/transmission benefits of VF expression are difficult to identify in hosts, casting a large body of theory into doubt.

To answer this challenge, our lab aims to develop and test novel theoretical frameworks for virulence dynamics across multiple environments, to capture the environmental and regulatory complexity of virulence in bacterial opportunistic pathogens and to identify novel and evolutionarily robust methods of pathogen control.

Opportunities for experimental and/or theoretical approaches exist in the lab. A general aim is to foster an integrative training spanning molecular microbiology, systems biology, ecology and evolution.

References:

Brown et al. 2012. Evolution of virulence in opportunistic pathogens: generalism, plasticity and control. Trends Microbiol. 20, 336-342

see http://www.findaphd.com/search/-ProjectDetails.aspx?PJID=3D40720&LID=3D455

Sam Brown Centre for Immunity, Infection and Evolution University of Edinburgh West Mains Road, Edinburgh EH9 3JT http://brown.bio.ed.ac.uk/ http://ciie.bio.ed.ac.uk/ sam.brown@ed.ac.uk

<sam.brown@ed.ac.uk>

sampaulbrown@gmail.com

FloridaIntlU EvolutionaryBiol

The Bracken-Grissom Lab at Florida International University in the Department of Biology and Marine Sciences Program is looking for highly motivated graduate students with an interest in evolutionary biology, marine invertebrates and molecular methods.

Research Interests

The Bracken-Grissom Lab is fundamentally interested in the evolution of marine invertebrates with an emphasis in decapod crustaceans. Specifically, our present research combines molecular, morphological and fossil evidence to gain insights into evolutionary relationships (phylogeny), biogeography, biodiversity, ecology, origins and diversification of crabs, lobsters and shrimp. As part of this research, we have been developing and applying novel methods for DNA sequenc-

ing using next-generation technology and directed sequencing. More recently, we have been exploring visual systems and structures involved in marine bioluminescence using deep-sea shrimp as model organisms. Present awarded grants propose to study the effects of the Deepwater Horizon Oil Spill on the Gulf of Mexico coastal and deep bank ecosystems. We are using gene expression studies and transcriptomics to assess the stress response of nearshore decapod crustaceans to increased oil exposure.

Qualifications

Applicants should have a background in evolutionary biology and molecular methods. Experience with invertebrate zoology, phylogenetics, systematics, next generation sequencing methods and/or bioinformatics is a plus. Students would ideally have a B.S. degree in Biology or related discipline. Student must be proficient in English (both spoken and written). Our work requires good organizational and computational skills and the ability to work collaboratively as part of a team. Occasional physically demanding fieldwork may also be required to support research.

Requirements

The Bracken-Grissom lab is looking for 2 graduate students to start in the Fall of 2013. PhD candidates are preferred but students interested in pursuing an MS degree are welcome to apply. If you are interested in applying for a graduate position in my lab, please send a letter of interest to hbracken@fiu.edu describing your research interests, career goals and rationale for pursuing a graduate degree along with a CV. Graduate students admitted to the program receive guaranteed funding from the Department for up to 4 years. Additional information on my labÕs research, the biology department, and marine sciences program can be found here: and http://-/heatherbracken.wix.com/brackengrissomlab, http://-biology.fiu.edu/ and www.fiu.edu/˜marine. More information on the application process and Graduate School at FIU can be found here http://gradschool.fiu.edu/. Application deadline Jan 15th 2013.

Contact Information

Heather Bracken-Grissom, PhD Assistant Professor Dept. of Biological Sciences Florida International University-Biscayne Bay Campus 3000 NE 151 Street, MSB-353 North Miami, Florida 33181, USA 305 919-4190 (Phone)

heather.bracken@gmail.com

Germany UFZHalle PopGenetics

We are inviting applications for a

PhD position (m/f) Code-digit 58/2012

available for 3 years within a DFG funded project aiming to assess the “Evolutionary potential in functional traits of a wetland macrophyte (Juncus effusus) relevant for natural degradation of contaminants”.

Aim of the project is an assessment of European wide distribution of molecular and quantitative genetic diversity in the study species. In particular, the project will focus on a critical ecosystem service of wetland ecosystems, namely the natural degradation of contaminants. The work will include (1) the use of transcriptom data in the framework of molecular popula-tion genetics to describe functional genetic diversity patterns and (2) classical experimental approaches, e.g. assessing quantitative traits in a common garden environment.

Applicants must hold a Master degree in biology, biochemistry or chemistry.

The ideal candidate is an evolutionary biologist with a strong interest in plants and a background in the analysis of molecular markers or quantitative population genetics. He/she combines organizational skills with strong personal responsibility, has a proven experience in statistics and is fluent in spoken and written English. The desire to engage in collaborative research is essential.

Scientific information can be provided by Dr. Stefan Michalski , phone: 0049-0345-5585310, E-mail: Stefan.Michalski@ufz.de

Interested?

Then submit an application to the Helmholtz Centre for Environmental Research – the inter-national centre of competence for environmental sciences and member of the largest scien-tific organisation in Germany, the Helmholtz Association.

The Helmholtz Centre for Environmental Research - UFZ is a research institution within the Helmholtz Association. It provides scientific contributions to the safeguarding of the natural basis of life and of human development potentialities for current and future generations under the challenges of global and climate < http://www.ufz.de/-index.php?en245&www_gloss[gloss_id]6#146 > change.

In this way the UFZ contributes towards a sustainable development.

The department of Community Ecology (BZF) of Helmholtz Centre for Environmental Re-search UFZ has a research focus on patterns and processes of biodiversity; biotic < http://www.ufz.de/-index.php?en245&www_gloss[gloss_id]3#143 > responses to environmental change, invasive species and macroecology. Results are published in the top international journals in the respective fields. The department provides an extensive sci-entific network both nationally and internationally and a young and highly collaborative re-search environment. The working group 'Molecular ecology and population genetics' offers an up-to-date and well equipped laboratory as well as a strong expertise in a variety of meth-ods.

The place of work is the Helmholtz Centre for Environmental Research, Halle (Saale), Germany. The anticipated starting date is December 1st, 2012. The successful candidates will participate in the Graduate School HIGRADE (http://www.ufz.de/index.php?en429).

Salary will be according to the appropriate civil service level TVÖD 13 (65%).

The UFZ is an equal opportunity employer. Women are explicitly encouraged to apply for increase their share in science and research. Physically handicapped persons will be favored if they are equally qualified.

Please send a complete CV including certificates, publication list, your contact information, referees, qualifications, background and reasons for applying, to the human resources de-partment at the Helmholtz Centre for Environmental Research, PO Box 500136, 04318 Leip-zig, Germany – UFZ, by 05 November 2012, citing the Code-Digit 58/2012. Applications can be emailed to: application@ufz.de. Applications can be written in German or English.

The Helmholtz Centre for Environmental Research GmbH (UFZ) is the first research institu-tion with EMAS certification. In order to promote sustainability, we ask you to send your ap-plication via email.

–

Dr. Stefan G. Michalski Dept. Biozönozeforschung/Community Ecology

Helmholtz-Zentrum für Umweltforschung GmbH - UFZ Helmholtz Centre for Environmental Research GmbH - UFZ Theodor-Lieser-Str. 4 / 06120 Halle (Saale) / Germany phone: +49-345-558 5310 fax: +49-345-558-5329 stefan.michalski@ufz.de / www.ufz.de Sitz der Gesellschaft: Leipzig Registergericht: Amtsgericht Leipzig, Handelsregister Nr. B 4703 Vorsitzender des Aufsichtsrats: MinDirig Wilfried Kraus Wissenschaftlicher Geschäftsführer: Prof. Dr. Georg Teutsch Administrativer Geschäftsführer: Dr. Andreas Schmidt

stefan.michalski@ufz.de

JustusLiebigU MolluscEvolution

PhD student position - biogeography and evolution of freshwater molluscs in Wallacea

A three year PhD student position is available at the Department of Animal Ecology and Systematics, Justus Liebig University as part of an international research project studying biogeographical processes in freshwater molluscs of the Wallacea region. It is a joint project with the Natural History Museum Berlin, Leibnitz Institute for Evolutionary and Biodiversity Research at the Humboldt University Berlin (Dr. Thomas von Rintelen) in close cooperation with our Indonesian partners (mainly from Bogor University). Funding is provided by the Deutsche Forschungsgemeinschaft (DFG). The salary is (65% TVL-13) according to the German system.

We are seeking a student with a MSc or equivalent degree in biology. The successful candidate should have experience with molecular systematics (DNA sequencing and/or microsatellite analyses) and should have a strong interest in biogeography and evolutionary biology. Good communication skills and the ability to work independently are mandatory. Fieldwork in South and Southeast Asia is possible but not essential.

We offer an intellectually stimulating research environment in a young and dynamic group and a department with well-equipped state-of- the-art lab facilities. A tight cooperation with one of the world's leading natural history museums is given.

To apply, please send an e-mail application including CV, names and addresses of two referees and a brief letter explaining why you are interested in this PhD position by October 25 to Christian Albrecht:

Christian.Albrecht@allzool.bio.uni-giessen.de.

Dr. Christian Albrecht

Department of Animal Ecology and Systematics Biodiversity and Systematics Group Justus Liebig University Giessen H.-Buff-Ring 26-32

D-35392 Giessen

Tel.: 0049-641-9935722

Fax.: 0049-641-9935709

E-mail: christian.albrecht@allzool.bio.uni-giessen.de

Internet: www.uni-giessen.de/wilke; www.wallacea.info Christian Albrecht <Christian.Albrecht@allzool.bio.uni-giessen.de>

London SocialInsect EvolutionaryGenomics

Dear colleagues,

I hope life is treating you well. I moved to Queen Mary University London earlier this year and am now recruiting a student for a 3-year PhD-studentship (application deadline November 16th).

Please forward to talented and highly motivated applicants who have strong programming skills (or the drive to acquire them) and an interest in molecular evolution/comparative genomics and/or social insects. The complete ad is here:

http://yannick.poulet.org/-antEvolutionaryGenomicsLondon.pdf Thanks & kind regards,

Yannick

Yannick Wurm - http://yannick.poulet.org Ants, Genomes & Evolution â y.wurm@qmul.ac.uk â skype:yannickwurm â +44 207 882 3049 5.03A Fogg â School of Biological & Chemical Sciences â Queen Mary, University of London â Mile End Road â E1 4NS London â UK

Yannick Wurm <y.wurm@qmul.ac.uk>

MasarykU CzechRepublic OrangutanConservation

PhD Position available at the Masaryk University in Brno.

Masaryk University, Brno, Czech Republic has openings for several students to conduct research on orangutan parasitic infections.

This is the first research project to investigate special behaviours and ecological conditions necessary to maintain health in wild orangutans. In addition, it is the only on-going and long-term orangutan health research project being conducted in the world at this time. This is partly due to the complexity of self-medicating behaviours of the orangutan and the astonishing variety of flora in the rainforest, as well as geographical and seasonal variations.

The primary focus of this research investigates how wild orangutans combat parasitic infections by the use of specific rainforest plant species. Main topics of research are:

1. Anti-parasitic properties of extracts isolated from Indonesian plants and their effect on selected parasitoses.

to develop comparable in vitro and in vivo systems suitable for studies on selected parasites

to test selected compounds for antiparasitic activity by means of applications of selected biological active compounds to both in vitro and in vivo systems

2. Orangutan parasite infections, including the effects of certain ecological factors

Possible field work may include sampling and data collection from several sites in Sumatra (Langkat and Aceh Tengara) and Kalimantan (Sebangau and Mawas area).

The PhD program usually consists of four years of coursework and supervised dissertation research. In addition, the faculty encourages students to conduct part of their dissertation research at partner institutions in other countries or to participate in collaborative research projects. All doctoral study programs at the Faculty of Science are accredited in both Czech and English languages; prospective students may thus apply in either language.

Candidate Requirements

Candidates are expected to have strong backgrounds in the fields of parasitology and animal population ecology, as well as sufficient English language skills (both spoken and written) to fully understand the study materials. Applicants are required to hold a corresponding master degree from a university, and be capable of working both independently and as part of a team.

Furthermore, the following skills are advantageous:

o Experience with parasite culturing techniques

o Experience with coprological methods

o Experience with molecular methods of isolation and PCR

o Experience with data analysis in community ecology,

statistical analysis of biological data and multivariate statistical methods

Applications

Please enclose a cover letter expressing motivation, Curriculum Vitae, and contact information for 3 references

For more information or for questions, please contact Dr. Ivona Foitova at: foitova@sci.muni.cz.

Erhan YALCINDAG

Post-doctoral research associate

Masaryk University Department of Botany and Zoology Kotlarska, 267 / 2 61137 Brno Czech Republic

ERHAN YALCINDAG <e_yalcindag@hotmail.com>

MasseyU PopGenomics

POPULATION GENOMICS AND VIRULENCE EVOLUTION

A Zespri-funded doctoral fellowship is available to study the kiwifruit canker pathogen Pseudomonas syringae pv. actinidiae at the New Zealand Institute for Advanced Study, Massey University, Auckland, New Zealand. The scholarship will cover tuition fees and provide a monthly stipend (for 3 years). Thee fellowship is open to all nationalities.

This is a tremendously exciting project that offers opportunity to work as part of a vibrant interdisciplinary team using a combination of population biology, whole-genome sequencing and genetics to understand the real-time evolution of the kiwifruit canker pathogen in both NZ and global contexts.

Applications are welcomed from outstanding individuals passionate about science. Hands on research experience (e.g., at MSc level) in microbiology, population genetics / genomics and or computational biology would be a distinct advantage.

Applicants should send a covering letter describing their research interests, a CV, and contact information for three referees to Vesna Davidovic-Alexander (v.davidovic-alexander@massey.ac.nz)

Closing date for applications: the position will remain open until filled. The project is already underway and the successful candidate will join the team as early as possible.

Interested students should contact Paul Rainey for further information (p.b.rainey@massey.ac.nz) http://evolution.massey.ac.nz/rainey Paul B Rainey <rainey@evolbio.mpg.de>

MaxPlanckInst InducedPlantDefenceEvolution

Department of Molecular Ecology in Max Plank Institute for Chemical Ecology is offering a PhD position on molecular basis of induced plant defence evolution.

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Plants have been threatened by insect herbivores for more than 350 million years. During their struggle for survival, plants have evolved many sophisticated anti-herbivore defence strategies, ranging from physical barriers to toxins and antifeedants. Because defence in plants is costly, induced defence was suggested have evolved as a means of reducing these costs. Induced defence is widespread in plants and its importance has been widely accepted by ecologists and biologists. However, how did induced defence evolve and what are the molecular basis are remain unknown.

In this project, we will take a multiple disciplinary approach, which combines tools in plant metabolomics, genomics, molecular biology, chemical ecology and molecular evolution in a systematic framework to investigate the evolution of herbivore induced plant defence and its molecular basis. The study system will be /Nicotiana attenuata, /an ecological model plant, initiates growth in a post-fire environment in response to water-soluble chemical cues in wood smoke, and evolved sophisticated herbivore induced defense strategies.

We are looking for a highly-motivated candidate with a solid background in plant evolution and genomics. Bioinformatics background and skills will be considered as a plus. The PhD fellowship is funded for three years. The position is available immediately and will remain open until filled.

Max Plank Institute for Chemical Ecology is one of the world's leading research institutes in chemical ecology and plant evolution, providing excellent research atmosphere and PhD training programs.

If you are interested in this position, please send us a CV, a statement of research interests, names and e-mail addresses of two referees to Dr. Shuqing Xu (sxu@ice.mpg.de).

The department and group information can be found here:

http://www.ice.mpg.de/ext/molecular-ecology.html
http://www.ice.mpg.de/ext/hopa.html?pers=-xush5212&d=itb&li=ice&pg=home

Project group leader

Dr. Shuqing Xu

Department of Molecular Ecology Max Planck Institute for Chemical Ecology Hans-Knöll-Straße 8 D-07745 Jena Germany

E-mail: sxu@ice.mpg.de Phone:+49 (0)3641 57 1129

sxu@ice.mpg.de

MaxPlanck Leipzig EvolutionaryBiol

We invite applications for the Leipzig School of Human Origins, a joint graduate program of the University of Leipzig (Germany) and the Max Planck Institute for Evolutionary Anthropology.

This program provides interdisciplinary training and research opportunities for university graduates who wish to work towards a Ph.D. in anthropology, biology, biochemistry, evolutionary genetics, primatology, paleoanthropology and related fields. Candidates apply for one of the following disciplines of the program:

1) Comparative Primatology - focusing on the evolution of social and cultural systems in the great apes, as well as other relevant mammals.

2) Evolutionary and Functional Genomics, Ancient DNA, Molecular Anthropology and Genome Bioinformatice

a. Evolutionary Genomics, Ancient DNA - focusing on the evolutionary and functional genomics of humans and the great apes, as well as the retrieval of DNA from palaeontological remains.

b. Molecular Anthropology - focusing on the origin, relationships, history, and migration patterns of human populations.

c. Genome Bioinformatics - focusing on computational approaches to the management and analysis of gene expression data.

3) Human Paleontology, Prehistoric Archaeology and Archaeological Science - focusing on the study of hominid fossils and archaeological sites. This includes comparative morphological as well as chemical (isotopic) analyses.

Graduate students will be accepted to only one of these areas but will have the opportunity to take part in courses and seminars in all of them. Our Ph.D. program is open for international students and is designed as a 3-year-program.

We invite applications from all countries. Applicants hold a Masters degree, a Diploma or equivalent in biology, biochemistry, anthropology, or related fields. It is not necessary to hold the degree at the point of application. However, you must have been awarded your degree prior to the start of the program in September.

Candidates have to be fluent in written and spoken English. German is not required but international students will be offered opportunities to take German language courses.

Ph.D. students are supported by fellowships which are provided either by the Max Planck Institute for Evolutionary Anthropology or the University of Leipzig; or have been obtained by the student.

Term of Appointment: Fall 2013 Application Deadline: January 31, 2013

Visit www.leipzig.de for information on living in Leipzig, Germany, in the center of Europe.

Contact Information:

Sandra Jacob Deutscher Platz 6 Leipzig, 04103, Germany Telephone Number: ++493413550122 Fax Number: ++493413550119 Website: www.leipzig-school.eva.mpg.de E-mail Address: leipzig-school@eva.mpg.de

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Sandra Jacob Max Planck Institute for Evolutionary Anthropology / The Leipzig School of Human Origins (Ph.D. Programme) Deutscher Platz 6, 04103 Leipzig, GERMANY phone: ++49 (0) 341 3550-122; fax: ++49 (0) 341 3550-119 http://www.eva.mpg.de/ http://www.leipzig-school.eva.mpg.de/

Sandra Jacob <jacob@eva.mpg.de>

MichiganTechU PlantEvolution

MS Graduate Assistantship available in Plant Evolutionary Ecology at Michigan Technological University.

I am seeking to recruit 1-2 graduate student (s) for a M.S. degree in plant evolutionary ecology. Students will have the opportunity to work on one of several research projects in the lab and to develop independent research projects (with guidance from Dr. Hersch-Green). Projects seek to (1) understand how gene (genome) duplication influences adaptation to biotic and abiotic factors in both field and molecular contexts, (2) examine shifts in multitrophic interactions, selection, and molecular evolution of ecologically important genes in invasive plant species in native and invasive ranges, or (3) disentangle taxonomic complexities with field and molecular studies.

Minimal qualifications include a background in evolutionary ecology (through coursework OR research positions) and a growing interest in the field. A strong academic record, evidence of excellent written and analytical skills, and enthusiasm for field and laboratory research will be highly favored.

Interested persons should contact Dr. Erika Hersch-Green by email (eherschg@mtu.edu), and include a CV and a statement of research interests that are in alignment with the labs interests (http://-www.bio.mtu.edu/ ˜ eherschg/). Suitable candidates will then be contacted for an interview to discuss projects and reference letters will be requested. Students invited to join the lab will need to submit a formal application to the graduate school at Michigan Technological University

Review of applications will begin immediately and continue until position(s) is filled. Start date is flexible and can be as early as January 2013.

Erika Hersch-Green

eherschg@mtu.edu

Erika Hersch-Green Department of Biological Sciences Michigan Technological University 1400 Townsend Drive Houghton, MI 49931 Office: 906-487-3351 Fax: 906-487-3167

Erika Hersch-Green <eherschg@mtu.edu>

MississippiStateU PlantEvolution

The Ervin, Wallace, and Welch Labs at Mississippi State University are looking for graduate students (M.S. and Ph.D.) interested in studying plant ecology, evolution, and/or systematics. This group has a record of attracting federal funding from the NSF, USGS, and EPA. This group uses a wide array of approaches ranging from field collection and experimentation, to molecular approaches including next-generation DNA sequencing and bioinformatics.

The Welch lab is currently studying adaptive evolution at the level of gene expression in sunflowers. Specifically, we are trying to understand the role that transcribed microsatellites may play in generating adaptive variation. Our approach combines population genetics, quantitative genetics, and functional genomics. We have also recently initiated collaborative work that is allowing us to study gene expression variation at microsatellite encoding loci at the interspecific level

Current research projects in Ervin's lab include development of landscape-scale species distribution models as means of evaluating current hypotheses about plant species invasions and projects related to general conservation ecology of plants in southeastern US ecosystems.

Current research projects in Wallace's lab include systematics of Acmispon (Fabaceae) and evolutionary ecology of legume-rhizobium relationships. Additionally, GRA funding is available to support students interested in herbarium curation and use of the collection for studies of Southeastern flora.

Funding for students may also be provided through teaching assistantships within the department. We are looking for students to start at any time in 2013. Information on Graduate Students in the Department of Biological Sciences is available at http://-biology.msstate.edu/degrees/graduate/

Please contact Gary Ervin (gervinATbiology-DOTmsstateDOTedu), Lisa Wallace (lisawallaceATbiologyDOTmsstateDOTedu), or Mark Welch (welchATbiologyDOTmsstateDOTedu) for more information. Also, a CV that includes information regarding prior education and research experience would be appreciated, along with a statement of students' specific research interests.

For more information about the Wallace, Ervin, and Welch Labs, please visit our websites: http://-/lw404.biology.msstate.edu/, http://garyervin.net/, http://markwelch.net/Welcome.html

Mark E. Welch, PhD Department of Biological Sciences Mississippi State University PO Box GY Mississippi State, MS 39762 http://markwelch.net/ welch@biology.msstate.edu

MonashU EvoDevo

PhD scholarship opportunity in Evolutionary Developmental Biology

Development and evolution of the vertebrate ilium

We are offering one three year PhD position at Monash University, Melbourne Australia to work on a developmental study of the elephant shark as a model for early jawed vertebrate evolution. The project will involve studying embryological processes and gene expression in the shark iliac process to establish its homology to that of other jawed vertebrates. It will contribute to a broad analysis of paired fin evolution including embryological and palaeontological studies. You will be involved in the capture and husbandry of Elephant sharks, invivo and invitro developmental techniques including immunofluorescent stainings and gene expression assays as well as three dimensional imaging and rendering. You will be based at the Australian Regenerative Medicine Institute at Monash University with access to excellent imaging and computational facilities and a network of leading developmental biologists. The PhD scholarship is AUD $23,728 per annum for up to three years but does not include international student fees. International students are invited to apply on the provision that they can cover international student fees for their entire candidature through scholarships or other means. Applicants who have been awarded an Australian Postgraduate Award or other competitively awarded scholarship will be eligible to receive a $5000 a year ARMI top up scholarship.

Applicants should be highly motivated, willing to undertake field work and excel in practical and academic skills. They should have at least a first class honours or Masters degree in Biology, preferably in developmental or evolutionary biology and be fluent in English.

Candidates should send a letter of application, a curriculum vitae, a transcript of study records, contact information for two academic referees, and a half-page summary of the Masters or Honours thesis to Catherine.Boisvert@monash.edu no later than October 23, 2012. Start of the project is planned for January 1, 2013.

For further information, please contact: Dr Catherine Boisvert Phone: +61 3 9902 9642 Email: Catherine.Boisvert@monash.edu Webpages: http://www.armi.org.au/About_Us/-Staff/Catherine_Anne_Boisvert.aspx https:/-/www.facebook.com/pages/Shark-Evo-Devo/-404426459604449 Dr Catherine Boisvert (MSc, PhD) Associate Researcher Peter Currie's Lab Australian Regenerative Medicine Institute Building 75, Monash University, Clayton Campus Wellington Road Clayton VIC 3800 Office: +61 (0)3 9902 9642 Lab: +61 (0)3 9902 9633 Fax.: +61 (0)3 9902 9729 http://www.armi.org.au Catherine Boisvert <catherine.boisvert@monash.edu>

NorthernIllinoisU EcolEvolBehavConserv

Graduate Opportunities at Northern Illinois University

The Ecology, Evolution, Behavior, and Conservation faculty in the Department of Biological Sciences at Northern Illinois University are seeking applicants to the department's M.S. and Ph.D. graduate programs for the 2013-2014 academic year. Research interests among the faculty are diverse and include community ecology, restoration ecology, conservation genetics, vertebrate and invertebrate evolution, plant phylogenetics, behavioral ecology, microbial ecology, and bioinformatics.

The EEBC faculty includes: -Nicholas A. Barber, community ecology, http://www.bios.niu.edu/barber/lab/-Barber_Lab/Home.html -Neil W. Blackstone, invertebrate evolutionary biology, http://www.bios.niu.edu/-blackstone/blackstone.shtml -Melvin R. Duvall, plant molecular phylogenetics, http://www.bios.niu.edu/-duvall/duvall.shtml -Holly P. Jones, restoration ecology, http://www.bios.niu.edu/jones/jones.shtml -Bethia H. King, insect behavioral ecology, http:/-/www.bios.niu.edu/bking/bking.shtml -Richard B. King, population genetics and conservation biology, http://www.bios.niu.edu/rking/rking.shtml -Virginia L. Naples, vertebrate paleontology, http://-www.bios.niu.edu/naples/naples.shtml -Karen E. Samonds, paleontology and paleobiogeography, http:/-/www.sadabe.org/Samonds/Index.html -Wesley D. Swingley, microbial ecology, http://www.bios.niu.edu/-swingley/swingley.shtml -Yanbin Yin, bioinformatics and evolutionary genomics, https://sites.google.com/-site/yinbioinfolab/home Details of the graduate program and application process are available at http:/-/www.bios.niu.edu/graduate_studies/index.shtml. The deadline for application materials is February 15, 2013.

However, prospective students should contact potential faculty advisors well in advance of applying to discuss research interests and relevant qualifications.

Northern Illinois University is a 25,000-student research university situated an hour from downtown Chicago in DeKalb, Illinois, a diverse community of 50,000 with a low cost of living. Regional research resources include The Field Museum, Burpee Museum of Natural History, TNC's Nachusa Grasslands, Morton Arboretum, Fermilab, Argonne National Laboratory, NIU's Lorado Taft campus, and numerous local county forest preserves and state parks.

Nick Barber Dept. of Biological Sciences Northern Illinois University nbarber@niu.edu

Office: MO414 Phone: (815) 753-7811

nbarber@niu.edu

NorthwesternU ChicagoGarden PlantConservation

Subject: Graduate program in plant biology and conservation at Northwestern University

PLANT BIOLOGY AND CONSERVATION

The Graduate Program in Plant Biology and Conservation is a joint program between Northwestern University (NU) and the Chicago Botanic Garden (CBG). Positions for both MS and PhD degrees are currently available for fall 2013. The program offers a unique opportunity to study ecology, evolution, and environmental issues at the interface of basic and applied plant science. Students apply to the programthrough Northwestern University and take their courses at both NU and CBG with faculty from both institutions. The state of the art Plant Conservation andScience Center at CBG is a tremendous resource for students, and the Chicago region provides an excellent community at the forefront of research in conservation and sustainability. Faculty research areas include:

Climate Change Conservation Genetics Crop Evolution and Diversity Invasion Biology Paleobotany, Paleoecology, and Paleoclimate Phylogenomics and Bioinformatics Plant Animal Interactions Plant Demography Plant Reproductive Ecology Plant and Fungal Systematics and Evolution Restoration Ecology Soil Ecology and Fungal Diversity

To learn more, contact the program director, Nyree Zerega (nzerega@chicagobotanic.org) or visit our websites: Graduate Program: http://-www.plantbiology.northwestern.edu/ Plant Science Center: http://www.chicagobotanic.org/research/-labs.php?expanddiv=plant_conservation Application deadlines: PhD: December 31, 2012 MS: February 15, 2013

nzerega@chicagobotanic.org

PennStateU InsectEvolution

Graduate Fellowships Insect Systematics and Evolution Pennsylvania State University

Multiple graduate opportunities are available for students interested in insect evolution, especially phylogenetics, descriptive taxonomy, comparative morphology, biodiversity informatics, evolutionary-developmental biology (evo-devo), and evolutionary genomics.

Students will be part of a highly integrative and energetic lab group, led by Drs. Andrew R. Deans, Heather M. Hines, and István Mikó and based, in part, at the Frost Entomological Museum. Current expertise focuses on Hymenoptera, but students interested in other arthropod groups will be considered. Research/travel stipends available.

PIs: http://deanslab.org/ (Deans; adeans@psu.edu) see also recent pubs: http://deanslab.org/-pubs/ http://bio.psu.edu/directory/hmh19 (Hines; hmh19@psu.edu)

Grad programs: http://ento.psu.edu/graduatestudents (Deans or Hines) http://bio.psu.edu/graduate-portal (Hines)

University: http://psu.edu Andrew R. Deans Department of Entomology Pennsylvania State University 501 ASI Building University Park, PA 16802 USA

Phone: +1 814 863 2863 FAX: +1 814 865 3048 skype: ardeans

adeans@gmail.com

QueenMaryU London EvolutionGeneExpression

Generously paid graduate student position in London, QMUL (c £30 000 /yr) starting before 2nd Dec 2012.

For international students (<12 months UK resident in last 3 years).

Project on interpreting gene expression data (both broad evolutionary questions and for predicting outcome of crop crosses)

Apply here - http://intercrossing.wikispaces.com/-Apply+here Part of an international EU funded project - http://intercrossing.wikispaces.com/-What+is+INTERCROSSING%3F
richard.alan.nichols@gmail.com

StockholmU EvolutionSocialBehaviour

PHD POSITION: "DOMESTICATION AND THE EVOLUTION OF SOCIAL BEHAVIOUR"

The position is available in Animal behaviour at the Department of Zoology, StockholmUniversity. Application Deadline: 20 November 2012.

**

Project description: Domestication of animals involves behavioural changes such as increased tolerance and less aggressiveness. Such changes will influence an animal's social relationships. By studying domesticated animals and their wild ancestors, we can increase our knowledge of the evolution of social behaviour. Studies of wolves and feral dogs show differences in both the intensity of territorial defense and the degree of aggressiveness within a pack, but the knowledge of how social behaviour and aggression develop during ontogeny is small. This project aims to increase our knowledge of the effects of domestication by studying two related species, a non-domesticated species (the wolf) and a domesticated species (the dog), primarily in relation to the ontogeny of variables relevant to social life and especially social dominance. Social behaviours during ontogeny will be studied during the juvenile period, including behavioural tests at different ages and physiological parameters. The project can provide important insights into how evolutionary changes in social behaviour can occur.

Qualifications: MSc or similar degree in animal behaviour or related disciplines, including at least 80 weeks (120 Swedish higher education credits) of biology studies, with a degree project in animal behaviour of at least 20 weeks (30 creditsat advanced level. Applicants who have acquired corresponding competence in Swedenor abroad are also qualified. Applicants will be assessed based on their documented knowledge in fields relevant to the research area, their creativity, independence and social competence, the quality of their degree project thesis and other publications, and the cover letter. Applicants with documented experience of behavioral studies will have an advantage in the selection process.

The position corresponds to four years fulltime work. A scholarship is available for the first year and a PhD employment for the following three years.

The application should include a one-page presentation (cover letter) of yourself and why you want to undertake a PhD within this project. The application should also include your CV, a copy of the thesis of your degree project, a copy of your diploma or degree certificate, and names and contact details (phone and e-mail) of two references. Please submit your application (stating the Ref. Nr. 02/12 HT) by 20 November 2012to: StockholmUniversity, Head of Department, Department of Zoology, SE-106 91 Stockholm, Sweden.**

**

For further information, contact Hans Temrin (e-mail: temrin@zoologi.su.se) or Olof Leimar (e-mail: olof.leimar@zoologi.su.se), Department of Zoology, StockholmUniversity.

Hans Temrin, Associate Professor Department of Zoology StockholmUniversity SE-106 91 Stockholm Sweden

hans.temrin@zoologi.su.se

StockholmU EvolutionaryEcology

PHD POSITION in evolutionary ecology at the Department of Botany, Stockholm University, Sweden

Project description: The project will investigate the environmental factors driving variation in phenotypic selection on timing of reproduction in iteroparous plants via interactions with antagonistic and mutualistic animals. An important part of the project is to assess the effects of interactions on lifetime fitness using demographic information, and to calculate estimates of selection based on lifetime fitness. The project will also use long-term data sets to estimate individual-specific

reaction norms between timing of reproduction and climate as well as selection on these reaction norms.

The project will initially focus on a model system consisting of a perennial plant (Lathyrus vernus), its' antagonists (large mammalian herbivores and predispersal seed predators) and mutualists (bumble-bee pollinators). The methods will consist of experiments in the field, common garden and greenhouse as well as correlational field studies. The analytical framework will consist of phenotypic selection analyses to link traits with fitness components and demographic analyses, such as integral projection models (IPMs), to link fitness components with lifetime fitness.

Qualifications: MSc or similar degree in ecology or related disciplines (at least 4 years education including a minimum of 10 weeks ecology courses). We seek a candidate with good knowledge of ecological and evolutionary theory, analytical capacity and good skills in English. Previous experience of field and or experimental work is desirable.

How to apply: Application should include (1) a letter stating why the applicant should be considered a strong candidate for the position, (2) a CV, (3) one copy of the master thesis (and other documents supporting your competence and suitability for the position), (4) names, with e-mail address and telephone numbers, of two reference persons, and (5) possible other documents that the applicant wants to be considered. You are welcome with your application, labeled with the reference number SU 461-32-2012, and it should be received no later than November 20, 2012, to: Department of Botany; Registrar Leila Ahonen; Stockholm University; SE-106 91 STOCKHOLM; SWEDEN, or by e-mail to: leila.ahonen@botan.su.se.

Johan Ehrlén Professor Plant Ecology Department of Botany Stockholm University SE 10691 Stockholm Sweden

email: ehrlen@botan.su.se phone: + 46 8 161202

Johan.Ehrlen@botan.su.se

SyracuseU PlantEvolution

Msc and PhD positions in Plant Evolutionary Biology beginning September 2013 are available in the Biology Department at Syracuse University. Our lab is using a combination of ecological and genomics approaches to address questions related to the evolution of reproductive transitions in plants. Our work focuses on understanding the enormous diversity in plant reproductive strategies by combining approaches in evolutionary ecology, population and ecological genetics and genomics. We are particularly interested in the role of adaptation and natural selection in driving reproductive transitions like changes in pollination systems (e.g. animal to wind), mating strategies (e.g. outcrossing to selfing, hermaphroditism to dioecy) and life-history transitions (e.g. perennial to annual). We use a variety of study systems to address these questions, including the seep monkeyflower (Mimulus guttatus), ragweed, meadow-rues, and sedges, and combine field work, greenhouse and growth chamber studies with genetic and genomic analyses.

We are looking for highly motivated graduate students, with a strong background in evolution and ecology. International students with high academic achievements will be considered. Syracuse University Biology has a strong and growing research faculty (http://biology.syr.edu/faculty/faculty.htm), as well as a diverse and interactive group of people interested in plant ecology and evolution (http://plantecology.syr.edu/). In addition, we share a campus with SUNY-College of Environmental Science and Forestry, providing lots of opportunity for interaction.

We offer a competitive and generous stipend as well as free tuition and excellent health insurance. We are located in a brand new state-of-the-art building with excellent facilities.

If you are interested, please email me (friedman@syr.edu) a statement of your research interests with your CV and the names and contact information for at least 2 references.

Jannice Friedman Assistant Professor Department of Biology Syracuse University 107 College Place Syracuse NY 13244 315.443.1564 friedman@syr.edu http://friedmanlab.syr.edu friedman@syr.edu

Tuebingen Germany 2 AncientPathogenGenomics

Reisekostenabrechnung Here the PhD:

SUMMARY:

The Paleogenetics group at the Faculty of Mathematics and Natural Sciences, Tübingen University, invites

applications for two PhD Student Positions 65% TVL-E13 for a period of 3 years, starting in January 2013 or later. We are looking for PhD students interested in the evolution and genetic reconstruction of pathogens from archaeological samples using next generation sequencing approaches.

FUNDING:

Positions are funded by the European Research Council (ERC) as part of a 5 year project with the title "Ancient Pathogen Genomics or re-emerging infectious disease" (APGREID).

JOB DESCRIPTION:

The PhD candidates will study the evolution of pathogen genomes from historical pandemics as well as host pathogen interactions throughout time. The primary focus will be the identification of causative agents of major human pandemics during human history, the reconstruction of complete pathogen genomes by applying next generation sequencing techniques and targeted ancient DNA enrichment strategies as well as comparative approaches to modern pathogen strains in a phylogenetic context. Mutation rates and divergence times of modern and historical pathogen strains will be obtained.

A second project will involve the reconstruction of immunity related genes from human host populations from time periods before, during and after major pandemics in order to get direct insights into host pathogen interactions over time. The research will focus primarily on bacterial and viral pathogens that continue to affect modern populations. . The position may involve fieldtrips in order to identify and sample skeletal remains from historical contexts all over Europe. Both positions are part of the same research project and will be directly supervised by the PI of the project Prof. Johannes Krause as well as three postdoctoral fellows. The working climate in the paleogenetics group is open with low hierarchical structures and involves brainstorming and interactions with all team members during weekly meetings and informal discussions.

QUALIFICATIONS:

Candidates must hold a Master's Degree in Biology, Medicine, Physical/Biological Anthropology, Bioarchaeology, Biochemistry, Bioinformatics or related disciplines. He or she should have a background in evolutionary biology or molecular biology and phylogenetics, a strong interest in working with next generation sequencing (NGS) data and ancient DNA. Some basic knowledge in general statistical analysis such as R as well as NGS analysis tools is a plus. Basic experience in a molecular biology laboratory is also required. We are seeking an individual with excellent verbal and written communication skills who is willing to co-operate with other research groups and with our international collaborators in Europe, North America and Asia.

Conditions of employment:

Salary and benefits are according to a public service position in Germany (65% TVH-E13). Tübingen University is an equal opportunity employer. Women and members of minority groups including disabled persons are strongly encouraged to apply. The contract is for three years and shall start Jan 1st, 2013 or as soon as possible thereafter. The workplace is in Tübingen, Germany, but may include field trips to sample skeletal material as well as visits with our collaboration partners in Canada and France for an extended period of several weeks. The Paleogenetics work group is part of the interdisciplinary Institute for Archaeological Sciences at the Faculty of Mathematics and Natural Sciences, with a strong focus of applying genetics to the field of archaeology. The work group has close contacts to the MPI for developmental Biology, the Bioinformatics department of Tübingen University as well as the Human Genetics department of the medical faculty in Tübingen.

START DATE:

There is a proposed start date of January 1st, 2013.

HOW to APPLY:

In order to be considered all eligible candidates must email the following

three items: (a) one page cover letter, (b) CV, and (c) three references

to johannes.krause@uni-tuebingen.de.

– Johannes Krause

Dr. rer. nat. Professor for Paleogenetics Institute of Archaeological Sciences(INA) Faculty of Mathematics and Natural Sciences

Eberhard-Karls University Tuebingen Ruemelinstr. 23 72070 Tuebingen Tel: +49 (0) 7071 29 74 089

Johannes Krause <johannes.krause@uni-tuebingen.de>

UAlabama InvasiveSpecies

Ph.D. Graduate Assistantship in Community Ecology at the University of Alabama

The Howeth Lab in the Department of Biological Sciences at the University of Alabama invites applications for a Ph.D. Graduate Assistantship in community ecology beginning Fall 2013. A highly motivated student is sought to collaborate on a project which aims to understand how metacommunity dynamics may affect the establishment, spread, and impact of non-native species, using freshwater zooplankton communities as a model system. The research will include observational studies of zooplankton communities in reservoirs across the United States, mesocosm experiments at the University of Alabama Tanglewood Biological Station, and population genetic/genomic analyses. Requirements: M.S. in Ecology and Evolution or related field with preference for candidates who have a background in freshwater ecosystems, experimental ecology, and/or evolutionary ecology. Interested students should send an e-mail to Dr. Jennifer Howeth (jghoweth@as.ua.edu) with "Ph.D. Graduate Assistantship" in the title, and include their CV, statement of research interests, writing sample, GRE scores (if known), unofficial copies of transcripts, and contact information for two references by December 10, 2012. Qualified applicants will be invited to apply to the Graduate School and the Department of Biological Sciences at the University of Alabama. The Department of Biological Sciences offers Graduate Teaching Assistantships and competitive fellowships to support admitted students.

Relevant Links: University of Alabama: www.ua.edu Department of Biological Sciences: http://bsc.ua.edu/ Howeth Laboratory: http://bsc.ua.edu/jennifer-howeth/ Center for Freshwater Studies: http://-as.ua.edu/cfs/ Tuscaloosa, Alabama is a vibrant university community with numerous cultural and recreational opportunities available. The newly constructed Tuscaloosa Amphitheater, located on the banks of the Black Warrior River and just minutes from the UA campus, brings a variety of shows and musicians to the city. Recreational activities such as canoeing and hiking are quite popular in the nearby Black Warrior and Sipsey River natural protected areas, and the Talladega National Forest.

The University of Alabama complies with applicable laws prohibiting discrimination on the basis of genetic information, race, color, religion, national origin, sex, sexual orientation, age, disability or veteran status in employment or in any program or activity offered by the University. For further information, contact the Office of Equal Opportunity Programs, 171 Rose Administration Building, Box 870300, Tuscaloosa, AL 35487-0300, 205-348-5855.

"Howeth, Jennifer" <jghoweth@as.ua.edu>

UAlberta HostParasiteEvolution

*MSc position - ecology and evolution of host-parasite associations. * A graduate research position is available in Dr. Lien Luong's research group (http:/-/www.biology.ualberta.ca/faculty/lien_luong/) at the University of Alberta. Students interested in the ecology and evolution of infectious diseases and/or parasite-host interactions are encouraged to apply.

Pathogenic organisms that are harmless under certain conditions can suddenly become extremely harmful under different circumstances. Indeed levels of parasitism vary continuously in nature, with some species shifting along a continuum from benign to pathogenic over ecological and evolutionary time. But even more fundamental to this issue is the process by which parasitism *per se* evolved. One of our goals is to investigate the life-history evolution of parasites that express variation in host exploitation strategies, and identify the selection pressures that lead to the transition to a parasitic lifestyle. Facultative parasites present a unique and interesting opportunity for addressing these questions because they regularly shift from free-living to parasitic lifestyles. The facultative ectoparasitic mite, *Macrocheles subbadius* feeds and reproduces on highly ephemeral habitats. However, mites become parasitic under certain circumstances by attaching to and feeding on *Drosophila *fruit fly hosts. The student will be involved in laboratory manipulation of ecological conditions to identify the factors that favour the transition to increased infectivity.

The Department of Biological Sciences at U of A is one of the largest and most scientifically diverse departments of its kind in Canada. We offer research-orientated, thesis-based graduate programs at both the MSc and PhD levels. Study programs are tailored individually to graduate student needs and emphasize interdisciplinary thinking. All students accepted into our MSc program have guaranteed funding for at least 2.3 years, at the rate of approximately $22,680/year. Teaching training is provided and is mandatory for all students on graduate teaching assistantships. With ~270 graduate students, >70 full-time faculty, excellent support facilities and ample research funding, a vibrant and exciting learning environment is provided. For more information about applying to the graduate program: http://www.biology.ualberta.ca/programs/-graduate/prospective/ Highly motivated and indepen-

dent students interested in developing their own research ideas are also encouraged to apply. If you know of an exceptional student who might be interested, please forward this information onto him/her. To apply, please send a brief (Â$\frac{1}{2}$ - 1 page) explanation of your research experience and interests, a copy of your curriculum vitae, and names and contact information for 3 references. Email the above as a single .pdf file to lluong@ualberta.ca. Review of applications will begin February 1, 2013. The ideal start date is September 2013. For more information, please contact:

Dr. Lien T. Luong Assistant Professor Department of Biological Sciences CW 405, Biological Sciences Bldg. University of Alberta Edmonton, AB T6G 2E9 Canada Email: lluong@ualberta.ca

Lien Luong <lluong@ualberta.ca>

UAuckland MarinePopulations

Beate Schuler Doctoral Scholarships in Marine Science - University of Auckland

Applications are invited for 2 Beate Schuler Scholarships in Marine Science at the University of Auckland. The scholarships consist of a stipend of NZ$25,000 per annum for 3 years, together with University of Auckland fees. A requirement of both scholarships is that the successful applicants work for a day every month in the Leigh Marine Discovery Centre. Applications for the Scholarship must be made on the application form available from the Scholarships Office or their website (http://www.auckland.ac.nz/-uoa/home/for/current-students/cs-scholarships-and-awards/cs-search-for-scholarships-and-awards?form=-details&detailCode=500634) and specify which of the projects the candidate is applying for. Closing date for applications is 1 November 2012. Prospective candidates are strongly encouraged to contact the main supervisor for any of the projects for more details.

Project:

Connectivity among marine communities: a multi-species approach to determining the major drivers of larval connection between populations of New Zealand coastal species

Supervisors:

Dr Shane Lavery (School of Biological Sciences/Leigh Marine Laboratory, s.lavery@auckland.ac.nz)

Assoc. Prof. Rachel Fewster (Dept of Statistics, r.fewster@auckland.ac.nz)

This project aims to undertake a combined analysis of existing and new genetic data sets to determine where common patterns of connectivity are found around the New Zealand coastline. This will be undertaken using both traditional genetic spatial analysis approaches, as well as exploring innovative approaches to analysing multi-species genetic data sets for common spatial patterns.

We are seeking a student with an undergraduate or MSc degree in biology and statistics. The successful candidate will ideally have some experience in molecular ecology techniques (DNA sequencing and/or microsatellite analyses) and have strong skills in bioinformatics and statistics. Depending on the skills of the successful candidate, fieldwork around New Zealand is possible.

Please contact Dr Shane Lavery (s.lavery@auckland.ac.nz) or Assoc. Prof. Rachel Fewster (r.fewster@auckland.ac.nz) for details, before making application through the University of Auckland by 1 November 2012.

Leigh Marine Laboratory http://-www.marine.auckland.ac.nz/uoa/home School of Biological Sciences http://www.sbs.auckland.ac.nz/-uoa/ Department of Statistics http://-www.stat.auckland.ac.nz/uoa/home University of Auckland Auckland New Zealand http://-www.auckland.ac.nz/uoa/ s.lavery@auckland.ac.nz

UBerne 2 GenomicDiversity

2 PhD positions: Effect of range expansions on functional genomic diversity

Two PhD positions will be available for 3 years at the University of Berne to investigate the effect of range expansions on non-neutral genomic diversity. Theoretical and simulation results suggest that spatially expanding populations should accumulate non-neutral mutations at a higher rate than stationary populations through the mechanism of gene surfing. The present research project aims at verifying these predictions in bacterias and in humans.

The first PhD student will perform and analyse the output of a series of experiments with bacterias, measure their fitness at various stages of their expansions and analyse the evolution of their genome by NGS. These

analyses will be done in collaboration with Prof. Martin Ackermann in ETH Zurich. The candidate is expected to have a good background in microbiology and a strong interest in evolution and population genomics.

The second PhD student will be involved in the analysis of full exomes of human individuals from a region of Québec known to have been recently colonized and where gene surfing has been evidenced (see http://www.sciencemag.org/content/334/-6059/1148.abstract). He/she should be also involved in the modeling and simulation of genomic regions under selection, and thus have a good background in population genomics or bioinformatics, and in statistics. Programming abilities (e.g. R, C++) will be a plus for this position.

The successful candidates will be able to further their education by following courses organized by Swiss inter-University doctoral programs in Population Genomics and Bioinformatics. Their salaries will follow the Swiss NSF scale. The CMPG lab offers a very stimulating research environment with access to a fully equipped wet lab, high performance computation facilities and it is affiliated to the Swiss Institute of Bioinformatics. Berne is ideally located in the middle of Switzerland and Europe, and provides rich cultural and outdoor activities.

Please send before November 1 2012, an application letter stating your motivation for one position, a CV, and contact information of two references to laurent.excoffier@iee.unibe.ch. Positions are expected to start in January 2013.

Prof. Laurent Excoffier

– Laurent Excoffier

Computational and Molecular Population Genetics (CMPG) Institute of Ecology and Evolution, University of Bern 6, Baltzerstrasse, CH-3012 Bern, Switzerland Tel: +41 31 631 30 31 Fax: +41 31 631 48 88 Email: laurent.excoffier@iee.unibe.ch http://cmpg.iee.unibe.ch Computational Population Genetics Swiss Institute of Bioinformatics (SIB) http://www.isb-sib.ch/groups/-Computational_Population_Genetics.htm Laurent Excoffier <laurent.excoffier@iee.unibe.ch>

UBielefeld BehaviouralEvolution

PhD position - University of Bielefeld - Social influences during adolescence on adult behaviour in zebra finches: endocrine mechanisms and functional consequences.

A three-year PhD position is available at the Department of Animal Behaviour, University of Bielefeld, for work on a project combining behavioural and endocrinological approaches to study effects of social environment during adolescence on adult behavioural and hormonal response to social challenges using the zebra finch (Taeniopygia guttata) as a model species.

Phenotypic plasticity is caused by the interplay of environment and genetic background. Early environment can predict future conditions which enables the organism flexibly to adjust its development accordingly. In a variety of species, social influences during adolescence can modify adult behaviour, physiology and morphology. However, we still know very little about the (hormonal) mechanisms and function of these effects. This project will look at hormonal profiles and behaviour of individuals experiencing different social environments during adolescence. We use hormonal manipulations to study their role in behaviour and the endocrine system in adult life. Finally, we will study the functional consequences of adult social behaviour by assessing fitness costs and benefits in different social settings during adulthood.

I am seeking a highly motivated and independent student who is interested in the hormonal mechanisms, development and function of social behaviour. The PhD project will require skills in the handling of birds and behavioural observations, invasive techniques (blood sampling, hormonal implants) and lab work, all of which may involve regular attendance during weekends.

The applicant ideally has experience with animal experimentation and observation as well as with lab techniques relating to the above. Excellent communication skills in English as well as experience in statistical analyses and scientific writing are a definite advantage. An MSc (or equivalent) in Biology is required.

My young and dynamic research group (http://-www.uni-bielefeld.de/biologie/vhf/NE/) is part of the Department of Animal Behaviour. We offer a stimulating international environment with research groups focusing on function, mechanisms and evolution of behaviour, using a variety of model systems in the lab and the field. We have excellent research infrastructure and supporting staff and the working language is English.

The project is funded by the German Research Foundation (DFG) and embedded in a larger research unit with several PhD projects at the University of Bielefeld and Münster studying the “Reduction of phenotypic plasticity in behaviour by early experience: functional

consequences of an adaptive mechanism" (http://-www.uni-bielefeld.de/(en)/biologie/fg1232/). The successful candidate will therefore benefit from additional scientific meetings, master classes and method workshops.

The PhD salary is set according to the regulations of public service in Germany (TV-L E13, 65%). The contract is for three years and shall start at the earliest in February 2013.

If you are interested, please send your application with a letter of motivation including a description of research interests, skills and experiences relevant to the project (no more than 2 pages), a detailed CV, a half-page summary of the master's thesis and contact information of two academic referees to Nikolaus von Engelhardt nikolaus.von.engelhardt@uni-bielefeld.de no later than November 18th 2012. Interviews are planned for mid-December. For further information, feel free to contact me under my e-mail address.

Dr. Nikolaus von Engelhardt

Department of Animal Behaviour Faculty of Biology University of Bielefeld Morgenbreede 45 33615 Bielefeld Germany

nvengelhardt@gmx.de

UBielefeld QuailBehaviouralEvolution

Social influences on quail behaviour and physiology over several generations and its genetic basis

PhD position - University of Bielefeld

Project title: Evolution of transgenerational effects: function and genetics of epigenetics

A three-year PhD position is available at the Department of Animal Behaviour, University of Bielefeld, for work on a project combining behaviour, endocrinology and genetics to better understand the evolution of transgenerational effects.

Phenotypic variation is determined to a large extent not only by the underlying genetic architecture, but also by epigenetic effects causing variation in gene expression. Variation in offspring phenotypes induced by hormone-mediated maternal effects are especially interesting since steroid hormones act as transcription factors, thereby directly affecting the epigenome. This can lead to heritable modifications across generations. However, the adaptive and evolutionary significance of transgenerational epigenetic effects is highly debated.

In this study we will investigate not only whether prenatal maternal effects prepare offspring in an optimal way for the future environment, but we will also analyse the underlying hormonal mechanisms and the heritability of these. We will breed Japanese Quail (Coturnix coturnix japonica) under different social settings and follow the progeny across several generations. By combining behavioural, endocrinological and gene expression measurements, we aim at enhancing our knowledge on the mechanisms and function of prenatal maternal effects.

We are seeking a highly motivated student who is fascinated by mechanisms underlying phenotypic plasticity and wants to embark on a long-term study. The main focus of the PhD project will be the behavioural aspects of this study, however, the candidate will be highly involved in both the endocrinological and genetic aspects as well. The work will include both handling and behavioural observations of captive quail as well as laboratory work to analyse tissue/blood samples for endocrinological and epigenetic data. Consequently the ideal applicant will have experience with animal experiments and lab techniques relating to the above. Excellent communication skills in English as well as experience in statistical analyses and scientific writing are a definite advantage. An MSc (or equivalent) in Biology is required.

Our young and dynamic research group is part of the Department of Animal Behaviour (http://www.uni-bielefeld.de/biologie/vhf/). We offer a stimulating international environment with research groups focusing on function, mechanisms and evolution of behaviour, using a variety of model systems in the lab and the field. We have excellent research infrastructure and supporting staff and the working language is English.

The project is financed by the Volkswagen Stiftung. (Announcement in German: http://www.volkswagenstiftung.de/-service/aktuelles/archiv/period/fileadmin/-g raphics/VWS.ico/article/145/evolutionsbi-2.html?L=0&cHashode36814c), The PhD salary is set according to the regulations of public service in Germany (TV-L E13, 65%). The contract is for three years and shall start February 2013 or soon thereafter.

If you are interested, please send your application with a letter of motivation including a description of research interests, skills and experiences relevant to the project (no more than 2 pages), a detailed CV, a half-page summary of your Master's thesis , and con-

tact information of two academic referees (all combined into a single PDF) to Vivian Goerlich-Jansson viviangoerlich@gmx.de and Nikolaus von Engelhardt nikolaus.von.engelhardt@uni-bielefeld.de no later than November 18th 2012. Interviews are planned for mid-December. For further information, feel free to contact us under our e-mail addresses.

Dr. Vivian Goerlich-Jansson & Dr. Nikolaus von Engelhardt

Department of Animal Behaviour Faculty of Biology University of Bielefeld Morgenbreede 45 33615 Bielefeld Germany

nvengelhardt@gmx.de

UBritishColumbia ConservGenomics

A PhD graduate assistantship is available in the laboratory of Dr. Michael Russello at The University of British Columbia (Okanagan Campus) in the area of population and conservation genomics starting September 2013. I am looking for a highly motivated graduate student to join our group studying fine-scale adaptive population divergence in a number of systems centering on vertebrate species of conservation concern. There are opportunities for both laboratory and field-based research, although all projects involve the use of high-throughout DNA-based methodologies. Individuals with a population genetics background, bioinformatics experience, and strong analytical skills are especially encouraged to apply. Prior experience with molecular laboratory techniques and working in a field setting are desirable.

For more information contact Michael Russello (michael.russello@ubc.ca) and visit the lab website (http://people.ok.ubc.ca/mirussel/). Additional information about our Biology graduate program at UBC can be found at the following website: http://web.ubc.ca/okanagan/biol/graduate.html Michael Russello Associate Professor Department of Biology University of British Columbia Okanagan Campus Kelowna, British Columbia Canada

michael.russello@ubc.ca http://people.ok.ubc.ca/mirussel/ michael.russello@ubc.ca

UCalifornia Irvine EvolutionaryBiology

GRADUATE POSITIONS IN THE DEPARTMENT OF ECOLOGY AND EVOLUTIONARY BIOLOGY AT THE UNIVERSITY OF CALIFORNIA, IRVINE

The Department of Ecology and Evolutionary Biology (EEB) at UC Irvine (UCI) welcomes applications from highly-motivated students to join our PhD program in the Fall of 2013. The department (http://ecoevo.bio.uci.edu/) consists of a large and dynamic faculty spanning a diverse array of research areas including informal research groups in Ecology and Evolutionary Ecology, Evolutionary Genetics, and Comparative Physiology (http://compphys.bio.uci.edu/Bio_Sci/Home.html).

The Ecology and Evolutionary Ecology group (http://plants.bio.uci.edu/=AD) is a diverse set of faculty working on plants, animals, and microbes in the areas of evolutionary ecology, conservation biology, biogeography, functional ecology, population and community ecology, biogeochemistry and ecosystem ecology. There is a focus on integrating modeling, theory, and experimentation as well as developing collaborations among the Evolutionary Genetics and Comparative Physiology groups. Cross campus connections with the Department of Earth System Science are especially strong. Exceptional facilities and resources for carrying out research or integrating research with decision makers are available through the UC Natural Reserve System (nrs.ucop.edu), the New Steele-Burn and Anza Borrego Desert Research Center (nrs.ucop.edu/reserves/anza-borrego/anza-borrego.htm), and the Center for Environmental Biology (www.uciceb.com). The Evolutionary Genetics group (http://evogen.bio.uci.edu/=AD) features a diverse faculty working in both model and non-model systems. Specific areas of research include experimental evolution, genomics (experimental and computational), molecular evolution, population genetics, quantitative genetics, and the evolution of infectious diseases. There are strong connections with other departments in the Biological Sciences, and with other programs on campus, particularly the UCI Center for Complex Biological Systems (http://ccbs.uci.edu) and the School of Information and Computer Science (http://www.ics.uci.edu).

The Comparative and Evolutionary Physiology group

(http://compphys.bio.uci.edu/) includes faculty with wide-ranging interests in biomechanics, behavior, sensory biology, physiology, and the integration of physiology with behavioral and ecological genomics.

For full consideration, complete applications should be received by January 1, 2013. We strongly encourage prospective applicants to contact faculty members as soon as possible to discuss their research interests. Financial support for graduate students comes from a variety of sources, including teaching assistantships, research assistantships, and fellowships. Outstanding applicants will be considered for the Francisco J. Ayala Fellowship http://www.bio.uci.edu/-grad_students/Ayala_Fellowship.html For more information, please see the department website at http:/-/ecoevo.bio.uci.edu. Admissions information may be found at http://ecoevo.bio.uci.edu/grad_program/-admissions/index.html .

Kevin Thornton Associate Professor Ecology and Evolutionary Biology University of California, Irvine http://www.molpopgen.org kevin.thornton.work@gmail.com

UCopenhagen Phylogeography

PhD Scholarship Phylogeography, Extinctions and Global Climate Change

Applications are invited for a PhD scholarship at the Center for Macroecology, Evolution and Climate, Department of Biology, University of Copenhagen, Denmark. The PhD candidate will be enrolled for a 3 year period starting between January 1 and March 1, 2013.

Research area and project description: This PhD project is part of a new Sapere Aude grant entitled "Species Extinctions Under Climate Change: Re-evaluating Extinction Risk" (EXTINCTIONs). EXTINCTIONs aims at assessing past and current population dynamics and extinction processes and how can this knowledge about the past help to better predict the future impacts of global change in biological diversity.

A significant aspect of the EXTINCTIONs will involve relating Species Distribution Models, SDMs, and paleoclimate simulations to population genetic/phylogeographic data to investigate the relationship between population size and geographic range size under climate change over evolutionary time-scales. The PhD student will contribute to this broader objective by investigating the spatial and temporal dynamics of genetic diversity and population structure for numerous species during the Late Quaternary. The goal of this PhD project will be to integrate phylogeographic inference with methods and theory from other ecological and evolutionary sub-disciplines (including macroecology) to understand population dynamics under historical climate change. Technically, the project will include conducting statistical phylogeographic and population genetic analyses, species distribution modeling, and GIS manipulation of species distribution and climatic data. To achieve this aim the Phd student will help, in collaboration with a bioinformatician, to compile a database of phylogeographic and population genetic data spanning different biomes and taxonomic groups from public databases such as GENBANK, NCBI and EMBL.

PhD supervisors: David Nogués-Bravo and Katharine Ann Marske

Qualifications and specific competences: Applicants must have a relevant master?s degree in ecology or evolutionary biology (with an emphasis on population genetics, phylogenetics or phylogeography) or have submitted their master thesis for assessment before the application deadline, as well as possess a good general background in natural history.

Additional minimum qualifications include experience using population genetic, phylogenetic or phylogeographic methods, ideally in spatially explicit frameworks. Some experience with Species Distribution Models and/or the R statistical environment would also be an advantage.

The successful candidate is expected to have strong skills in English and applicants must document this. The primary working language of the Center is English.

Place of Employment: The PhD student will be employed by the University of Copenhagen and will work at the Center for Macroecology, Evolution and Climate (CMEC), a Center of Excellence directly funded by the Danish National Research Foundation and comprising 40 researchers from 16 different countries working on multi-disciplinary research lines (http://-macroecology.ku.dk). CMEC is also part of the Section for Ecology and Evolution within the Department of Biology, a dynamic research environment containing two Centers of Excellence and with a successful track record of graduating Masters and PhD students and hosting postdoctoral researchers from all over Europe, North America and Asia. Within CMEC, the Phylogeography and Extinction Theme is a key area of research focus over the next few years.

Salary and conditions: Terms of appointment andbetween the Danish Ministry of Finance and the Danish Federation of Professional Associations (AC). The starting salary for candidates with an MSc degree will be a minimum of DKK 309.179 (about EUR 41.500) per year (April 2012 level) plus pension contribution DKK 42.243 with the possibility of salary negotiation. The PhD student will have ample funding for research stays within the international network of collaborators of CMEC and for attending conferences, meetings and workshops.

Contacts: Applicants seeking further information are invited to contact Associate Professor David Nogués-Bravo, phone +45 35321314, e-mail: dnogues@bio.ku.dk

Application Procedures: Applicants are requested to submit their application electronically including a cover letter which explains their motivation for the project, a curriculum vitae including contact information, qualifications, software experience and technical expertise, a list of publications, if any, one reference letter and the diploma and transcripts of grade. The deadline for applications is November 30, 2012.

An assessment committee will be appointed to evaluate the applications. The applicant will be notified of the composition of the committee. The final selection of a successful candidate will be made by the Head of

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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

UDenver SpongeEvoDevol

I would like to advertise that I have a PhD studentship available to study animal origins using sponges as an experimental system.

Scott Nichols' laboratory at the University of Denver is accepting applications from exceptional students interested in pursuing a PhD in evolutionary biology. We use sponges as an experimental system to address questions about genomic, cell and developmental innovations that may have influenced early animal evolution. In particular, a major focus of research in the lab is evolution of adhesion and polarity mechanisms in epithelial tissues. We are also interested in the evolution of developmental signaling pathways and their possible roles in sponges.

Interested applicants should contact Dr. Nichols directly prior to submitting an application. Successful candidates are guaranteed 5 years of support.

Link to the University of Denver, Department of Biological Sciences: http://www.du.edu/nsm/departments/-biologicalsciences/ Link to the Nichols lab homepage: www.nicholslab.wikidot.com Link to Nichols lab publications: http://nicholslab.wikidot.com/publications Scott A. Nichols, Ph.D. Assistant Professor Department of Biological Sciences University of Denver

email: sa.nichols321@gmail.com phone: 303-871-3830

lab: www.nicholslab.wikidot.com Scott Nichols <sa.nichols321@gmail.com>

UFlorida FungalEvolution

Position Announcement - Ph.D. Student in Fungal Ecology

The Smith Lab in the Department of Plant Pathology at the University of Florida is recruiting motivated graduate students for Fall 2013. We seek students who are broadly interested in fungal ecology, evolutionary biology, and symbiosis to study the biology of the Pecan Truffle (Tuber lyonii). Tuber lyonii is a common, edible truffle that forms symbiotic ectomycorrhizal associations with Carya illinoinensis (Pecan) and other angiosperms throughout the Southeastern USA. This commercially valuable species can fetch prices of $10-20 an ounce but up until now the biology of this species has been mostly unknown. For example: What is the population structure of Tuber lyonii? How does it disperse into pecan orchards? What soil and management factors may affect Tuber lyonii fruiting and govern competition with other ectomycorrhizal fungi? These are some of the many questions that the Pecan Truffle project is trying to answer. If you are passionate about fungi and/or ecology and would like to dig deep into truffle biology, please apply for this position. For more information, check these links:

http://plantpath.ifas.ufl.edu/faculty/-smith/faculty-smith.shtml http://-plantpath.ifas.ufl.edu/faculty/smith/-Smith%20et%20al%202012%20Pecan%20Truffle%20B&W.pdf We want someone with:

- A passion for biology and a BS (or MS) degree in biology or related subject

- A background that includes ecology, evolution, and/or fungal biology

- Strong written and spoken English language skills

- Appropriate GPA and GRE scores

- Laboratory experience in molecular biology techniques

- Strong organizational skills and the ability to complete projects

- A driver's license and the ability to drive a car

To find out more, send your curriculum vitae and a short statement of your interest in the position to Matthew Smith at trufflesmith@ufl.edu or call 352-273-2837

Application Deadline: 7 December 2012

Matthew E. Smith Assistant Professor Department of Plant Pathology University of Florida 2517 Fifield Hall Gainesville FL 32611-0680 352-273-2837

"Smith,Matthew" <trufflesmith@ufl.edu>

UGoettingen 2 PlantEvolution

The Department of Systematic Botany, Albrecht-von-Haller-Institute for Plant Sciences, Faculty of Biology and Psychology at the Georg-August-University Göttingen is looking to fill the position of

*PhD Position in Plant Evolutionary Biology **-**Apomixis*

EG 13 TV-L(65%) for three years, starting presumably at 1st April 2013 (plus/minus one month). The position will be financed by the DFG Project: "The ecology of geographical parthenogenesis in alpine plants".

The project aims at understanding the evolutionary enigma that asexual organisms have larger geographical distributions than their sexual relatives. The topic of the Thesis is to analyze reproductive and developmental biology of alpine apomictic plants under different environmental conditions in natural populations and with experimental approaches. The combination with ecological data and area modeling, conducted by cooperation partners at the University of Vienna, will elucidate the causality of the phenomenon.

We expect a Master's degree (or equivalent) in Biology and very good communication skills in English (oral and written). The applicant should have a deep interest in reproductive and developmental biology of flowering plants, experience and enthusiasm for microscopy, laboratory work, and cultivation of plants. We expect high motivation, creativity, a cooperative personality and integration into the research team.

We offer a PhD position for three years and moneys for consumables and travel, scientific research with a highly motivated, international team, fully equipped laboratories and research facilities in the Department. Our PhD program offers a comprehensive mentoring program, specific courses for plant developmental and reproductive biology, opportunities for conference presentations, research stays at other labs, optionally teaching, and further support for career development.

The University of Göttingen is an equal opportunities employer and places particular emphasis on fostering career opportunities for women. Qualified women are therefore strongly encouraged to apply as they are underrepresented in this field. Disabled persons with equivalent aptitude will be favoured.

Applications with CV, publication list and motivation letter should be sent as hardcopy and pdf until 30^th November 2012 to:

Prof. Elvira Hoerandl, Georg-August-Universität Göttingen, Albrecht-von-Haller-Institut, Abteilung Systematische Botanik,

Untere Karspuele 2, 37073 Goettingen, Email: elvira.hoerandl@biologie.uni-goettingen.de

We request that you send us copies of your application documents. We will destroy the documents after a holding period of five months. Application documents will only be returned to you if you provide a self-addressed adequately stamped envelope.

The Department of Systematic Botany, Albrecht-von-Haller-Institute for Plant Sciences, Faculty of Biology and Psychology at the Georg-August-University Göttingen is looking to fill the position of

PhD in Plant Evolutionary Biology: Hybrid speciation in willows

for four years, starting between 1st January and 1st March 2013, supported by the Hofmann-Donation of the University of Goettingen, by Departmental resources and by the Global Change Program of the Austrian Academy of Sciences.

The project aims at understanding the evolutionary

dynamics of willow populations (Salix**L.) on alpine glacier fore fields in the Alps. The aim of the Thesis is to analyze population genetic structure, fitness and reproductive barriers of hybrids compared to the parental species to test the hypothesis that hybrids undergo potentially saltational speciation.

We expect a Master's degree (or equivalent) in Biology and very good communication skills in English (oral and written) and fluent German. The applicant should be interested in population genetics and reproductive biology of flowering plants. She/he should be qualified to conduct molecular laboratory work, experimental field work and traveling in the Alps. We expect high motivation, creativity, enthusiasm, a cooperative personality and integration into an international research team.

We offer financial support for four years (c. 1200,– EURper month), moneys for consumables and travel, scientific research with a highly motivated, international team, fully equipped laboratories and research facilities in the Department. Our PhD program offers a comprehensive mentoring program, specific courses for plant developmental and reproductive biology, opportunities for conference presentations, research stays at other labs, and further support for career development. The applicant is expected to contribute to the teaching program of the Department.

The University of Göttingen is an equal opportunities employer and places particular emphasis on fostering career opportunities for women. Qualified women are therefore strongly encouraged to apply as they are

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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

UHongKong OrchidConservationGenetics

A fully funded PhD studentship is available for the study ofpopulationgenetic structure and gene flow in the endangered orchid Bulbophyllum bicolor at the University of Hong Kong, in collaboration with Kadoorie Farm and Botanic Garden, Hong Kong.

Bulbophyllum bicolor is a putative endemic orchid of Hong Kong and one of the ten priority species for conservation.Research into its reproductive biology, demography and habitat specificity is underway. We now seek a high calibre student to undertake complementary studies to elucidate the species colonisation history, spatial genetic structure and capacity for gene flow within and between populations in Hong Kong,and with plants potentially referable to the same species elsewhere in the region. This work will contribute to the synthesis of a Species Action Plan as a model for species-focused conservation in Hong Kong.

Prospective students with a background in conservation biology or population genetics are encouraged to apply. A strong academic record, evidence of excellent writing and analytical skills, as well as enthusiasm for field and laboratory research will be a plus.

The PhD studentship includes a monthly salary of no less than HK$13,600,travel insurance and research support forfour years. To apply, send application materials, including a cover letter and copies of academic transcripts, resume and contact information for 3 references to gfischer@kfbg.org. Review of applications will begin immediately and continue until the position is filled.

Dr. Gunter Fischer Head of Flora Conservation Department Kadoorie Farm & Botanic Garden Corporation Lam Kam Road, Tai Po, New Territories, Hong Kong SAR Email: gfischer@kfbg.org

meihk@yahoo.com

UHouston EcologyEvolution

GRADUATE OPPORTUNITIES IN ECOLOGY AND EVOLUTIONARY BIOLOGY

The Department of Biology and Biochemistry at the University of Houston (UH) welcomes applications for its graduate program in Evolutionary Biology and Ecology for Fall 2013. The following faculty in the area of Evolutionary Biology and Ecology have opportunities available for their labs:

Blaine Cole (bcole@uh.edu) - Evolution and social behavior Dan Graur (dgraur@uh.edu) - Evolutionary bioinformatics Dan Wells (dwells@uh.edu) - Evolution of development and behavior Diane Wiernasz (dwiernasz@uh.edu) - Sexual selection Elizabeth Ostrowski (eaostrowski@uh.edu) - Population genomics and social evolution George Fox (fox@uh.edu) - Experimental evolution and origin of life Gregg Ro-

man (gwroman@uh.edu) - Evolution of behavior Nat Holland (jnhollandiii@gmail.com) - Ecology and evolution of species interactions Rebecca Zufall (rzufall@uh.edu) - Evolutionary genetics Ricardo Azevedo (razevedo@uh.edu) - Evolutionary genetics Steve Pennings (spennings@uh.edu) - Community ecology Tim Cooper (tcooper@central.uh.edu) - Experimental evolution Tony Frankino (wafranki@central.uh.edu) - Evolution of complex traits Yuriy Fofanov (yfofanov@bioinfo.uh.edu) - Evolutionary bioinformatics

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

http://www.bchs.uh.edu/graduate/prospective-students/index.php The deadline for application of prospective students is February 1st, 2012.

Ricardo B. R. Azevedo, PhD Associate Chair for Graduate Affairs Dept. Biology & Biochemistry University of Houston 369 Science & Research 2 Houston, TX 77204-5001 Tel: 713-743 4149 Fax: 713-743 2636 Email: razevedo@uh.edu

razevedo@Central.UH.EDU

UIllinois AquaticFungiGenetics

The Dalling and Heath labs at the University of Illinois at Urbana-Champaign seek applicants for a graduate research position through either the Program in Ecology, Evolution and Conservation (http://-/sib.illinois.edu/peec/) or the Department of Plant Biology grad program (http://www.life.illinois.edu/-plantbio/graduateAdmissions.htm). Students interested in ecology, genetics, and evolution of microbial communities are encouraged to apply! In a new project entitled, "Community assembly and decomposer function of aquatic fungi along a salinity gradient", which was recently funded by the National Science Foundation, we will study the processes that determine the assembly of wood decomposer communities in freshwater-estuarine river systems in Coiba Island National Park on the Pacific coast of Panama. This project will provide unique, cross-disciplinary training in tropical ecology, metagenomics, bioinformatics, microbiology, and fungal taxonomy. Students will also have the opportunity to apply to a recently-funded NSF IGERT (graduate training grant: http://sib.illinois.edu/igert/index.php), which is focused on integrating genomic data with organismal biology. Interested applicants should contact one of the PIs: Astrid Ferrer (aferrer@life.illinois.edu), Jim Dalling (dallingj@life.illinois.edu), or Katy Heath (kheath@life.illinois.edu) for more information.

kheath@life.illinois.edu

UIllinois FishEvolution

Two graduate research positions are available in the laboratory of Dr. Becky Fuller (http://-www.life.illinois.edu/fuller/) at the University of Illinois. Students interested in evolution and ecology of fishes are encouraged to apply.

Our lab has two main research themes. The first research theme focuses on the evolution of color pattern and color vision and how this varies with environmental conditions. This line of research includes questions about (a) the origins of female mating preferences, (b) the maintenance of genetic variation in male color patterns within populations, (c) the significance of population differentiation in phenotypic plasticity in color pattern, visual traits, and mating traits, and (d) the scale of temporal and spatial variation in lighting conditions and its effects on color pattern and color vision. Our most recent work involves developing models of visual detectability to determine how different species perceive color patterns in different environments. Our second research theme focuses on speciation and the extent to which it is driven by natural selection to different environmental conditions. This includes questions about (a) whether reinforcement or adaptation to different abiotic conditions (namely salinity) is important for the evolution of behavioral isolation, (b) whether postzygotic isolation evolves more rapidly for taxa that inhabit radically different environments, and (c) whether genomic rearrangements contribute to the evolution of reproductive isolation. Our most recent work here involves measuring QTL for reproductive isolation and examining genomic divergence between freshwater and saltwater populations/species of killifish. Students with interest/experience in genomics are welcome to apply.

Students in the Fuller lab have worked on a variety of fishes including killifishes in the genus Lucania, topminnows, and darters. Students are welcome to develop their own research projects independent of the main lab projects, but students may also collaborate on aspects of the main lab projects that are of interest to them. Students may apply either through the Program in Ecology, Evolution, and Conserva-

tion Biology (http://sib.illinois.edu/peec/index.html) or through the Department of Animal Biology (http://www.life.illinois.edu/animalbiology/). Students with interests in genomics may be eligible for funding via a recently awarded IGERT that emphasizes the vertical integration from genomes to individuals to species and ecosystems (http://sib.illinois.edu/igert/apply.html).

PhD candidates are preferred but students interested in pursuing an MS degree are welcome to apply. If you are interested in applying for a graduate position in my lab, please send a letter of interest to fuller@life.uiuc.edu describing your research interests, career goals and rationale for pursuing a graduate degree along with a CV.

Contact Information

Becky Fuller Associate Professor University of Illinois 606 E. Healey Avenue Champaign, IL 61820 phone: 217 333 9065

fuller@life.illinois.edu

ULausanne EvolutionCooperativeBehaviour

One available phd position: Partner Control/ Game theory /Cooperation/Social Network

A 3 year phd position is available, for theoretical research in a joint project of the Institute of Biology at the University of Neuchâtel and the Department of Ecology and Evolution of the University of Lausanne, the latter providing the actual working location (http://www.unil.ch/dee). It is funded by a project of the Swiss National Science Foundation aiming at investigating the evolution of various partner control mechanisms in the context of cooperative interactions.

The project will be supervised by Redouan Bshary (an empirical biologist at Neuchâtel) and Laurent Lehmann (a theoretical biologist at Lausanne) and aims at studying a number of questions from a theoretical point of view. How should an individual respond to a non-cooperative partner? Should the partner be punished or should one switch partner? How does partner switching depend on the variation of the expressions of cooperation in the population? Does it depend on the within-group network of interactions? A key aspect of the modeling will be that assumptions regarding population structure and interaction patterns will be informed by natural model systems such as vervet monkeys and cleaner fish mutualism.

Applicants should have a master degree in a relevant area (e.g. behavioural ecology, evolutionary biology, economics with focus on game theory, physics, or mathematics), with strong mathematical and computing skills, and a vivid interest in fundamental research.

Inquiries and applications should be sent to laurent.lehmann@unil.ch or redouan.bshary@unine.ch. Applications should be sent by November 1st, and should include a CV, a one-page statement of research interests, and names of 2-3 referees. Only applications with all these information will be considered.

Laurent Lehmann <laurent.lehmann@unil.ch>

ULausanne SexChromosomeEvolution

A PhD position is available at the Department of Ecology and Evolution, University of Lausanne, to do modeling work on the evolution of sex chromosomes.

Classical models (e.g. Ohno 1967) account for the progressive degeneration of sex chromosomes from an ancestral autosomal pair, over long evolutionary times (as documented e.g. in mammals). However, the view is now emerging that sex determination systems are often much more dynamic and labile. In many groups, sex chromosomes show no decay, due to a combination of high turnover rate and occasional X-Y recombination.

The ultimate causes and evolutionary consequences of such lability remain poorly understood. Using individual-based simulations, we are investigating how the interplay between sex-determination genes, sexually antagonistic genes, recombination modifiers and deleterious mutation load affect sex-chromosome evolution (see relevant papers below). The project will be supervised by Nicolas Perrin in collaboration with Jerome Goudet and Samuel Neuenschwander. The ideal candidate should have a solid background in evolutionary biology and population genetics, interest in theory, and good modeling skills. English is compulsory, French is helpful for social life.

Application: send by e-mail a CV, motivation letter, and names of three referees to Nicolas.Perrin@unil.ch before November 10, 2012.

Starting date to be discussed depending on the situation of the candidate chosen. The Department of Ecology and Evolution provides a very stimulating research environment, with an active program of seminars

and discussion groups (http://www.unil.ch/dee/). Situated in the French-speaking part of Switzerland, on the shore of Lake Geneva, Lausanne is an attractive city with a high quality of life. The city is surrounded by beautiful mountain environments- an excellent area for outdoor activities. See http://www.lausanne.ch/-

Blaser O, Grossen C, Neuenschwander S, Perrin N. 2012. Sex chromosome turnover induced by deleterious mutation load. Evolution. DOI: 10.1111/j.1558-5646.2012.01810.x

Grossen C, Neuenschwander S, Perrin N. 2012. The balanced-lethal system of crested newts: A ghost of sex chromosomes past? American Naturalist. In Press

Grossen C, Neuenschwander S, Perrin N. 2012. The evolution of XY-recombination: Sexually antagonistic selection versus deleterious mutation load. Evolution. DOI: 10.1111/j.1558-5646.2012.01661.x

Guerrero R, Kirkpatrick M, Perrin N, 2012. Cryptic recombination in the ever-young sex chromosomes of Hylid frogs. Journal of Evolutionary Biology. DOI: 10.1111/j.1420-9101.2012.02591.x

Blaser O, Neuenschwander S, Perrin N, 2011. On the maintenance of sex-chromosome polymorphism by sex-antagonistic selection. American Naturalist 178(4) pp. 515-524.

Grossen C., Neuenschwander S., Perrin N., 2011. Temperature-dependent turnovers in sex-determination mechanisms: a quantitative model. Evolution 65(1) pp. 64-78.

Nicolas Perrin <Nicolas.Perrin@unil.ch>

UManchester EvolutionSexualImprinting

4-year PhD studentship available at the University of Manchester

Would you like to be part of a multi-disciplinary project bringing together the fields of ecology, evolution, computer science and control theory?

Title: The evolution of sexual imprinting behaviour

Anticipated start date: September of 2013.

Closing date for applications: December 7th, 2012.

Description: Why do individuals choose the mates they choose? In many species, including humans, mate choice depends in part on sexual imprinting. Sexual imprinting is a process by which individuals learn preferences for mates with certain phenotypes by observing other members of their populations. Different populations, and different sexes within populations, exhibit different sexual imprinting strategies. Sexual imprinting is an important component of animal behaviour, and it helps to shape how phenotypes evolve and if and when speciation occurs. However, how sexual imprinting itself evolves, and why strategies differ between populations and sexes, remains poorly understood.

The goal of this project is to develop a synthetic theory for the evolution of sexual imprinting. With guidance from Drs. Tucker Gilman and Eva Navarro-López at the University of Manchester, the student who undertakes this project will develop analytical models and agent-based computational simulations to understand when sexual imprinting should evolve and what imprinting strategies we should expect to see in nature. Research will consider how evolved imprinting strategies can affect trait evolution in environments in which selective pressures are heterogeneous in space and time. In the third year of the studentship, the student will spend six months in the lab of Prof. Erik Svensson at Lund University, where he or she will gain experience with experimental approaches to the study of sexual imprinting, as well as professional experience working with international collaborators.

Training will include classical methods in biology (e.g., population genetics, adaptive dynamics) and hybrid systems modelling - a nascent area of research that merges computer science, control engineering and dynamical systems analysis. The student will gain empirical experience and professional experience with international collaborators in the lab of Erik Svensson at Lund University.

Candidates should: - be interested in using mathematical models to understand evolutionary processes; - have a background in biology, or a willingness to acquire such a background; - have a sound mathematical background; - have good verbal and written communication skills, good interpersonal skills, and a collaborative attitude.

The ideal candidate will also: - have experience with dynamical systems analysis; - have experience with mathematical models, and with mathematical and computational tools required to carry out the project; - have experience in programming;

Applicants with multi-disciplinary backgrounds are especially welcome.

Funding available and eligibility: The studentship provides tuition fees and a stipend (£13,590 per year, tax

free) to cover living expenses for 4 years for eligible UK students. Students from the EU but outside the UK are eligible for tuition and fees, but a stipend cannot be guaranteed to non-UK students. A small amount of travel funding is attached to the studentship. Students from outside the EU will be considered, but must have their own funding source.

Contact for further information: Dr. Tucker Gilman (tucker.gilman@manchester.ac.uk), Dr. Eva Navarro-López (eva.navarro@cs.man.ac.uk), Prof. Erik Svensson (Erik.Svensson@biol.lu.se)

For further information about our research, please, visit the webpages: Gilman: http://-www.nimbios.org/personnel/pd_Gilman=0ANavarro: http://www.cs.man.ac.uk/~navarroe/ Svensson: http://www4.lu.se/o.o.i.s/26007 How to apply: Potential applicants should send an email message to Tucker Gilman (tucker.gilman@manchester.ac.uk), including - A cover letter - A curriculum vitae - A brief description of the applicant's background - A brief description of current work or interests - Some representative work (if available)

tucker.gilman@manchester.ac.uk

UMontana EvolutionaryGenetics

The Good lab at the University of Montana in Missoula is looking to recruit multiple Ph.D. students interested in evolutionary genetics.

Current research projects in the lab are focused on the genetic basis of reproductive isolation, molecular evolution, hybridization in natural populations, and adaptation to seasonally changing environments. These topics are addressed using diverse approaches including population genomics, transcriptomics, and quantitative genetics. Most lab projects will involve the generation and analysis of large-scale genomic datasets, and so candidates with strong interests in genomics are encouraged to apply.

The University of Montana is home to a strong collection of faculty researching ecology and evolution. The Division of Biological Sciences hosts an excellent graduate program in Organismal Biology and Ecology (OBE) with an emphasis on interdisciplinary training in evolution, genetics, ecology, physiology, and behavior. Missoula is a great college town in the heart of the Northern Rocky Mountains.

For more information on the Good lab please visit the lab website:

http://good-lab.dbs.umt.edu Interested students are encouraged to email Dr. Good. Please include a brief description of your research interests and a CV in your email. Note that applications for Fall 2013 admission to the OBE program must be submitted by January 10th.

jeffrey.good@mso.umt.edu

UNebraska Lincoln BeetleAdaptation

We are seeking to recruit a PhD student to work on the basis of an emerging adaptation of a beetle, Diabrotica virgifera virgifera, to certain types of transgenic corn. Diabrotica virgifera virgifera is the most destructive pest of corn in North America. During the past decade, transgenic corn varieties that produce insecticidal proteins have become a popular method of controlling the insect. Populations of D. v. virgifera that have evolved resistance to some of these corn varieties were reported for the first time in 2011.

The student will be supervised by Dr Nick Miller and Dr Blair Siegfried, Department of Entomology, University of Nebraska-Lincoln. the project will be primarily lab-based but some field work is also possible. There will be significant opportunities to gain experience with next-generation sequencing data.

Applicants should send a CV and contact details of two referees to Nick Miller (nick.miller@unl.edu) or Blair Siegfried (bsiegfried1@unl.edu).

nick.miller@unl.edu

UNeuchatel HostParasiteEvolution

A 3-year PhD position, funded by the Swiss National Science Foundation for research on the evolutionary ecology of host-parasite interactions is available in the group of Jacob Koella at the University of Neuchâtel from February 1, 2013 (with some flexibility).

The general goal of my group is to integrate evolution-

ary and ecological thinking into the epidemiology and control of infectious diseases. We develop the theoretical basis of this integration and test empirically assumptions and predictions of the theory, using malaria, microsporidians and their mosquito hosts as experimental systems.

The PhD-project will integrate resource ecology with the within-host dynamics of parasite to obtain a better picture of the evolution of the host-parasite interaction. This approach explicitly takes into account a fundamental, yet largely neglected, aspect of parasites: that they steal resources from their host to support their own development. Resource ecology thus gives a mechanistic basis of the host's and the parasite's development, and thereby brings theory in closer contact with experimental observations, leading to a more realistic description of the host-parasite interaction. The experimental system will be the microsporidian *Vavraia culicis* and its host, the mosquito *Aedes aegypti*.

The PhD student will collaborate with a post-doc hired on the same grant to integrate the theoretical and experimental approaches of the project. The specific work can be purely experimental, purely theoretical, or a mixture of the two; the balance depends on the PhD student's interests.

The position requires an independent, enthusiastic, and scientifically curious person with a strong background in evolutionary biology and an interest in parasitology. Good knowledge of evolutionary theory is an advantage, but not a prerequisite. An MSc (or equivalent) in Biology is required. The positions require some teaching of undergraduate and graduate biology labs. The generous salary is in accordance with the standards of the Swiss National Science Foundation.

Neuchâtel is located in the French part of Switzerland and is an attractive city with a high quality of life. The city is located on the shore of Lake Neuchâtel with the Jura Mountains to the North and a view of the Bernese Alps to the South. For outdoors enthusiasts, this is an excellent area for outdoor activities such as hiking, climbing or skiing.

Formal applications should include: a 1-2 page cover letter (in English) indicating research interests, your CV, and two letters of reference. Application deadline is November 18, 2012. Applications and informal enquiries must be submitted by email to: jkoella@gmail.com

Jacob Koella

Institut de Biologie Université de Neuchâtel rue Emile-Argand 11 2000 Neuchâtel Switzerland

jkoella@gmail.com

UNewMexico PlantEvolEcol

Ph.D. Students Wanted!Ecology and evolution of plants and plant-animal interactions

My lab is broadly interested in the ecology and evolution of plants and their communities, often focusing on plant-animal interactions such as herbivory, seed predation, and seed dispersal.We use a combination of field, greenhouse, phylogenetic, experimental evolution, and molecular genetic approaches.Students are expected to develop their own independent projects, but will also have opportunities to collaborate on NSF-funded investigations of hybridization in wild sunflowers and the role of genetic diversity in invasions.The lab is also starting new projects in desert and alpine ecosystems at the Sevilleta National Wildlife Refuge and the Rocky Mountain Biological Lab.Students will be a part of a dynamic group of plant biology, ecology, and evolution researchers at UNM.

For more info please contact me (and send along a CV):

Ken Whitney

Department of Biology

University of New Mexico

Website: http://biology.unm.edu/whitney/index.htm
Email: whitneyk@unm.edu

Ken Whitney <whitneyk@unm.edu>

UNewSouthWales EvolutionParentalEffects

PhD scholarship in the Bonduriansky lab

A stipend-scholarship is available for a three-year PhD position (with opportunity for extensions) in the Bonduriansky lab at the University of New South Wales. The Bonduriansky lab (http://-www.bonduriansky.net/index.htm) pursues research on developmental plasticity and parental effects, life history, sexual coevolution and evolutionary theory. A PhD candidate is currently sought for research on the

role of parental effects and nongenetic inheritance in evolution, although candidates with other interests related to the research areas pursued by our lab are also encouraged to apply.

The Bonduriansky lab is part of the Evolution & Ecology Research Centre (http://www.eerc.com.au/), one of Australias top research clusters in evolutionary ecology. The University of New South Wales (http://-www.unsw.edu.au/) is a large, diverse institution and a member of the Group of 8 research-intensive Australian universities, located about 5km from Sydneys city centre and close to the beautiful eastern beaches.

To qualify for the stipend scholarship, a student must obtain a tuition waiver from the university. To be competitive for a tuition waiver, applicants should have high undergraduate marks, at least one publication and at least one conference presentation, and research experience.

Applicants should email a CV (including names and contact information for two academic referees), brief statement of interest, and academic transcripts to r.bonduriansky@unsw.edu.au.

For further information, please contact: Russell Bonduriansky Associate Professor, Evolution & Ecology Research Centre and School of Biological, Earth and Environmental Sciences University of New South Wales r.bonduriansky@unsw.edu.au +61-(0)2-9385-3439

Russell Bonduriansky <bonduriansky@gmail.com>

UOttawa EvolutionaryGeneticsSpeciation

PhD positions in evolutionary ecology/speciation research

Dept. of Biology, University of Ottawa

The Rundle lab has funding for PhD students interested in pursuing one of several projects including:

- the experimental study of speciation using experimental evolution in various species of Drosophila or yeast - field and lab-lab based studies on the evolutionary ecology of antler flies, with the opportunity to work at the Wildlife Research Station in Algonquin Park (Ontario, Canada)

The Rundle lab is located in Ottawa, Canada, a vibrant G8 capital (http://www.ottawa.com/main_e.shtml). National and international candidates are welcomed.

Interested candidates should submit their CV, along with a 1-page statement of the research interests and the names and contact information of two referees, to hrundle@uottawa.ca.

Howard D. Rundle, Associate Professor Department of Biology, 30 Marie-Curie Priv. University of Ottawa, Ottawa, ON, K1N 6N5, CANADA Ph: +1 613-562-5800 x2835; Fax: +1 613-562-5486 hrundle@uottawa.ca; Skype: howarddrundle http://www.science.uottawa.ca/ ˜ hrund050 http://-www.evolution.uottawa.ca howard.rundle@uottawa.ca

UToulouse HostParasiteEvolution

A 3 years PhD grant is available at the Laboratoire ≪˜Venins et Activités biologiques˜≫ (Laboratory Venons & biological activities) of the University of Albi (France). The aim of the PhD research project is to explore the host-parasite relationships between the mite Varroa jacobsoni and the domestic bee, Apis mellifera. It has been observed that some populations of bees are less affected by the mites than others. However, the mechanisms behind this difference are still a matter of debate. In this context, the PhD student will explore the information used by the mites to recognize their host, the variability of this information between populations and the link between this variation and the genetic structure of these populations. The ideal candidate will have a good command of the theory on host-parasite relationships; will be at ease with molecular biology techniques and have a basic understanding of techniques used in chemical ecology. If interested, send a CV and a cover letter to: Dr A. Vétillard, EA 4357 Venins et activités biologiques, University of Albi (avetilla@univ-jfc.fr) or Prof J-L. Hemptinne, UMR 5174 Evolution et Diversité biologique, University of Toulouse (jean-louis.hemptinne@educagri.fr). Deadline for applications: 15 December 2012; research programme starting in January 2013.

Jean-Louis Hemptinne PR Ecologie et Didactique de l'Ecologie Université de Toulouse - Ecole nationale de Formation agronomique UMR CNRS 5174 Evolution et Diversité biologique BP 22687 F-31326 Castanet-Tolosan Cedex

Tel : (+33)0561753295 Fax : (+33)0561750309

JEAN-LOUIS HEMPTINNE <jean-

louis.hemptinne@educagri.fr>

UZurich ConservationGenomics

Two PhD positions in conservation genomics

Two three-year Ph.D. studentships are available in the laboratories of Lukas Keller and Andreas Wagner at the University of Zurich to study conservation genomics of Alpine ibex.

Evolutionary adaptation is essential for endangered species to survive in the long term, yet the role of functionally important genetic variation in the small, isolated populations typical for endangered species is only poorly known. These two PhD theses will address this gap by studying the conservation genomics of the Alpine ibex (Capra ibex), a species that has experienced recent and severe bottlenecks. Using modern population genomics techniques in more than a dozen ibex populations, the successful candidates will study functionally relevant genetic variation and relate it to the dynamics of these populations.

The successful candidates are independent, creative, interactive and highly motivated researchers, with a strong background and interest in evolutionary biology. These projects require the students to immerse themselves into both conservation and genomics. Thus, a background in one, and a willingness to learn the other is essential. Experience with a major programming or scripting language is a bonus, because computational data analysis that requires programming will be a major part of the research work. Some fieldwork may take place in rough terrain high up in the mountains.

These PhD projects are part of the University of Zurich's Research Priority Pro-gram âEvolution in Action' and will be jointly supervised by Lukas Keller (conservation genetics) and Andreas Wagner (bioinformatics) of the Institute of Evolutionary Biology and Environmental Studies. The Wagner lab at the University of Zurich uses next-generation sequencing and functional genomics approaches, together with laboratory evolution experiments, to study the dynamics of genetic change in evolving populations. More generally, the lab has extensive experience with bioinformatics analyses of whole genome sequences ranging from plants to humans. The Keller lab studies evolutionary processes relevant for the long-term survival of endangered species, and has extensively worked on Alpine ibex. The working language in both laboratories is English.

Zurich consistently ranks amongst the cities with the highest quality of life. While it offers all the pleasures of living in a bigger city, thanks to its central location and excellent public transport system, it is extremely easy to get out of the city and head for the mountains.

Applicants should have an MSc (or equivalent) in a relevant field. To be considered, please send a single (!) PDF file merged from the following parts to nicole.zweifel@ieu.uzh.ch: 1) a statement of research interests not exceeding two pages, 2) a 1-page summary of your MSc work, 3) a detailed CV including publication list (if available), 4) a scanned academic transcript (list of grades in university courses), and 5) the contact details of three references. Please include the word "IBEX" in the subject line. Review of applications starts on 29 October 2012, but candidates are considered until the position is filled. The ideal starting date is in early 2013.

If you have any questions please contact Lukas Keller at

lukas.keller@ieu.uzh.ch

UZurich Family evolution birds

The role of proximate, physiological factors for the evolution of family living in birds

1 PhD position in Evolutionary Biology is available at the Institute of Anthropology, University Zurich (Switzerland) under the supervision of Michael Griesser and Carel van Schaik as co-supervisor to study the effect of proximate factors on family living in birds. The fulltime position is funded for up to 3.5 years, starting January 2013.

We are looking for a highly motivated PhD student to work on the effect of proximate factors leading to family formation in Siberian jays (Perisoreus infaustus). This bird species is well investigated and earlier studies focused on the role of parental investment for family living (Ekman & Griesser 2002, Griesser et al 2006, Griesser 2008).

We will use a combination of field experiments, long-term data and physiological analyses (e.g. testosterone & corticosteroid levels) to investigate the proximate factors that drive within brood competition and dispersal, as well as cooperation among group members. The can-

didate will benefit from a strong interest in social evolution and behavioural ecology.

The Anthropological Institute & Museum at the University Zurich offers a stimulating, international work environment with researchers working in related, relevant topics (cooperative breeding and social evolution in primates, birds and dolphins). The working language at the Institute is English. The fieldwork for the project will take place in Swedish Lapland between late winter and early summer, and is at times physically very demanding. Thus the candidates must be able to cross-country ski and able to cope with temperatures down to -30C.

Required qualifications: 1) MSc (or equivalent) in evolutionary biology, ecology, behavioural ecology or similar 2) A strong interest in evolution of sociality and cooperation 3) Field experience of behavioural observations and experimental work 4) Bird handling and banding experience (including mist-netting) 5) Basic knowledge of molecular and/or physiological lab work 6) Experience of climbing trees 7) Highly motivated and sociable personality 8) Project management skills and ability to work independently 9) Drivers license 10) Excellent spoken and written English 11) Conversational Swedish is a plus.

Applications received before 12th November 2012 will be given full consideration.

If you wish to apply, send a motivation letter, CV, publication list, two contacts for references and short summary of your current research (as a single PDF) to: michael.griesser@uzh.ch

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Michael Griesser Anthropological Institute & Museum University of Zurich - Campus Irchel Winterthurerstrasse 190 8057 Zürich Switzerland

http://www.aim.uzh.ch/Research/birdfamilies/-mgriesser.html http://www.prodoc-evolcoop.uzh.ch/-index.html

michael.griesser@uzh.ch

UZurich OrangutanEvolution

PhD position Âat University of Zurich

Identifying cultural units in orangutans

The goal of this project is to identify which factors limit the spread of behavioral innovations, since orangutans lack well-defined bisexual social units as found in the majority of primates. Orangutan females form clear clusters of female relatives, but also have contacts with others, especially males. The task is therefore to describe behavioral profiles of many individuals at a site, including multiple clusters, and relate dyadic similarities to patterns in genetic relatedness, current association frequency (social exposure) and home range overlap (environmental overlap). Observations will focus on one Bornean and one Sumatran population that vary in associations and cluster size. The project requires a field phase, including living under basic conditions, for a total of ca. two years. The PhD candidate will be a member of an international team and is expected to take responsibility for research management and organizational tasks in the respective field sites.

Suitable candidates should hold a master level degree in biology (e.g. zoology, physical/evolutionary anthropology).Â In addition, they must have experience doing fieldwork in the tropics (at least 3 months), Âbe well-organized and able to work independently, be fluent in English, and willing to learn Indonesian. This PhD position is funded by the Anthropological Institute and Museum of the University of Zurich (Switzerland). Appointment is subject to yearly renewal for a maximum of 4 years. For further information contact Prof. Carel van Schaik (vschaik@aim.uzh.ch) or Dr. Maria van Noordwijk.

Candidates should send a letter of application, curriculum vitae, transcript of study records, contact information for two academic referees, list of publications if any, and a half-page summary of the Master's thesis (all combined to a single PDF) to Maria van Noordwijk (vnoord@aim.uzh.ch) no later than December 1, 2012. Start of the project is planned for March 2013. Â Â

Dr. Maria A. van Noordwijk Tuanan Orangutan Research Project Anthropologisches Institut und Museum Universität Zürich Winterthurerstrasse 190 CH-8057 Zürich +41 44 635 5436 http://www.aim.uzh.ch/-orangutannetwork.html vnoord@aim.uzh.ch

UppsalaU 2 SpeciationGenomics

Speciation genomics

2 PhD positions at the Evolutionary Biology Centre of Uppsala University, supervised by Prof Hans Ellegren (see end of message for web page)

Advances in large-scale genomics open new opportunities in speciation research. It allows us to address questions such as the genes underlying the process of speciation, the character of genomic divergence during speciation, and speciation-with-gene-flow. Flycatchers of the genus Ficedula offer an excellent model system for studies of these and related questions (see e.g. Nature 387:589-592, 411:45-50, Science 318:95-97). We have recently sequenced and de novo assembled the flycatcher genome (at 85x coverage and with a scaffold N50 of 7.3 Mb) and performed genome-wide re-sequencing of multiple individuals (each at 5x coverage) of the two closely related species collared flycatcher and pied flycatcher (Nature, in press; doi:10.1038/nature11584). By this we have identified a number of 'divergence islands', many of which are associated with centromeres and telomeres, potentially indicating a role for meiotic drive in species divergence. We are now seeking new PhD students to joi n this project in which coming research will use data from whole-genome re-sequencing of multiple populations (sympatric as well as allopatric) and species, from a 50K SNP array (genotyping in pedigrees and population samples) and from the flycatcher transcriptome and methylome. Genomic parameters that will be analyzed include, for example, recombination rates, linkage disequilibrium, expression divergence, and epigenetic modification. The precise direction of studies will be decided together with the successful candidates.

The venue for these positions, the Evolutionary Biology Centre, is situated in recently-built localities in central Uppsala. The working atmosphere is international with a regular recruitment of PhD students and post-docs from abroad. The Centre constitutes an exciting arena for multidisciplinary research in evolutionary biology in a broad sense, housing some 300 scientists and graduate students, and with research programs in, for example, ecology, genetics, genomics and developmental biology. The scientific environment with numerous seminars, journal clubs and social activities offer excellent possibilities for contacts and collaborations, and represents an ideal training for students to become leading evolutionary biologists of the future. A graduate school in 'The Genomics of Phenotypic Diversity in Natural Populations' (http://-www.ebc.uu.se/education/postgrad/gradschool/) provides a framework for courses and other activities for PhD students. Local platforms for next-gen eration sequencing (http://www.scilifelab.uu.se) and high-performance computational analyses (http:/-/www.uppmax.uu.se) ensure immediate access to state-of-the-art technology. Uppsala University is the oldest university in Scandinavia and the city of Uppsala is a vibrant student town with beautiful and easy accessible surroundings conveniently situated close to Stockholm.

The positions, which are funded by a European Research Council Advanced Investigator Grant, are affiliated with the Department of Evolutionary Biology - an overview of the research activities in the environment can be found at our web pages (http://www.ebc.uu.se/-Research/IEG/evbiol/). Thanks to a number of competitive grants recently obtained, the environment has expanded significantly and houses 8 independent research groups and about 20 PhD students, 20 post-docs, and some bioinformaticians. A common theme is that we address key questions in evolutionary biology, like speciation, local adaptation, life history evolution, genome and molecular evolution, using genomic approaches. Study organisms include natural bird and plant populations, Neurospora, Drosophila, zebra fish, domestic animals and humans. We have tight connections with several other research programs at the Evolutionary Biology Centre.

The fully-funded (salary, research and travel expenses) PhD positions are for four years.

Applicants must hold a Master degree, or are to obtain a degree this academic year, in evolutionary biology, genetics or bioinformatics, or in related disciplines. Successful candidates are expected to display enthusiasm, curiosity, creativity and dedication to the project. Informal inquiries and applications should be sent by email to Hans.Ellegren@ebc.uu.se. Applicants must provide a CV, a statement of research interests and the name and contact details of at least two references. The positions remain open until filled.

Professor Hans Ellegren Department of Evolutionary Biology Evolutionary Biology Centre Uppsala University Norbyvägen 18D SE-752 36 Uppsala Sweden

LAB WEB PAGE:

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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

Vienna ExperimentalEvolution

A PhD position is available to work on adaptive mutations in C. elegans. Although beneficial mutations have

been well-studied in prokaryotes, only limited information is available for multicellular Eukaryotes. The PhD student will use next generation sequencing to identify novel, beneficial mutations that occurred during an experimental evolution experiment. The trajectories of these beneficial mutations will be followed by a fine scale temporal analysis. Modeling the spread of the beneficial mutations will be used to infer selection coefficients, dominance and epistasis. This project is a collaborative effort of Henrique Teotonio (Instituto Gulbenkian, Portual) and Christian Schlötterer (Instiute of Population Genetics, Vetmeduni Vienna, Austria). The PhD student will enjoy the benefits of the Vienna Graduate School of Population Genetics and the PhD program of the Gulbenkian Institute.

Starting date: beginning of 2013, the exact starting date is negotiable.

Interested candidates should send their CV, statement of research interests and names of three reviewers to either Henrique Teotonio (teotonio@igc.gulbenkian.pt) or Christian Schlötterer. Applications should be received by 15.11.2012.

Christian Schlötterer Institut für Populationsgenetik Vetmeduni Vienna Veterinärplatz 1 1210 Wien Austria/Europe

phone: +43-1-25077-4300 fax: +43-1-25077-4390 http://i122server.vu-wien.ac.at/pop Vienna Graduate School of Population Genetics http://-/www.popgen-vienna.at Christian Schlötterer <christian.schloetterer@vetmeduni.ac.at>

Vienna PopulationGenetics

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

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

Topics include:

- Inferring selection using *Drosophila* whole genome sequence data - Analysing next generation sequencing data and understanding the sampling properties of high throughput technologies - The 1001 Genomes Project: Population genetics of *Arabidopsis thaliana* - Speciation genetics in European columbines (*Aquilegia*) - Mutagenesis in the human germline - Population genetic inference using Pool-Seq data - Evolution of gene expression in *Drosophila* - Speciation genomics: mapping of hybrid incompatibilities - Functionally important variation in lifespan and other life history traits in natural and experimental evolution populations - Mathematical models of spatially varying selection in subdivided populations - Statistical methods for detecting selective sweeps using genome-wide data - Population genetic estimators from NGS data: assessing the power for methods for genome scans of selectio - The footprint of adaptive gene introgression after secondary contact

Only *complete* applications (CV, motivation letter, university certificates, indication of the two preferred topics in a *single* pdf) received by *10.01.2013* will be considered. Two letters of recommendation need to be sent directly by the referees.

All information about the about currently available topics, the training program, and the application procedure can be found at www.popgen-vienna.at – Dr. Julia Hosp Vienna Graduate School of Population Genetics Coordinator www.popgen-vienna.at c/o Institut für Populationsgenetik Vetmeduni Vienna Veterinärplatz 1 A-1210 Vienna

Tel: +43 1 25077 4338 Fax: +43 1 25077 4390

julia.hosp@gmail.com

VirginiaTech EcologyEvolutionBehavior

GRADUATE POSITIONS IN INTEGRATIVE ECOLOGY, EVOLUTION, BEHAVIOR, AND ORGANISMAL BIOLOGY

The Integrative Organismal Biology (IOB) group at Virginia Tech is a diverse group of scientists studying the behavior, ecology, evolution, and physiology of animals. IOB faculty are currently seeking talented and highly motivated graduate students to join the Ph.D. program in Biological Sciences beginning in Fall 2013.

IOB is part of the growing Ecology, Evolution, and Behavior group in Virginia Tech's Department of Biolog-

ical Sciences. Members of IOB also interact frequently with scientists studying biology and related disciplines in other departments across campus, including Engineering Science, Entomology, Fish and Wildlife Conservation, and Statistics.

Faculty Research Interests:

Lisa Belden (Community ecology: http://-www.faculty.biol.vt.edu/belden/)

Dana Hawley (Animal disease ecology: http://-www.biol.vt.edu/faculty/hawley/)

Joel McGlothlin (Evolutionary genetics, ecology, and physiology: http://www.faculty.biol.vt.edu/-mcglothlin/)

Ignacio Moore (Mechanisms of behavior in free-living vertebrates: http://www.faculty.biol.vt.edu/moore/)

John Phillips (Sensory ecology and the neural basis of behavior: http://www.faculty.biol.vt.edu/phillips/-behavlab2/phillipsmain.html)

Kendra Sewall (Animal behavior and neurobiology: http://www.biol.vt.edu/faculty/sewall/index.html)

Jeff Walters (Behavioral ecology and conservation biology of birds: http://www.faculty.biol.vt.edu/walters/)

Applications for fall admission should be received by December 31, 2012 for full consideration. Applicants will be considered for financial aid in the form of graduate teaching assistantships, research assistantships, and fellowships. We strongly encourage prospective students to contact a faculty member as soon as possible to discuss their specific research interests.

Graduate program information: http://-www.biol.vt.edu/graduates/index.html Graduate application: http://www.biology.vt.edu/graduates/-how_to_apply/grad_application_informatio n.html Biological Sciences at VT: http://www.biol.vt.edu/-research/index.html Ecology, Evolution, and Behavior at VT: http://www.biol.vt.edu/research/index.html Joel W. McGlothlin Virginia Tech, Dept. of Biological Sciences 2125 Derring Hall, Blacksburg, VA 24061 http://www.faculty.biol.vt.edu/mcglothlin joelmcg@vt.edu

VirginiaTech VirulenceEvolution

Graduate Research Assistantship (Ph.D.) in Wildlife Disease and Pathogen Evolution

The Hawley lab in the Department of Biological Sciences at Virginia Tech is seeking a motivated and enthusiastic graduate student (PhD) to study the evolution of virulence of the bacterial pathogen *Mycoplasma gallisepticum* in its songbird host, the house finch. The selected student will work as part of an interdisciplinary, multi-institution team studying host ecology, immunity, and pathogen evolution under funding from the NIH-NSF-USDA Ecology and Evolution of Infectious Diseases Program (http://www.nsf.gov/news/-news_summ.jsp?cntn_id=125496). Research questions will be student-driven but should fit existing goals of the funded research. Relevant experience with evolution, wildlife disease ecology, and/or immunology strongly desired.

Initial application procedure: (i) Send an email (hawleyd@vt.edu) summarizing your interest and experience relevant to this position. (ii) Include as an attachment your curriculum vitae including grade point averages, GRE scores, and names and email addresses of 3 references.

The official graduate school application (see link below) should be received by December 31, 2012 for full consideration:

http://www.biology.vt.edu/graduates/how_to_apply/-grad_application_information.html Additional information about the Hawley laboratory can be found at: http://www.biol.vt.edu/faculty/hawley/ . Dana M. Hawley Assistant Professor Department of Biology Virginia Tech (0406) 4036 Derring Hall Blacksburg, VA 24061 (540) 231-8946 HawleyD@vt.edu

dmhawl@gmail.com

AcadNaturalSciDrexelU OrnithologyCurator

From: John G. Lundberg Chaplin Chair and Curator of Ichthyology Ornithology Search Committee Chair Academy of Natural Sciences/Drexel University Philadelphia, PA 19103

Job: AcadNaturalSciDrexelU.Ornithology JOINT CURATORSHIP AND TENURE-LINE FACULTY APPOINTMENT at The Academy of Natural Sciences and Drexel University, Philadelphia, PA

The Academy of Natural Sciences, Philadelphia (http://www.ansp.org/research/<file://localhost/-owa/redir.aspx>) and Drexel University (Department of Biodiversity, Earth and Environmental Sciences (BEES); http://www.drexel.edu/bees<file:/-/localhost/owa/redir.aspx>) invite applications for a joint curatorship and tenure-line faculty appointment. The rank of this appointment is open.

The Academy's ornithology collection has nearly 200,000 specimens collected from around the world over the last 250 years, including some of the most important collections from South America. In addition to research, curators are expected to promote and insure the conservation, preparation, care, use, and security of biological collections. The successful candidate will have a commitment to expanding and using the Academy's ornithology collection in research, education, and outreach. Drexel has committed substantial resources for growth of the BEES Department. The successful candidate will have a commitment to teaching undergraduate and graduate students in BEES.

Candidates must have a PhD, a record of scientific achievement in research on the diversity, evolutionary biology and ecology of birds, and a strong interest in undergraduate and graduate teaching. Research exper-

tise might include the areas of systematics, phylogenetics, comparative organismal biology, biogeography, biodiversity informatics, conservation or evolutionary and ecological dynamics.

Applicants with research programs that complement and enrich existing interests at the Academy and in the BEES department and bring opportunities for cross institutional collaboration will be given high priority. The successful candidate will maintain a dynamic, field and museum-based, extramurally funded research program and will contribute to instruction in the newly established Department of Biodiversity, Earth and Environmental Sciences at Drexel University

Submit application materials by November 30, 2012. Anticipated start date for the position is September 1, 2013.

To apply: Register and create application file at DrexelJobs http://www.drexeljobs.com/applicants/-Central?quickFind=3D76366<file://localhost/owa/-redir.aspx> 1. Upload files (PDF format) to DrexelJobs - Curriculum vitae - Statement of research interests & goals, - Statement on teaching philosophy & experience, - Contact information for three references.

2. Forward no more than five (5) most significant publications (PDF format) to Kristen Kepics (kepics@ansp.org).

For additional information about the BEES Department's hiring process, please contact the BEES Ornithology Search Committee, Department of Biodiversity, Earth, & Environmental Sciences, Academy of Natural Sciences of Drexel University, 1900 Benjamin Franklin Parkway, Philadelphia, PA 19103 (kepics@ansp.org).

lundberg@ansp.org

AlbertEinsteinCollegeMedicine ComputationalBiol

The Albert Einstein College of Medicine, one of the leading medical schools in New York City, is seeking to fill multiple tenure track faculty positions in the newly formed Department of Systems and Computational Biology. Established in April 2008, the main goal of the new department is to advance our understanding of living systems by developing theoretical, computational and experimental approaches to study complex biological systems.

The College has 750 medical students, 325 graduate students and 360 post-doctoral fellows in training and boasts a strong research faculty covering broad areas of experimental biology, offering outstanding opportunities for collaborative interactions. The 200,000 square foot Center for Genetic and Translational Medicine at Einstein, which opened in late 2007, locates computational, systems and experimental scientists in physical proximity to foster interdisciplinary communication and collaboration. Highly competitive start-up packages are available. We seek outstanding scientists with broad experience and demonstrated collaborative interactions with experimental or clinical investigators. Candidates should have strength in a physical, mathematical or computational field at the Ph.D. or equivalent level. Experience applying these skills to a biological or biomedical area (demonstrated through publications or support) is also required. Areas of interest include, but are not limited to: Modeling cellular processes, such as signaling, transcriptional regulation and immune response; Pathway analysis; Genetic networks; Functional proteomics and genomics; Evolution of structure and function; Computational neuroscience; Mathematical and computational modeling of complex traits and diseases; QM and dynamic approaches to enzymatic catalysis and drug design. No online applications will be accepted. Please follow application instructions below.

Applicants should send a letter of interest, C.V., statement of research and teaching interests, and names of three referees, in electronic format to:

Systems and Computational Biology Search Committee Albert Einstein College of Medicine Jack and Pearl Resnick Campus 1300 Morris Park Ave. Price Center, Rm. 153 Bronx, New York 10461 E-mail Address: sysbio@einstein.yu.edu

Subject line should be: SCB Faculty Search

Yeshiva University is an equal opportunity employer committed to workforce diversity.

mmcder2010@hotmail.com

BangorU MolecularEvolution

The School of Biological Sciences wishes to appoint a permanent, full-time Lecturer/Senior Lecturer to join its Molecular Ecology and Evolution Group. The group

is one of the most successful and dynamic research groups in the College of Natural Sciences with a large portfolio of research grants and a large modern suite of laboratories and offices housed within the Environment Centre Wales (ECW) building. Core duties will include both research and teaching, with the successful candidate being expected to develop and maintain a productive research programme in molecular ecology and evolution, ideally with strong expertise in the analysis of population genetics /genomics, alongside a contribution to teaching the subject at undergraduate and postgraduate levels.

Candidates should be educated to PhD level and have a strong research record, including external grant capture and 3* and 4* publications as predicted for the UK Research Excellence Framework (REF).

The successful candidate will be expected to commence in early 2013.

The appointment will be made in the range of Lecturer £37,012 - £44,166 (Grade 8) or Senior Lecturer £45,486 - £49,689 (Grade 9) per annum, depending on previous experience.

Applications will only be accepted via our on-line recruitment website at jobs.bangor.ac.uk. However, in cases of accessibility issues, paper application forms are available by telephoning 01248 382926.

Informal enquiries should be directed to Professor Gary Carvalho, email g.r.carvalho@bangor.ac.uk, or Professor George Turner (Head of School), email george.turner@bangor.ac.uk., or Dr Simon Creer, email s.creer@bangor.ac.uk.

The closing date for applications is 16th November 2012. Interviews will take place on 29th November 2012.

Committed To Equal Opportunities

Links to the post can be found here:

Nature Jobs: http://www.nature.com/naturejobs/-science/jobs/286821-Lecturer-Senior-Lecturer-in-Molecular-Ecology-and-Evolution Bangor University: https://jobs.bangor.ac.uk/details.php.en?id=-QLYFK026203F3VBQB7V68LOTX&nPostingID=-299&nPostingTargetID=316&mask=stdext&lg=UK MEFGL website: http://mefgl.bangor.ac.uk/-opportunities.php Many thanks Brian!

Cheers and best

Si Creer

Simon Creer Lecturer Molecular Ecology and Fisheries Genetics Lab Environment Centre Wales Building School of Biological Sciences Bangor University Bangor Gwynedd LL57 2UW UK

e-mail: s.creer@bangor.ac.uk Tel: +1248 382302 Fax: +1248 382569 Home Page: http://-/mefgl.bangor.ac.uk/si.php "Creer,Simon" <s.creer@bangor.ac.uk>

Bergen Norway LabTech CellOrganEvolution

Laboratory Department Engineer

The Sars International Centre for Marine Molecular Biology is now offering a fulltime temporary project position until March 2016 in a research group investigating cell type and organ system evolution. Main topics are molecular and structural studies on cell type specification and function in different marine invertebrates.

The person holding this position will be trained by and work in close association with the group members. Major tasks will include DNA and RNA preparation, gene cloning, reporter gene construction, in situ hybridization, immunohistochemistry, confocal microscopy and specimen preparation for electron microscopy. Other responsibilities include the daily management of lab equipment and consumables and purchasing. Working language is English and Norwegian.

The successful applicant should have at least an engineering college degree (høyskole) or equivalent qualifications based on education and professional experience. A strong background in standard molecular biological techniques is expected. Prior experience in gene expression studies and light or electron microscopic techniques is advantageous. The preferable start date is as soon as possible. The salary level for Department Engineer (code 8430) begins at NOK 397.000 and is negotiable based on prior experience. Uni Research has employee insurance and pension agreements and is an equal opportunity employer.

The Sars International Centre is a partner of the European Molecular Biology Laboratory (EMBL) < http://-www.embl.de/ > and a department of Uni Research AS < http://www.uni.no/ >, affiliated with the University of Bergen < http://www.uib.no/info/english/ >. The Centre focuses on basic research in marine molecular biology, developmental biology and evolution, through genetic and comparative studies of invertebrates and vertebrates. The Centre offers excellent molecular and imaging resources.

For further information regarding the position, please contact Dr. Harald Hausen, Group Leader: harald.hausen@sars.uib.no, tel +47 555 84303.

Written applications in English, including CV, summary of educational and work experience and contact information for two references and marked 12Sars07 can be sent to: Sars Centre, HR Consultant, Thormøhlensgt. 55, NO-5008 Bergen, Norway, no later than 02 November 2012. Please note that applications sent by e-mail will not be considered.

Interviews will be conducted in English in the presence of bilingual English/Norwegian committee members.

Carol Bruce <Carol.Bruce@sars.uib.no>

BinghamtonU NewYork Evolutionary Genetics

SUNY-Binghamton.Evolutionary_Genetics

The Department of Biological Sciences at Binghamton University (http://www2.binghamton.edu/-biology/) invites applications for a tenure-track faculty position in Evolutionary Genetics at the assistant professor level. All specializations will be considered, but applicants with research programs containing a field component and those using genomic approaches are especially encouraged to apply. The successful applicant is expected to maintain a vigorous, extramurally funded research program, participate in undergraduate and graduate education, and contribute to cross-departmental integration through EvoS (http://-evolution.binghamton.edu/evos/), a Binghamton University campus-wide evolutionary studies program.

Applicants should submit a cover letter, curriculum vitae, research and teaching statements, and three (3) representative publications to http://-binghamton.interviewexchange.com. They should also arrange for three (3) letters of recommendation to be submitted on their behalf.

http://binghamton.interviewexchange.com/-jobofferdetails.jsp?JOBID=35585 Applications will be reviewed beginning December 1, 2012 and will be accepted until the position is filled.

Questions about the position can be addressed to Dr. David Sloan Wilson at dwilson@binghamton.edu.

It is the policy of the Binghamton University to provide for and promote equal opportunity employment, compensation, and other terms and conditions of employment without discrimination on the basis of age, race, color, religion, disability, national origin, gender, sexual orientation, veteran or military service member status, marital status, domestic violence victim status, genetic predisposition or carrier status, or arrest and/or criminal conviction record unless based upon a bona fide occupational qualification or other exception.

afiumera@gmail.com

BiodiversityResInst TulaneU CollectionGeoreferencing

Georeferencing Technician

The Tulane University Biodiversity Research Institute is excited to announce the beginning of a new Collaborative Georeferencing project for natural history collections funded by the U.S. National Science Foundation. The goal of this collaborative effort is to georeference all fish collection records in the FishNet 2 portal that have no assigned latitude/longitude coordinates. The twelve collaborating institutions listed below will be seeking applicants for a 1.5-year full time Georeferencing Technician who will assign latitudes and longitudes to natural history collections data from locality descriptions using geographic tools. The selected candidate will be responsible for georeferencing locations assigned to them from various geographic regions within the FishNet 2 network.

Each participating institution will have specific requirements, but typically, the georeferencing technician should have a Bachelor?s degree or higher in biology, geography, museum studies, biodiversity informatics or closely related field, fundamental computer skills, working knowledge of geographic information systems, georeferencing standards and protocols, and be able to work independently and with principal investigators toward project oriented goals while collaborating with similar personnel at other institutions that are part of the FishNet 2 network. Additional georeferencing training specific to the project needs will be provided throughout the project. More information about this project can be found at http://geolocate.fishnet2.net. As of 22 October 2012 some positions have not been posted online yet. If the online listing for the position you are interested in is not yet available, let us know and we will contact you as soon as it is becomes available.

* Academy of Natural Sciences Philadelphia http://www.ansp.org/about/jobs-and- opportunities/jobs/ Contact Dr. John Lundberg with questions lundberg@ansp.org * California Academy of Sciences http://calacademy.snaphire.com/safelink=JSH& * Cornell University https://www.hr.cornell.edu/jobs/ * Field Museum http://fieldmuseum.org/about/employment * Los Angeles County Museum http://www.nhm.org/site/about-our-museums/working-at-nhm/jobs- nhm * Tulane University https://tulanejobs.tulane.edu/postings/search * University of Florida (position filled) * University of Illinois at Urbana-Champaign (position filled) * University of Kansas http://employment.ku.edu/job-searches Search for jobs on the KU Lawrence campus under ?External Applicants? and search for ?georeferencing technician? * University of Michigan http://umjobs.org/ * University of New Mexico http://www.unm.edu/jobs/ * University of Texas at Austin (position filled)

For additional information, contact Dr. Michael Doosey mdoosey@tulane.edu.

Michael H. Doosey, Ph.D. Tulane University Biodiversity Research Institute 3705 Main Street Building A-3 Belle Chasse, LA 70037 504-394-1711

"Doosey, Michael H" <mdoosey@tulane.edu>

ColoradoStateU PlantEvolutionaryBiol

PLANT EVOLUTIONARY BIOLOGIST ASSISTANT PROFESSOR, TENURE-TRACK DEPARTMENT OF BIOLOGY COLORADO STATE UNIVERSITY

POSITION: The Department of Biology at Colorado State University (Fort Collins, Colorado) is recruiting a Plant Evolutionary Biologist at the rank of Assistant Professor. We seek a creative and broadly trained plant biologist who addresses fundamental and integrative questions in evolutionary biology. Examples of research interests include adaptation, bioinformatics, conservation biology, evolution of morphology and life histories, evolutionary ecology, genomics, hybridization, invasive species, mating systems, molecular evolution, population genetics, and speciation. This tenure-track position involves undergraduate and graduate teaching (approximately 45 percent), research involving undergraduates and graduate students (approximately 45 percent), and service/outreach (approximately 10 percent). Colorado State University (CSU) provides a highly collaborative and supportive environment with opportunities to interact with faculty in other colleges on campus including those studying evolution (http://www.evolution.colostate.edu/) and to participate in the Program in Molecular Plant Biology (http://plant.biology.colostate.edu/), the Graduate Degree Program in Ecology (www.colostate.edu/Depts/GDPE/), and the Graduate Degree Program in Cell and Molecular Biology (http://www.colostate.edu/Depts/CMB/). CSU is also home of the CSU Herbarium (http://herbarium.biology.colostate.edu/), Natural Resource Ecology Laboratory (http://www.nrel.colostate.edu/), and Plant Growth Facilities (http://plantgrowthfacilities.colostate.edu/). Associated with the university are the Central Plains Experimental Range (http://sgslter.colostate.edu/ars/default.asp) and the National Center for Genetic Resources Preservation (http://www.ars.usda.gov/Main/site_main.htm?modecode=54-02-05-00).
For more information about CSU in general and the Department of Biology in particular, please visit the departmental website: http://www.biology.colostate.edu/ . This new position complements a cluster hiring in Bioinformatics and Computational Biology launched in the College of Natural Sciences. As part of this effort, the Department of Biology, the Department of Computer Sciences, and the Department of Statistics are conducting independent faculty searches. Information about those positions can be found at: http://www.biology.colostate.edu/employment/, http://www.cs.colostate.edu/cstop/csdepartment/csemployment.php, and http://www.stat.colostate.edu/statdepartment/statemployment.html . RESPONSIBILITIES: The successful candidate will be expected to develop an extramurally funded and innovative research program that complements (rather than replicates) existing strengths of the department in evolutionary ecology, genomics, and systematics. This position involves both undergraduate and graduate teaching in the successful candidate's area of expertise and the departments core curriculum.

QUALIFICATIONS: Applicants must have a Ph.D. in Biology or an allied field by the time of their application and a research program in plant evolutionary biology with publications in peer-reviewed journals. Postdoctoral experience and evidence of successful grant writing are preferred.

EMPLOYMENT CONDITIONS: This is a nine-month, full-time position. Salary and start-up funds will be commensurate with education and experience at the rank of Assistant Professor.

DATES AND RECORDS: The plant-evolutionary-biologist position will be available as early as August 15, 2013. For full consideration, complete applications must be received by December 3, 2012.

To apply: combine into one pdf file these four documents: a cover letter, a current curriculum vitae (CV), and separate statements of research and teaching interests. The cover letter should explicitly state how the applicants research program will complement existing strengths of the department in evolutionary ecology, genomics, and systematics. The research statement should demonstrate the applicants creativity in addressing fundamental questions in plant evolutionary biology. Submit

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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

CzechRepublic HeadPopulationGenetics

A permanent vacancy is available at an excellent institution! Please send applications to *ibot@ibot.cas.cz , *not to me.* *

The Institute of Botany of the Academy of Sciences of the Czech Republic v.v.i. is offering the position of a

Head of Population Genetics Laboratory / Research Scientist

from January 2013 or earlier.

The position encompasses

design, implementation and publication of state-of-the-art research in Plant Population Genetics / Molecular Ecology along the lines of the institute's general research directions (see www.ibot.cas.cz)

management and further methodological development of the laboratory

providing the lab infrastructure for other working groups, coordination of lab users, supervision of graduate / postgraduate students

collaboration with colleagues from different departments, providing advise and support concerning experimental design, preparation of grant proposals, implementation of molecular procedures, data analysis and interpretation, publication and presentation of results

Requirements

PhD, publications in IF journals, experience with fundraising

ability to lead a molecular laboratory, experience with the set-up of new techniques

broad knowledge of molecular applications relevant in population genetics and their mathematical background

experience with phylogenetic analyses, next generation sequencing and genome data analysis is of advantage

experience with supervision

excellent communication skills, ability to work collaboratively as well as independently

We offer

a fully equipped molecular laboratory (incl. automated sequencer, lab technician)

an excellent research infrastructure (see also Laboratories and Experimental Gardens;

www.ibot.cas.cz/index.php?p=vedecke_zazemi&site=en)

the possibility to collaborate on running and future projects

the option to teach and officially supervise PhD theses at Charles University in Prague

a pleasant working atmosphere in beautiful surroundings (Pru*honice Park)

a salary according to age, experience, and scientific profile of the selected candidate in accordance with the regulations for academic personnel of Academy institutes, plus bonuses for publications and involvements in grant projects

Applications should include a motivation letter, a curriculum vitae, a description of research interests and future intentions, and two letters of recommendation from supervisors or previous employers. *All application materials should be submitted as a single pdf to (ibot@ibot.cas.cz) before 15 November 2012.*

Evaluation of applications will start in the first weeks of November. Interviews for this position are scheduled by end of November 2012.

Daniel Montesinos <danimontesinos@gmail.com>

DuquesneUniv GeneticsGenomics

Duquesne University Genetics/Genomics Faculty

Duquesne University, Pittsburgh PA, invites applications for a tenure-track position at the Assistant Professor level in the Department of Biological Sciences. Duquesne is committed to the teacher-scholar model, where excellence is expected in both education and research. The successful applicant will develop a vigorous, externally-funded, independent research program in the area of genetics, genomics, or bioinformatics. S/he will teach a basic course in genetics and participate in genomics and bioinformatics courses.

Applicants must have post-doctoral experience and are expected to mentor undergraduates and PhD students. Competitive salary and start-up packages are available. Additional information about the Department can be found at http://www.duq.edu/biology . To apply, email your application, including a cover letter, CV, and statements of research and teaching goals to: geneticsearch@duq.edu. Also arrange for three letters of recommendation to be emailed to the same address. Review of applications will begin November 15, 2012. Please direct inquiries about the position to biology@duq.edu.

seamanm@duq.edu

ETH Zurich EvolutionInfectiousDiseases

Although the title of the assistant professorship is "ecology" of infectious disease, I would like to emphasise that our search is broad and that we are also interested in candidates with a more evolutionary background.

Best regards Sebastian Bonhoeffer

Dear Colleague

We would like to bring to your attention the ongoing search conducted by the ETH Zurich for an assistant professor in the ecology of infectious diseases (http://www.facultyaffairs.ethz.ch/-facultypositions/ap_ecology_infectious_disease). The professor will be part of the Institute of Integrative Biology (Department of Environmental System Science). We are excited about expanding into this dynamic field of research and we are convinced that the future professor will find a highly stimulating and supportive environment at the institute and the ETH in general.

We would like to emphasise that ETH positions come with a generous budget which funds research costs and a group of about 2 postdocs (or 1 postdoc and 2 PhD students). This budget increases substantially upon tenure. Moreover the funding enviroment for competitive grants within Switzerland and within ETH is very good.

We would also like to emphasise that we are very broad in this search and are open to any exciting developments in the field.

Please do not hesitate to contact us if you require further information about the job or the environment or if you have suggestions for outstanding candidates.

Best regards Sebastian Bonhoeffer and Jonathan Levine

sebastian.bonhoeffer@env.ethz.ch
jonathan.levine@env.ethz.ch

Bonhoeffer Sebastian <sebastian.bonhoeffer@env.ethz.ch>

EastCarolinaU EvolutionaryPlantBiochemist

Although this is not explicitly an "evolution" job, applications from folks that span disciplines are welcome.

Tenure Track Faculty Position

The Department of Biology at East Carolina University, the third largest campus in the University of North Carolina system, invites applications for a tenure-track position in Plant Biochemistry at the Assistant or Associate Professor level (will consider other titles based on degree and qualifications) to begin in August 12, 2013. We particularly welcome applicants with research interests in traits and processes relevant to the biology of agriculturally important plants. Qualified applicants will have a Ph.D. and postdoctoral research experience. The successful candidate will establish a vigorous, well-funded research program, contribute to undergraduate and graduate teaching, and mentor students in the M.S. and Interdisciplinary Ph.D. programs. Appropriate service to the university, community and profession is expected. Please visit our website at http://-

www.ecu.edu/biology for more information on the department.

ECU requires online submission at www.jobs.ecu.edu using the position number 000388 V Plant Biochemist. Applicants should complete a Candidate Profile and submit a letter of application, statements of research interests and teaching experience/philosophy and a curriculum vitae. Also, arrange for three current letters of reference to be sent to: Plant Biochemist Search Committee Chair, Department of Biology V Mail Stop 551, Howell Science Complex, East Carolina University, Greenville, NC, 27858-4353 or emailed to letsingerj@ecu.edu. Official transcript and original hardcopy reference letters are required upon employment.

Inquiries may be directed to Dr. John Stiller, Search Committee Chair, stillerj@ecu.edu. Review of applications will begin October 20, 2012 and continue until the position is filled.

East Carolina University is an Equal Opportunity/Affirmative Action University that accommodates individuals with disabilities. Individuals requesting accommodation under the Americans with Disabilities Act (ADA) should contact the Department for Disability Support Services at [252] 737-1016 (Voice/TTY). Proper documentation of identity and employability are required at the time of employment.

Christopher Balakrishnan <chrisbala10@gmail.com>

FloridaIntlU EvoDevo

EVOLUTIONARY DEVELOPMENTAL BIOLOGIST V The Department of Biological Sciences at Florida International University is seeking applicants for an open-rank tenure-track position in Evolutionary Developmental Biology. Depending on the research needs and interests of the successful candidate, posting would be considered either at our MMC campus, housing our comprehensive Biological Sciences Department, or at our Biscayne Bay Campus, housing our Marine Biology and Marine Science Programs. Research focus may include plant, animal, fungal or protist models. Candidates using genomic approaches are especially encouraged to apply. The successful candidate will build a competitive, externally-funded research program; develop collaborations with current biology faculty; supervise undergraduate, M.S. and Ph.D. students; teach undergraduate Evolution, Genetics or Developmental Biology; and develop graduate courses in his or her area of expertise. Senior candidates should have a demonstrated history of leadership and consistent funding in the field of evolutionary developmental biology.

Florida International University is recognized as a Carnegie engaged university. Its colleges and schools offer more than 180 bachelors, masters and doctoral programs in fields such as engineering, international relations, architecture, law and medicine. As one of South Floridas anchor institutions, FIU is worlds ahead in its local and global engagement, finding solutions to the most challenging problems of our time. FIU emphasizes research as a major component of its mission and enrolls 48,000 students in two campus and three centers, including FIU Downtown on Brickell and the Miami Beach Urban Studios. More than 160,000 alumni live and work in South Florida. For more information about FIU, visit fiu.edu. The Department of Biological Sciences has 48 faculty, 4700 majors, and 126 graduate students in fields ranging from cell and molecular biology to evolution and ecology. The Marine Science Program, housed in a recently completed building on FIU's Biscayne Bay Campus in the city of North Miami, currently is home to 12 research laboratories, 2 teaching laboratories, wet labs, a mesocosm facility, and running sea water systems.

To ensure full consideration, applications should be received by November 16th, 2012. Screening of applications will begin on that date and continue until a suitable candidate is selected. Qualified candidates are encouraged to apply to Job Opening ID 505075 at jobsearch.fiu.edu and attach a 1) cover letter, 2) curriculum vitae, and 3) statements of research, teaching, and service goals and interests. Applicants should also arrange to have three letters of reference sent to Dr. Jennifer Richards at richards@fiu.edu, using EvoDevo in the subject. FIU is a member of the State University System of Florida and is an Equal Opportunity, Equal Access Affirmative Action Employer.

CELL BIOLOGIST V The Department of Biological Sciences at Florida International University seeks a dynamic colleague specializing in the area of cell biology for an open-rank tenure-track position. The candidate will join an active, collaborative and diverse group of biologists who use a variety of model systems to explore basic questions in science. Any specialization within the field of cell biology would be attractive to the department. Posting would be considered either at our MMC campus, housing our comprehensive Biological Sciences Department, or at our Biscayne Bay Campus, housing our Marine Biology and Marine Science Programs, depending on the research needs and interests of the successful candidate.

Florida International University is recognized as a Carnegie engaged university. Its colleges and schools offer more than 180 bachelors, masters and doctoral programs in fields such as engineering, international relations, architecture, law and medicine. As one of South Floridas anchor institutions, FIU is worlds ahead in its local and global engagement, finding solutions to the most challenging problems of our time. FIU emphasizes research as a major component of its mission and enrolls 48,000 students in two campus and three centers including FIU Downtown on Brickell and the Miami Beach Urban Studios. More than 160,000 alumni live and work in South Florida. For more information about FIU, visit fiu.edu. The Department of Biological Sciences has 48 faculty, 4700 majors, and 126 graduate students in fields ranging from cell and molecular biology to evolution and ecology. The Marine Science Program, housed in a recently completed building on FIU's Biscayne Bay Campus in the city of North Miami, currently is home to 12 research laboratories, 2 teaching laboratories, wet labs, a mesocosm facility, and running sea water systems.

To ensure full consideration, applications should be received by November 16th 2012. Screening of applications will begin on that date and continue until a suitable candidate is selected. Qualified

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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

FordhamU NewYork EvolutionUrbanEcology

Dear EvolDir members,

please see below the official announcement for a faculty position in Fordham University's Dept of Biological Sciences. This is an urban ecology position, and researchers addressing evolution in the urban environment are encouraged to apply.

Best, Sergios-Orestis Kolokotronis Assistant Professor Fordham University Department of Biological Sciences 441 E Fordham Rd, Larkin Hall Bronx, NY 10458 - USA- koloko@amnh.org http://koloko.net ### Job: Assistant or Associate Professor Institution: Fordham University Location: New York City Start Date: Summer 2013 and on Deadline: 29 October

ECOLOGIST POSITION, FORDHAM UNIVERSITY. Applications are invited for a tenure-track position at the ASSISTANT or ASSOCIATE PROFESSOR level in the Department of Biological Sciences. We seek an ecologist conducting hypothesis-driven research in URBAN ECOLOGY. Experience using molecular tools is desirable. The successful applicant will establish a research program at Fordhams biological field station, the Louis Calder Center, and participate in our Center for Urban Ecology (CUE). There are also opportunities to collaborate with scientists at the New York Botanical Garden, Wildlife Conservation Society, and American Museum of Natural History. A commitment to undergraduate and graduate teaching and research is required. Assistant Professor candidates must demonstrate potential to develop an externally funded research program. Associate Professor candidates must have a record of external, peer-reviewed funding and indicate future directions using regional resources.

Applicants should email one PDF application file containing a cover letter, CV, contact information for three references, teaching and research statements, and three reprints to jdlewis@fordham.edu. Address the cover letter to Dr. J.D. Lewis, Chair, Department of Biological Sciences, Fordham University, Bronx, NY 10458, USA. Review of applications will begin October 29th, 2012. Fordham University is an independent, Catholic university in the Jesuit tradition that welcomes applications from men and women of all backgrounds. Fordham is an EOE.

Sergios-Orestis Kolokotronis <koloko@amnh.org>

Hawaii Tech PopGenetics

Technician position: Population genetics/phylogenomics, Hawaii Aloha! The University of Hawaii Manoa (Rubinoff Lab) and USDA-ARS Pacific Basin Agricultural Research Center (Geib Lab) have funding for an entry level technician in the area of population genetics/phylogenomics/bioinformatics. This research project is focused on analyzing populations of Tephritid fruit fly species using genome-wide analysis techniques towards marker discovery and developing assays for determination of source populations. The duties would be assisting with laboratory molecular biology, analysis of NGS data, focusing on population biology, genomics, etc. Background

in population genetics and phylogenetics is required. Knowledge of linux/unix, scripting, and programming in some language is desired. Our approaches include RAD-Seq, GBS (genotyping by sequencing), RNA-seq, and multi-gene sequencing. We have advanced computing resources and a very active research program. Salary is ~$30,000-36,000/yr, hired through University of Hawaii Manoa, and the job will be stationed at the USDA-ARS Pacific Basin Agricultural Research Center in Hilo (Big Island of Hawaii). Funding is secured for 1 year, with possibility of extension based on future funding. Undergraduate degree in Genetics or similar is required. If interested, please contact Dr. Scott Geib at scott.geib@ars.usda.gov and submit CV, Research Narrative, and contact for at least 3 references.

Scott Geib, PhD Research Entomologist Insect Genomics USDA Pacific Basin Agricultural Research Center Tropical Crop and Commodity Protection Research Unit 64 Nowelo Street Hilo HI, 96720

808-959-4335 (office) 808-959-5470 (fax)

Scott.Geib@ARS.USDA.GOV

HendrixC Arizona EvolutionaryPhysiologist

While the job announcement below is not explicitly evolutionary, applications from individuals with an evolutionary focus or framework for their work are of great interest to our department. This is NOT a human anatomy and physiology position. Courses that could be taught by the new hire include, but are not limited to, Animal Physiology and Animal Behavior.

Assistant Professor of Physiology

Hendrix College is seeking to hire a broadly trained physiologist for a tenure track position starting in August 2013. The position allows a 25% release from normal teaching duties for directing a research program. Expertise in neurophysiology and post-doctoral experience preferred but strong candidates with other qualifications will be considered. Application should include a letter addressing the candidates interest in teaching in a demanding liberal arts environment, an overview of the proposed research program and how it will involve undergraduates, a curriculum vitae and three letters of recommendation (including the phone numbers and email addresses of the referees), and transcripts of all graduate and undergraduate work. Applications from candidates with an interest in participating in the common freshman course and other interdisciplinary programs, and in using instructional technology where appropriate, will be particularly welcome. Review of applications will begin November 9 and the application materials should be sent to: Matthew Moran, Hendrix College, 1600 Washington Avenue, Conway, AR 72032. Moran@hendrix.edu

Hendrix is a distinguished liberal arts college with an endowment of $160 million, sheltering a chapter of Phi Beta Kappa, located in Conway, Arkansas, thirty miles from Little Rock at the foothills of the Ozark Mountains. The College, related to the United Methodist Church, has a strong commitment to excellence in teaching liberal arts. Hendrix is an equal opportunity employer. Women and members of minority groups are especially encouraged to apply. Please visit our website at www.hendrix.edu . George R. Harper, Ph.D. Nancy & Craig Wood Odyssey Assistant Professor Department of Biology Hendrix College 1600 Washington Ave. Conway, AR 72032-3080

“Harper, George” <harper@hendrix.edu>

KansasStateU Bioinformatics

Tenure Track Position in Bioinformatics/Computational Biology

The Department of Plant Pathology at Kansas State University seeks an investigator working in the field of bioinformatics and computational biology with an emphasis on the genomics of plants, microbes, and/or their interactions. The position is for a tenure-track Assistant Professor and is available starting July 1, 2013. The successful candidate is expected to develop an independent, externally funded research program that complements existing programs at Kansas State, including the Integrated Genomics Facility (IGF) and the Bioinformatics Center, and to collaborate with faculty, staff, and students in the department and across campus in the design of genomic experiments and the analysis of experimental data. The successful candidate is expected to teach one course annually in bioinformatics, or a related area, to contribute to bioinformatics workshops offered through the IGF, and to advise and direct graduate students.

Qualifications:

Required:

1. Ph.D. in bioinformatics, computational biology, or a related area; 2. Demonstrated research excellence; 3. Ability and desire to teach and to mentor graduate students and postdoctoral researchers; 4. Demonstrated organizational and interpersonal skills; 5. Strong commitment to expanding and fostering diversity.

Preferred:

Postdoctoral experience preferred. Research experience with plant or microbial genomics preferred. A track record in securing external funding preferred.

Kansas State University has faculty with dynamic research programs in the genomics of plants, microbes, their interactions, and related areas, and many of the faculty are engaged with the IGF and Bioinformatics Center.

Websites for more information:

Department of Plant Pathology - www.plantpath.ksu.edu Kansas State University - www.ksu.edu KSU Integrated Genomics Facility (IGF) - www.ksre.ksu.edu/igenomics/p.aspx?tabid KSU Bioinformatics Center - http://bioinformatics.k-state.edu/ To apply: Please submit: (1) application letter, including a description of qualifications for the position; (2) a 1-2 page statement of research and teaching interests; (3) CV, including publication list; (4) up to three representative publications; (4) transcripts from graduate and undergraduate studies (official transcripts in English required if selected for interview), and (5) three letters of reference. Send application materials to:

Department of Plant Pathology Position #W0038014 (required in message subject line) 4024 Throckmorton Plant Sciences Center Kansas State University Manhattan, KS 66506-5502 E-mail: plantpath@ksu.edu

Contact Dr. Karen A. Garrett, Bioinformatics Search Committee Chair (kgarrett@ksu.edu , 785-532-1370), for further information.

Application Deadline: Screening of applications begins November 23, 2012 and continues until the position is filled.

Kansas State University is an equal opportunity, affirmative action employer and actively seeks diversity amongst its employees. Background check required for successful applicant.

toomajia@k-state.edu

KansasStateU HostPathogenEvolution

FACULTY POSITION Assistant or Associate Professor HOST-PATHOGEN INTERACTIONS Kansas State University

The Division of Biology at Kansas State University invites applications for a tenure-track faculty position beginning in the 2013-2014 academic year. We seek an outstanding individual who will establish and maintain a vigorous, extramurally funded research program within the broad area of host-pathogen interactions. Our areas of interest include molecular research on bacterial, viral, or eukaryotic pathogens and their interactions with hosts or vectors in animal or plant systems. The successful candidate will complement existing strengths in infectious disease research in the Division, and will also contribute to instruction of a diverse graduate and undergraduate population. The position includes a competitive salary and start-up package. Candidates must have a Ph.D. or equivalent, postdoctoral training, and a strong record of research accomplishments. To be considered at the Associate level, candidates should have experience as an Assistant Professor (or equivalent) and be the principal investigator of a well-established, internationally recognized and currently funded research program. The Division of Biology (http://www.k-state.edu/biology) features a diverse, collegial, and interactive faculty who collectively bring in approximately $10 million per year in extramural research funding, and a vigorous graduate training program with around 70 current graduate students at the doctoral and masters levels. Kansas State University is a major research university with excellent research facilities, including the Biosecurity Research Institute (http://www.bri.k-state.edu), a state-of-the-art BSL3 building located on the main campus. We are situated in Manhattan, a pleasant college town in the Flint Hills region of northeast Kansas.

Application instructions are at http://www.k-state.edu/biology/employment.html. Questions about the position can be directed to Dr. Rollie Clem, Search Committee Chair (rclem@k-state.edu). Review of applications will begin November 14, 2012 and continue until the position is filled. Kansas State University is an AA/EO employer, and actively seeks diversity among its employees. Background checks are

required for all employees.

The broad area of host-pathgen interactions described above includes work that takes an evolutionary perspective.

Michael Herman Professor Division of Biology Kansas State University 266 Chalmers Hall Manhattan, KS 66506 Office: (785) 532-6741 Lab: (785) 532-6773 FAX (785) 532-6653 Email : mherman@ksu.edu http://www.k-state.edu/hermanlab Mike Herman <mherman3@cox.net>

Leipzig 8 Biodiversity

Eight new chairs in biodiversity science at the new German research center iDiv in Leipzig

The DFG (Germans equivalent of the NSF) has just established iDiv, the German center for biodiversity research (www.idiv-biodiversity.de), that aims to become a world-leading player in biodiversity science. We encourage applications for eight founding chairs from members of the scientific community who are making, or who aspire to make, a major contribution to biodiversity science in its broadest sense. Chairs are designated in a gamut of fields covering molecular, experimental and evolutionary approaches through to development of theory and conservation (see link below), though our remit is wide. Chairs will in due course take a major role in developing the research profile of iDIV. These positions are permanent, paid at the top of the German academic scale (W3), and come with a generous start-up package (6-8 additional positions per chair for postdocs through to technicians, 300-1000K Euro start-up funds per chair, 60-90K Euro annual budget per chair), including full health and pension plans. Lab infrastructure, IT, technical and administrative support are provided in addition to the above. Founders of iDIV include the universities of Leipzig, Jena and Halle plus 8 other non-university research institutes (several Max Planck, UFZ and Leibniz Institutes), all in the vicinity and providing a dynamic and stimulating intellectual environment.

For more details of the profiles sought and for the application procedure, see:

http://www.nature.com/naturejobs/science/jobs?q=-idiv&where=&commit=Find+Jobs and contact me for informal enquiries:

robert.paxton@zoologie.uni-halle.de

Leipzig has a rich history and continues to be a vibrant and international city with diverse cultural events, very affordable housing and superb social milieu. The New York Times recently listed it as one of the 10 must-see places in the world.

Application deadline: November 30, 2012

Robert Paxton <robert.paxton@zoologie.uni-halle.de>

MasseyU BioinformaticsTech

Dear EvolDir,

We have a technician position in bioinformatics available at Massey University in New Zealand. This is available at the Auckland campus in the Institute of Natural Sciences (INS; http://ins.massey.ac.nz), a new Institute that is rapidly expanding and has a strong computational biology focus.

The position is an exciting new role that will provide bioinformatics expertise to the newly-established New Zealand Genomics Ltd (NZGL; http://www.nzgenomics.co.nz/) through Massey University. The successful candidate will provide services in experimental design, and statistical and bioinformatics analyses, with an emphasis on next-generation DNA sequencing data. They will deploy and maintain analytic and data management pipelines as well as generating custom bioinformatic solutions. They will be a key member of the distributed NZGL bioinformatics team that also includes members from Auckland and Otago Universities, and will have a small component of their time dedicated to assisting research within INS.

The successful candidates will have a BSc (or equivalent) and a post-graduate qualification in molecular biology and/or computing, or equivalent experience. Applicants must have experience working in a UNIX environment and should be familiar with at least one of Perl, Java, Python, C or C++. Experience in the analysis of next-generation sequencing data is preferred. Good communication and writing skills are essential.

For more information about the position, please contact Dr. Austen Ganley (a.r.ganley@massey.ac.nz).

To apply for the position, please refer to the job on the Nature.jobs website (http://www.nature.com/-naturejobs/science/jobs/285759-Bioinformatics-technician-position-in-New-Zealand), and follow

the link within that (the link gets modified by the mailing list, hence the indirect route).

Closing date: 28 October 2012 (NZ time)

Many thanks,

Austen

Austen Ganley (PhD) Senior Lecturer, Room 14.05 Institute of Natural Sciences Massey University (Albany) Auckland NEW ZEALAND

Website: http://rdnaome.org http://-www.massey.ac.nz/ ~ aganley/ Phone +64-9-414-0800 ext 41512 Fax +64-9-441-8142

Mailing address: Building 11, INS Massey University (Albany) Private Bag 102-904 North Shore Mail Centre Auckland NEW ZEALAND

A.R.Ganley@massey.ac.nz

MichiganStateU MicrobialEvolution

We are interested in a hiring a faculty member who thinks broadly about both ecological and evolutionary questions. Hence, our desire to post the ad on the EvolDir site. This position is an excellent opportunity for the right individual who can meld ecological and evolutionary thinking.

gary mtitelbach

The W.K. Kellogg Biological Station (KBS) of Michigan State University seeks to fill a tenure-track, academic year faculty position in microbial ecology. This position is part of a University-wide Global Water Initiative to enhance and expand the capacity of MSU to address fundamental and applied research questions related to the sustainable use of water. The position is available beginning in Fall 2013 and can be filled at either the Assistant or Associate Professor level.

Applicants should show evidence of their capacity to develop externally funded and collaborative research that uses microbes to address fundamental ecological and evolutionary questions. KBS is ideally suited to a field-focused research program that links microbial processes and population, community, ecosystem, and/or landscape dynamics. While the specific research area of interest is open, the individual selected for this position should have a demonstrated interest in research involving aquatic systems.

The successful applicant will be expected to contribute to graduate research training at KBS and in their on-campus department and participate in summer teaching and research programs at KBS. Joint appointments in the Departments of Microbiology and Molecular Genetics, Zoology or Plant Biology, which would be the tenure home for the successful applicant, will be evaluated as part of the search process. The specific campus teaching assignment for this position will depend on the candidate's home department, but will be equivalent to one course per year. They will also be expected to participate in the interdepartmental graduate training programs at MSU in Ecology, Evolution and Behavioral Biology (EEBB) and/or Environmental Science and Public Policy (ESPP). Opportunities for research in collaboration with other KBS faculty and in Microbiology and Molecular Genetics, Plant Biology, Zoology, Geology and other departments involved in the establishment of the MSU Global Water Initiative will be encouraged.

The position is based at KBS, an MSU off-campus research facility that supports the research programs of 14 resident faculty, as well as campus-based and visiting faculty from other institutions. KBS has state of the art laboratory and field research facilities and is located approximately 65 miles from the main East Lansing campus of MSU (www.kbs.msu.edu). The 3000+ acre land base of KBS and proximity to a diversity of aquatic habitats provide ample opportunity for a field-based research program in microbial ecology. There is a rich history in both microbial and aquatic ecology research at KBS that provides a foundation for the research to be developed by a new faculty member. KBS also hosts an NSF Long-term Ecological Research site that can provide opportunities for research collaboration nationally.

Applications will be considered until the position is filled. Review of applications will begin on 1 December 2012. Application materials should be submitted to MSU's online application website (https://-jobs.msu.edu; position number 30198796, posting number 6950), including: a letter of interest, CV, a statement of research accomplishments and goals, a statement of teaching accomplishments and goals, and contact information for three references. Questions about these positions should be addressed to MicrobialEcologySearch@kbs.msu.edu or Dr. Steve Hamilton (Hamilton@kbs.msu.edu), Chair of the Search Committee.

Michigan State University is an Affirmative Action/Equal Opportunity Employer. Applications from women and members of under-represented groups are strongly encouraged. Persons with disabilities have the right to request and receive reasonable accommodation.

Jenny Smith

Executive Secretary for Dr. Katherine L. Gross W.K. Kellogg Biological Station 3700 E. Gull Lake Dr. Hickory Corners, MI 49060 Tel: 269-671-2354 Fax: 269-671-2351 Email: jclark@kbs.msu.edu

Gary Mittelbach <mittelbach@kbs.msu.edu>

MichiganStateU PlantEvolution

Integrative Plant Biologist

The Department of Plant Biology at Michigan State University invites applications for a tenure-track position at the Assistant Professor level. We seek an ecologist, population biologist or evolutionary biologist who integrates across multiple scales of biological organization. Areas of interest include, but are not limited to, evolutionary genetics, phylogenetics, population genetics, conservation biology, plant physiology and genomics. The successful applicant will contribute to undergraduate and graduate teaching and maintain an externally funded research program. Applicants must have a Ph.D.; postdoctoral research experience is desirable. Applications should include a curriculum vitae, a summary of research accomplishments and future research objectives, a brief description of teaching philosophy and goals (compiled as a single pdf file), and three letters of reference, all of which should be uploaded electronically at https://jobs.msu.edu for position # 6815. Information about the Department of Plant Biology can be found at http://www.plantbiology.msu.edu< http://www.plantbiology.msu.edu/ >. The review of applications will begin November 12, 2012 and will continue until a suitable candidate is identified. Questions regarding this position may be directed to Dr. Douglas Schemske, Search Committee Chair (schem@msu.edu).

Stacy LaClair Department of Plant Biology Michigan State University Plant Biology Laboratories 612 Wilson Road, Room 166 East Lansing, MI 48824 517-353-9650

"LaClair, Stacy" <Laclairs@plantbiology.msu.edu>

MichiganStateU QuantPopBiology

Faculty Positions in Quantitative Biology

Michigan State University

The interdisciplinary graduate program in Ecology, Evolutionary Biology & Behavior < http://-eebb.msu.edu/ > (EEBB) at Michigan State University (MSU) is seeking applications for two tenure-track Assistant Professor faculty positions in the *quantitative biology of organisms *and/or* populations*. Successful applicants will be able to demonstrate expertise and leadership in the development and application of quantitative approaches to theory and data that address fundamental questions in ecology, evolutionary biology, and/or behavior. They will be expected to establish externally-funded research programs that support graduate training within their research groups and to make significant contributions in the domains of both graduate and undergraduate teaching. A competitive start-up and compensation package will be offered according to the applicant's experience and qualifications. MSU has additional funding opportunities, as part of an Excellence Hiring Initiative, to recruit exceptional candidates at the Associate and Full Professor levels.

With 136 graduate students and over 100 participating faculty, EEBB at MSU is one of the most successful graduate training programs in the world. The EEBB core curriculum trains students in effective application of key theoretical, mathematical, computational and statistical modeling tools used by ecologists, evolutionary biologists and behavioral biologists. Successful applicants will contribute to teaching in the EEBB core curriculum, including the possibility of new courses in their areas of expertise. Depending upon research interests and programmatic fit, the successful applicants will have their tenure home in one of the following academic departments: Plant Biology < http://www.plantbiology.msu.edu/ >, Microbiology and Molecular Genetics < http://www.mmg.msu.edu/- > and Zoology < http://www.zoology.msu.edu/ >. Both new faculty members will have the opportunity to participate in the NSF-funded BEACON Center for the Study of Evolution in Action < http://beacon-center.org/ >.

MSU is an affirmative action, equal opportunity employer, committed to achieving excellence through diversity. We actively encourage applications and/or nominations of women, persons of color, veterans, persons with disabilities and individuals who can contribute to the intellectual diversity and cultural richness at Michigan State University.

Application materials should be submitted to the MSU Applicant Page (MAP) for faculty positions (online at https://jobs.msu.edu; posting number 6886) as a sin-

gle, concatenated pdf document that includes: a letter of interest, CV, three representative publications, a statement of research accomplishments and goals and a statement of teaching accomplishments and goals. The research and teaching statements should highlight the applicant's approach to achieving excellence through diversity. Please provide the names of three potential referees. Letters of recommendation will be solicited later.

Applications will be accepted until both positions are filled. Review of applications will begin on November 12, 2012.

Questions can be addressed to the Search Committee Chair (Tom Getty) at eebbsrch@msu.edu.

Ecology, Evolutionary Biology and Behavior Program Kay E. Holekamp, Director Pat Resler, Secretary

293 Farm Lane, Rm. 103 Giltner Michigan State University East Lansing, MI 48824

Phone: (517) 432-1359 E-mail: eebb@msu.edu Website: www.eebb.msu.edu

EEBB Office <eebb@msu.edu>

Milwaukee MuseumCollectionManager

Collection Manager - Invertebrate/Vertebrate Zoology

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

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

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

MPM is a natural history museum with Invertebrate and Vertebrate Collections totaling almost 2 million specimens and strengths in Lepidoptera, Coleoptera, Arachnids, Mollusks, Crustaceans, Fishes, Herps, Birds and Mammals of Wisconsin and the Neotropics. This position offers a competitive wage and benefit package. If interested, please visit www.mpm.edu and go to the "careers" tab to review "open positions" to apply on-line. In addition, please submit a current resume and/or Curriculum Vitae. Review of applications will begin December 3, 2012.

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

sb@mpm.edu

Munich EvolProgramCoordinator

The EES-LMU Graduate Program in Evolution, Ecology and Systematics at the University of Munich (LMU) is looking for a

Coordinator (full-time or half-time)

for our master's program. The coordinator will also be the local organizer of an Erasmus Mundus Master Program (MEME) that is a collaboration with the Universities of Groningen, Uppsala, and Montpellier (with Harvard University as an external partner). The ideal candidate should have a master's or doctoral degree in biology or a related field. He/she should be highly motivated and have good communication skills. The position requires fluency in both English and German. Experience with teaching, administration or curriculum coordination is an advantage.

The EES-LMU graduate program is run by the faculty of biology of the LMU. In addition, the LMU faculty of

Earth and Environmental Sciences, the Max Planck Institute for Ornithology, and the Bavarian Natural History Collections are involved. The coordinator functions as an interface between university administration, international partners, instructors, and students. The coordinator also has the opportunity to participate in teaching and course design.

For more information on the programs, please see the websites:

http://www.eeslmu.de/eeswiki http://-www.evobio.eu/ EES-LMU offers a great working environment for someone interested in science and teaching, and who enjoys interacting with students and professors to improve education in evolution, ecology and systematics. The initial appointment is for 2 years and will be paid at TVöD 13 according to the German salary scale. The application deadline is October 29, 2012. Interviews will be held in early November and the starting date is January 1, 2013. Applications, including a letter of motivation, CV, and contact information for at least two personal references should be sent (preferably by email as a single pdf file) to:

Prof. John Parsch Department of Biology II University of Munich Grosshaderner Str. 2 82152 Planegg-Martinsried Germany parsch@bio.lmu.de

parsch@zi.biologie.uni-muenchen.de

NHM LosAngeles GeoreferenceTech

The Natural History Museum of Los Angeles County is seeking an Assistant Collections Manager for our Ichthyology Division. We invite applications for a 1.5 year full time Georeferencing Technician who will assign latitudes and longitudes to natural history collections data from locality descriptions using geographic tools. The selected candidate will be responsible for georeferencing locations assigned from various geographic regions within the FishNet2 network (a collaborative effort to establish a global network of fish collections) using specially developed webbased collaborative georeferencing tools. Training will be provided in the use of these tools.

The successful applicant should ideally have a working knowledge of geographic information systems, georeferencing standards and protocols, and be able to work independently and with principal investigators toward project oriented goals while collaborating with similar personnel at other institutions that are part of the Fishnet2 network.

Required qualifications include:

Degree at bachelors level in biology, geography, museum studies, biodiversity informatics or closely related field. Fundamental computer skills including use of word processing and spreadsheet applications, relational databases, electronic mapping technologies and use of physical maps, and the Internet as related to the project goals. Ability to communicate in an effective and professional manner.

Salary is commensurate with experience plus excellent benefits. This is a full time, regular, non-exempt position.

Review of applications begins immediately and continues until position is filled.

Please apply online at http://www.nhm.org/site/-about-our-museums/working-at-nhm/jobs-nhm under the listing "Assistant Collections Manager, Ichthyology"

Christine Thacker <thacker@nhm.org>

NorthDakotaStateU EvolutionSeasonalTiming

NORTH DAKOTA STATE UNIVERSITY DEPARTMENT OF BIOLOGICAL SCIENCES

The Department of Biological Sciences invites applications for two tenure-track Assistant Professor positions to begin Fall 2013. We seek applicants whose primary research interests are in the area of ecological and evolutionary consequences of seasonal timing, and prefer those who apply functional genomics, bioinformatics or computational biology to understanding seasonality. We welcome applicants studying timing at all levels of inquiry, from those studying genetic, molecular or cellular mechanisms as well as those studying community, landscape and ecosystem-level functions. Candidates must have a Ph.D. from an accredited institution in a discipline appropriate to the biological sciences and relevant post-doctoral experience. Successful candidates will be expected to develop an extramurally funded research program, supervise graduate students, and teach one course per semester at the undergraduate or graduate level. The positions are 45% research 45% teaching and 10% service. The successful candidates will join a

group of departmental faculty whose areas of research focus on timing across multiple levels of organization in plants, invertebrates and vertebrates.

All application materials (letter of application, statement of teaching philosophy, statement of research interests and goals, curriculum vitae, up to three representative publications, and contact information for 3 references) must be submitted online at: http://www.ndsu.edu/biology/ .Review of applications will begin October 15, 2012 and continue until the positions are filled. For full consideration applications should be received by November 5, 2012. Questions regarding the search may be sent to ndsu.biological.sciences@ndsu.edu.

NDSU is an EO/AA Employer and an NSF ADVANCE Institution committed to supporting the growth and development of all faculty. The institution is also classified as a Carnegie Very High Research Activity Institution that supports world-class research opportunities. Competitive start-up packages, salaries, benefits and laboratory space will be provided to successful candidates. For additional information on North Dakota State University visit http://www.ndsu.edu/ . Steve Travers, PhD Department of Biological Sciences NDSU Dept. 2715 P.O. Box 6050 Fargo, ND 58108-6050 701-231-9435 steven.travers@ndsu.edu

"Travers, Steven" <Steven.Travers@ndsu.edu>

Paris EvolutionaryGenomics

Dear all,

A lecturer / "maître de conférences" position in evolutionary genetics/genomics will open next year at the Ecole Normale Supérieure in Paris, France.

The Lecturer will teach senior undergraduates and master students (L3, M1 and/or M2 years) at the Ecole Normale Supérieure. His/her contribution will mainly concern evolutionary genetics, in the wider framework of courses in genetics, genomics, statistics and data analysis, evolutionary biology and/or ecology. Teaching aims: Theoretical bases of formal genetics, including laboratory genetics and quantitative genetic analysis of natural variation. Integration of genomic data in genetic analysis. Applications to the integrative biology of evolutionary and ecological processes. The research project will address mechanisms of phenotypic evolution, combining genetic and genomic approaches. The Lecturer will conduct his/her research within a team of the Department of Biology of the Ecole Normale Superieure (http://www.ibens.ens.fr/-spip.php?rubrique3).

Note that French citizens need to apply for "qualification" before October 25, so that they can later apply to this position (or any other such position). https://www.galaxie.enseignementsup-recherche.gouv.fr/ensup/cand_qualification.htm This administrative step is not required in most cases for foreigners, except if they have been living in France for a long time. The position will be announced later at http://www.ibens.ens.fr/. The application deadline will be in February or March 2013.

With best wishes, Marie-Anne Felix Professor, ENS mail: felix@biologie.ens.fr Tel: +33-1-44-32-39-44 http://www.ibens.ens.fr/spip.php?article256&lang=en STRAINS: http://www.justbio.com/worms/index.php Marie-Anne Felix <felix@biologie.ens.fr>

Smithsonian SystematicBotanist

Research Botanist, Smithsonian Institution, National Museum of Natural History The Department of Botany seeks a systematic botanist for a full-time research position, initially as a four-year term appointment. Candidates should have demonstrated expertise that emphasizes innovative as well as conventional application of systematic techniques/theory, utilizing modern methods of comparative morphology and tools such as molecular phylogenetics. Candidates should also have expertise in additional fields, such as biogeography, biodiversity and conservation, floristics, informatics, or theoretical systematics. Candidates with a recognized research program on the systematics of lichens, ferns, marine algae, or a major angiosperm group such as Asteraceae, Fabaceae, Melastomataceae, and Rubiaceae, in which the US National Herbarium has strong holdings, may be given preference. The position will be filled at the GS-12 level with a starting salary of $74,872. U.S. citizenship is required. Applicants must have demonstrated ability to establish an externally funded research program, and to conduct fieldwork and/or collection building. See announcement number 13A-JW-297816-DEU-NMNH at www.sihr.si.edu < http://www.sihr.si.edu > or www.usajobs.gov < http://www.usajobs.gov > for details about the application process for this position. To learn more about the Smithsonian[1]s Botany Depart-

ment, seehttp://botany.si.edu/. Applications must be received online by November 15, 2012 and must reference the announcement number. Applicants will be notified by email when their applications are received. The Smithsonian Institution is an Equal Opportunity Employer.

Elizabeth Anne Zimmer, Ph.D. Principal Investigator/Research Biologist Department of Botany Laboratories of Analytical Biology National Museum of Natural History, Smithsonian Institution Museum Support Center, MRC 534 4210 Silver Hill Rd. Suitland, MD 20746 Phone: 301-238-1118 FAX: 301-238-3059 Cell: 703-863-9806 email: zimmerl@si.edu URL: http://botany.si.edu/staff/index.cfm "Zimmer, Elizabeth (Liz)" <ZIMMERL@si.edu>

SmithsonianInst Tech EvolGenet

Laboratory Technician

Center for Conservation and Evolutionary Genetics, Smithsonian Conservation Biology Institute, National Zoo

We are recruiting at least one technician to conduct DNA analyses in the Center for Conservation and Evolutionary Genetics Laboratory. The position will involve basic DNA skills (DNA extraction, PCR and standard DNA sequencing), next-generation sequencing (454 and Illumina) library preparation, ancient DNA, and other molecular methods as required. The position is available initially for one year and will begin as soon as possible following the deadline, but no later than January 2013. Minimum qualification is a bachelor's degree in biology or similar field, or an equivalent combination of education or experience. Demonstrated laboratory experience in one or more of the above areas are required.

To apply, email (1) a brief letter of application detailing your interests and experience in the methods listed above, (2) a current curriculum vitae or resume, and (3) names, addresses and phone numbers of at least three references to Robert Fleischer (fleischerr@si.edu). Deadline for applications is 9 November 2012. Please contact Dr. Fleischer if you have any questions concerning the position.

Center for Conservation and Evolutionary Genetics

Smithsonian Conservation Biology Institute National Zoological Park PO BOX 37012 MRC 5503 Washington, DC 20013-7012 USA

"Fleischer, Robert" <FleischerR@si.edu>

StonyBrookU HumanEvolutionaryBiol

Anthropology - Human Evolutionary Biology - Biostatistician

As part of an interdepartmental initiative in Human Evolutionary Biology, Stony Brook University invites applications for a tenure-track position in the Department of Anthropology at the level of Assistant Professor, beginning September 2013. The successful candidate for this position will have an outstanding research program, a commitment to excellence in teaching and will participate in a new undergraduate major in Human Evolutionary Biology jointly offered by the Departments of Anthropology and Ecology & Evolution.

The Department of Anthropology seeks a Biostatistician with a strong anthropological focus. The successful candidate will teach an undergraduate course in biostatistics for Human Evolutionary Biology majors and develop an advanced biostatistics course for graduate students in the Anthropological Sciences Ph.D. program. Strong preference will be given to a candidate with expertise in one or more of the following: mixed-effects models, phylogenetic comparative methods, nonparametric statistics, and/or mathematical modeling. Ability to write code (e.g. R or MatLab) is desirable. The candidate must have a demonstrated research interest in evolutionary morphology or behavioral ecology.

The candidates will be expected to teach additional undergraduate courses in their area of expertise, secure external research funding, and play an active role in our highly ranked graduate program. Applicants must have a Ph.D. by starting date and a strong publication record.

Applicants should apply via AcademicJobsOnline.Org http://academicjobsonline.org/ajo/1856. Applications should include a cover letter stating research and teaching interests, curriculum vitae, up to three examples of publications, and three references letters (to be submitted by the reference writers through AcademicJobsOnline.Org). Applications should be addressed to the Biostatistician Search Committee, Department of Anthropology, Stony Brook University, Stony Brook,

NY 11794-4364, USA.For full consideration applications and letters of reference should be submitted before October 18, 2012.Questions about the search should be directed to the Biostatistician Search Committee at <anthropology@stonybrook.edu>. Stony Brook University is an Equal Opportunity/ Affirmative Action Employer.

smaiolino@notes.cc.sunysb.edu

TennesseeTechU EvolutionaryGenetics

Assistant Professor of Biology: Genetics. Tennessee Tech University, Cookeville, Tennessee.

Full-time, nine-month, tenure-track Assistant Professor of Biology; appointment to begin August 2013. The successful candidate will teach undergraduate and graduate courses in the Department of Biology, including but not limited to General Genetics, Molecular Genetics, Genetic Engineering Laboratory, and one or more courses in their area of specialization. Other responsibilities include developing an externally funded research program, advising undergraduate and graduate students, directing thesis research of M.S. and/or Ph.D. level graduate students, and providing service to the university. Required qualification: Ph.D. degree in Genetics or closely related discipline. Preferred qualifications: previous university-level teaching experience, postdoctoral experience, strong record of peer-reviewed publications, and potential for developing an externally funded research program. Research specialty is open and should complement those of current faculty. To ensure full consideration, all application materials should be received by November 30, 2012; open until filled. All applicants must apply online at www.tntech.edu/jobs and will be required to electronically upload a letter of application addressing the qualifications and essential functions, and describing teaching and research interests; curriculum vitae; copies of all transcripts (official transcripts required upon hire); and names and email addresses of three professional references who will be asked to provide a reference letter. For questions, contact Dr. Hayden Mattingly, hmattingly@tntech.edu,

(931) 372-6410. AA/EEO

Chris Brown Associate Professor Dept. of Biology, Box 5063 Tennessee Tech University Cookeville, TN 38505 email: cabrown@tntech.edu website: iweb.tntech.edu/cabrown

CABrown@tntech.edu

TexasAMU LabCoordinator Genomics

The Department of Life Sciences at Texas A&M University-Corpus Christi is accepting applications for a full time Laboratory Coordinator with a background in molecular genetics and genomics to manage the Core Genomics Laboratory and support the high-throughput Marine Genotyping Laboratory at TAMUCC. Job duties will include maintaining equipment and lab inventory, running DNA sequencing and genotyping machines, managing core laboratory finances, assisting/training students and faculty with equipment use, sample processing and bioinformatics.

Texas A&M Corpus Christi is an Equal Opportunity/Affirmative Action Employer committed to diversity.

Qualifications

Bachelor's or Master's Degree in Biological Science, Chemistry, Computer Science or closely related discipline. Two years related experience. Any combination of experience and education may be used.

Experience with at least one of the following genotyping technologies: Sanger sequencing, capillary fragment length analysis, 454, Fluidigm, Ion Torrent, Illumina, Solid, or any other next generation sequencing technology. Experience with basic molecular genetic procedures, including: DNA/RNA stabilization, PCR, gel electrophoresis, gel extraction, and PCR cleanup is required.

Preferred Qualifications

Experience with the Illumina MiSeq, HiSeq, or GAIIx. Basic bioinformatic skills and knowledge of a scripting language such as Perl or Python. Computer programming experience. Experience with genetic software such as: Stacks, Structure, SPAGEDI, KINSHIP, Arlequin, GeneMapper, RAXML, MrBayes, PRIMER6, Network, TCS, GenAlex, BEAST, GenePop, or PAUP.

Job Duties

Conduct laboratory work: process genetic samples, genotyping, sequencing. Assist and train faculty and students to properly use laboratory equipment. Conduct basic bioinformatic processing to next generation

sequencing data sets. Maintain laboratory equipment and inventory. Manage laboratory budget and finances.

Salary

Salary is competitive and commensurate with experience.

Application Procedure

Send a cover letter, CV/resume, and list of up to 5 references via the following website: islanderjobs.tamucc.edu/applicants/Central?quickFindi985

Questions

email Dr. Chris Bird at chris.bird@tamucc.edu

Christopher E. Bird Assistant Professor

Marine Biology Program Texas A&M University - Corpus Christi Center for the Sciences, Unit 5802 6300 Ocean Dr. Corpus Christi, TX 78412 808-398-1460

chris.bird@tamucc.edu

TrinityU Texas LabTech BehavioralEvolution

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

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

Salary for this position is $11.34/hour, with benefits. This position is available for one year, with the possibility of extension pending funding availability.

To apply, please send the following materials to Dr. Michele Johnson at michele.johnson@trinity.edu: CV or resume, including contact information for 2-3 references, and a cover letter explaining why you are interested in the position. Also, please submit the following form to Trinity University Human Resources: http://iraa.trinity.edu/iraa/Documents/hr_docs/-Application%20for%20Employment.pdf .Review of applications will begin immediately. Women and minority candidates are strongly encouraged to apply. Trinity University is an Equal Opportunity Employer.

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

michele.johnson@trinity.edu office phone: 210-999-8918 lab phone: 210-999-8216 www.trinity.edu/mjohnso9/ mjohnso9@trinity.edu

Trondheim 2 BiosystematicsBiodiversity

Associate professor of biosystematics

The NTNU Museum of Natural History and Archaeology in Trondheim, Norway, has an available position as Associate Professor of biosystematics. The position is permanent and available from 1 May 2013. The position will be at the Department of Natural History as part of the research group; Systematics and Evolution Group. The successful candidate will conduct his/her research within any field of biosystematics (systematics, taxonomy) of vascular plants and will also be responsible for the Museum's collections of vascular plants. Gross salary for Associate Professors are between NOK 468,100 (æ63,170) and NOK 688,900 (æ92,966) per annum before tax.

For more information on position and how to apply: http://www.jobbnorge.no/job.aspx?jobid=87134 —

Professor/Associate Professor of biodiversity, Trondheim (Norway)

The Museum of Natural History and Archaeology in Trondheim, Norway, has an available position as Professor, alternatively Associate Professor, of biodiversity. The position is permanent and is available from 1 July 2013. The position will be at the Department of Natural History and a part of the research group in conservation biology. The selected candidate will be given a special responsibility to develop the research in the group to high international standards. The Professor

will conduct his/her research within biodiversity with emphasis on how diversity is affected by interactions between humans and natural environment. We seek a highly motivated person who has research experience using vascular plants as models. Norwegian Professor salaries are between gross NOK 572,400 (æ77,245) and NOK 1,215,000 (æ163,963), while Associate Professor salaries are between gross NOK 468,100 (æ63,170) and NOK 688,900 (æ92,966) per annum (before tax).

For more information on position and how to apply: http://www.jobbnorge.no/job.aspx?jobid=87132 Hans K. Stenoien Museum of Natural History and Archaeology Norwegian University of Science and Technology

"Hans K. Sten©ien" <hans.stenoien@ntnu.no>

UAberdeen AnimalEvolutionaryEcol

Lectureship/Assistant Professorship in Evolutionary Ecology or Quantitative Ecology at the University of Aberdeen, UK.

As part of an ambitious recruitment drive across the School of Biological Sciences, we are seeking to appoint a Lecturer or Senior Lecturer in Evolutionary Ecology. This post will be closely aligned with the research and teaching activity undertaken within the School and the Institute of Biological and Environmental Sciences (IBES; www.abdn.ac.uk/ibes), in particular the Ecology & Evolution research programme. This programme has particular strengths in integrating theoretical, statistical and molecular approaches to understanding ecological and evolutionary dynamics and in applying this understanding to conserving biodiversity under multiple scenarios of environmental change.

We seek applicants who have or are building international reputations for research and have demonstrated aptitude for innovation, knowledge exchange and effective collaboration, and who will complement and enhance our existing areas of expertise. While exceptional individuals from all relevant disciplines are encouraged to apply, we particularly seek applicants in two research domains: 1) animal evolutionary ecology/ecological genomics - using empirical molecular genetic, 'omic or quantitative genetic approaches to understand how animals respond or adapt to challenges in their natural environment or environmental change; 2) quantitative or theoretical ecology or evolutionary ecology - broadly defined as using mathematical, statistical and/or simulation modelling approaches to understand systems at the individual, population or community level;

Applicants will have a PhD in a relevant biological science and an excellent track record of publication in high profile journals. They will possess a vision for developing a research programme at the leading edge of ecology and/or evolutionary biology and, commensurate with experience, demonstrate either a track record of, or clear potential for, securing the competitive research funding required to achieve their vision. Experience of teaching at undergraduate and postgraduate level, with enthusiasm and aptitude for effective student supervision, will be advantageous.

Please see http://www.abdn.ac.uk/jobs/ (School of Biological Sciences)

Dr Jane M. Reid

Royal Society University Research Fellow School of Biological Sciences University of Aberdeen

Tel: 01224 274224 Email: jane.reid@abdn.ac.uk

The University of Aberdeen is a charity registered in Scotland, No SC013683.

"Reid, Dr Jane M." <jane.reid@abdn.ac.uk>

UArkansas Eukaryotic Genetics

FACULTY POSITION IN EUKARYOTIC GENETICS

The Department of Biological Sciences (http://-biology.uark.edu) at the University of Arkansas solicits applications for a tenure-track Assistant Professor working in eukaryotic genetics (Position Y13930). The successful candidate will have a Ph.D. and postdoctoral experience, and will be expected to establish an extramurally supported research program, supervise graduate and undergraduate research, and teach undergraduate general genetics, and advanced offerings. Review of completed applications will begin November 09, 2012, and will continue until the position is filled. Applications must include curriculum vitae, statement of current and future research plans, teaching philosophy/interests, and three letters of recommendation sent independently. Email applications in PDF form to: Dr. Michael Lehmann (mlehmann@uark.edu), Department of Biological Sciences, SCEN 601, 1 University of Arkansas, Fayetteville, AR 72701. The University

of Arkansas is an equal opportunity, affirmative action institution. All applicants are subject to public disclosure under the Arkansas Freedom of Information Act and persons hired must have proof of legal authority to work in the United States.

Andrew Alverson University of Arkansas Department of Biological Sciences 1 University of Arkansas, SCEN 601 Fayetteville, AR 72701-1201

office: 479-575-7975 lab: 479-575-4886

http://alverson.openwetware.org/ aja@uark.edu

UBritishColumbia AquaticMicrobialEvolution

Canada Research Chair in Aquatic Microbial/Protist Ecology Departments of Botany and Zoology, UBC Vancouver

****** Researchers with expertise in evolutionary biology are encouraged to apply; the successful applicant will become an integral member of the Center for Microbial Diversity and Evolution at the University of British Columbia. ******

The Departments of Botany and Zoology at the University of British Columbia invite applications for a Tier 2 Canada Research Chair (CRC) in Aquatic Microbial/Protist Ecology. This is a tenure-track position, with initial appointment to be made at the Assistant Professor level, beginning no earlier than July 1, 2013. We seek an outstanding applicant whose research program investigates the functional ecology of phytoplankton, microzooplankton or other protists within the context of their natural, preferably marine, environment. The program should include a strong field component and address fundamental questions in ecology with state-of-the-art approaches, such as genomics, transcriptomics, and proteomics.

Responsibilities of the position include establishing and conducting an internationally competitive and externally funded research program, effective teaching at the undergraduate and graduate levels, supervising graduate students, and participating on service committees for the departments, university, and academic/scientific community.

Tier 2 Canada Research Chairs are open to individuals of any nationality who are within 10 years of earning a PhD. The position is subject to review and final approval by the CRC Secretariat. More information about the CRC program can be found at www.chairs.gc.ca . The successful applicant will be a member of the UBC Centre for Microbial Diversity and Evolution (www.cmde.science.ubc.ca) and will also be considered for appointment as a Scholar in the Canadian Institute for Advanced Research program in Integrated Microbial Biodiversity (www.cifar.ca/-integrated-microbial-biodiversity).

Applicants should send a cover letter, curriculum vitae, statement of research, statement of teaching accomplishments and/or interests, and up to four publications to Dr. Brian Leander at ecologysearch@botany.ubc.ca. Letters of support from three referees should be sent to ecologyreferences@botany.ubc.ca. In order to receive full consideration, applications should be submitted on or before Friday, November 30, 2012.

UBC hires on the basis of merit and is committed to employment equity. All qualified persons are encouraged to apply. We especially welcome applications from members of visible minority groups, women, Aboriginal persons, persons with disabilities, persons of minority sexual orientations and gender identities, and others with the skills and knowledge to engage productively with diverse communities.

bleander@mail.ubc.ca

UCalifornia LosAngeles StatGenetics

Faculty Position in Statistical Genetics/Genomics

The Departments of Human Genetics and the Department of Statistics at the University of California Los Angeles are now accepting applications for a state-funded, tenure-track, or tenured, faculty position split between the two departments. Starting academic rank and salary will be based on level of experience. The successful applicant will join a faculty of 8 computational geneticists in the Department of Human Genetics in the School of Medicine, led by Department Chair Kenneth Lange, and a faculty of 14 statisticians with applied research interests in the Department of Statistics in the College of Letters and Science, led by Department Chair Rick Paik Schoenberg. The successful applicant will have the opportunity to interact with a diverse faculty of laboratory and clinical researchers and mathematical and computational biologists at UCLA. The appointee will be expected to carry out an active

and independent research program and participate in undergraduate and graduate student education. Experience in mentoring women and underrepresented minorities in STEM fields is desired. Consideration will also be given to candidates whose experience in teaching, research or community service has prepared them to contribute to diversity and excellence. UCLA is an Affirmative Action/Equal Opportunity Employer. All qualified applicants are encouraged to apply, including minorities and women.

For full consideration, applicants should send their CV's, a statement of research interests (maximum 3 pages), reprints of 3 significant publications, and the names of 3 professional references by December 1, 2012 to:

Janet Sinsheimer Ph.D. Search Committee Chair c/o Anne Carson EMAIL: genstat@mednet.ucla.edu Mail: Department of Human Genetics The David Geffen School of Medicine at UCLA 695 Charles E. Young Drive South Los Angeles, CA 90095-7088

JanetS@mednet.ucla.edu

UCalifornia Merced Biostatistics

http://jobs.ucmerced.edu/n/academic/-position.jsf?positionId=3D4252 The University of California, Merced is a dynamic new university campus in Merced, California, which opened in September 2005 as the tenth campus of the University of California and the first American research university in the 21st century. In keeping with the mission of the University to provide teaching, research and public service of the highest quality, UC Merced offers research-centered and student-oriented educational opportunities at the undergraduate, master's and doctoral levels through three academic schools: Engineering, Natural Sciences and Social Sciences/Humanities/Arts.

The Molecular Cell Biology group in the School of Natural Sciences at the University of California, Merced invites applications from exceptional scholars and teachers at the Assistant Professor (tenure track) level in Biostatistics.

Biostatistics is the development and use of statistical methods for medical and biological datasets including, but not limited to applications in experimental design, quantitative biology, epidemiology, medical informatics, nutrition, evolutionary biology, sequence bioinformatics, genomics, metabolomics, and systems biology. Current strengths of the Molecular Cell Biology group at UC Merced include cancer metabolism, diabetes, inflammation, infectious disease, and mechanisms of cell fate decisions. Ideally, applicants should demonstrate successful grantsmanship and nationally recognized research. We encourage applications from women and members of ethnic minorities.

The University of California at Merced is an affirmative action/equal opportunity employer with a strong institutional commitment to the achievement of diversity among its faculty, staff, and students. The University is supportive of dual career couples.

Qualifications: Strong applicants should have a Ph.D. and show a track-record in development and/or application of methods in biostatistics, biomedical informatics, epidemiology, multiple hypothesis testing, Bayesian estimation and model selection, Markov chain Monte Carlo, machine learning and/or other areas. The successful candidate will be expected to cultivate collaborative research relationships with faculty in biology, health sciences, and may also collaborate with applied mathematics.

Other qualifications include: (1) Quality, importance, and impact of past and current research in an area of biostatistics as judged by publications, awards, and letters of recommendation. (2) External funding history or potential for obtaining external funding. (3) Likely importance and impact of future research as judged by research plan and letters of recommendation. (4) Research interests that complement and strengthen those of current faculty in the biological sciences. (5) Potential ability to mentor graduate and/or post-graduate students and to contribute to graduate education and training, particularly of minorities underrepresented in health and STEM fields. (6) Potential effectiveness as an educator at both undergraduate and graduate levels based on teaching statement, experience, teaching evaluations, and letters from former students (as available).

Salary: Negotiable, based on UC Academic Salary Scales

Closing Date: 12/10/2012

To Apply: Interested applicants are required to submit 1) a cover letter 2) curriculum vitae 3) statement of research 4) statement of teaching and 5) a list of three references with contact information including mailing address, phone number and e-mail address.

Please do not submit individual letters of recommendation. Formal letters will be requested of candidates who advance to the next phase of the search.

Visit http://jobs.ucmerced.edu/n/academic/-position.jsf?positionId=3D4252 to submit your application.

For more information: Professor Miriam Barlow (search committee chair): mbarlow@ucmerced.edu

– David H. Ardell 5200 North Lake Road, School of Natural Sciences, University of California, Merced CA 95343 office: SE 228 // (209) 228-2953 // fax: (209) 228-4675 // http://compbio.ucmerced.edu/ardell dardell@ucmerced.edu

UCopenhagen Bioinformatics

Bioinformatician position

Funded by the Danish Council for Independent Research at Center for Macroecology, Evolution and Climate, Department of Biology, University of Copenhagen within the research theme of Phylogeography, extinctions and global climate change.

This position is funded by the Danish Council for Independent Research within a "Sapere Aude" grant entitled "Species Extinctions under Climate Change: Re-evaluating Extinction Risk" (EXTINCTIONs). EXTINCTIONs aims at assessing past and current population dynamics and extinction processes and how can this knowledge about the past help to better predict the future impacts of global change in biological diversity. A significant aspect of the project will involve relating SDMs and paleoclimate simulations to population genetic/phylogeographic data to investigate the relationship between population size and geographic range size over evolutionary time-scales.

We are seeking a dedicated bioinformatician to fill a one-year support position for this project. The successful candidate will provide bioinformatics solutions to the EXTINCTIONs team members, with the main tasks of downloading, managing and analyzing phylogeographic/population genetic data from public databases (GENBANK, NCBI, EMBL), with the aim of building a phylogeographic dataset for a variety of different taxa (plants and animals) across different biomes. The bioinformatician will also work together with a PhD student and a post-doctoral researcher to implement population genetic and phylogeographic analyses, and will provide support for other bioinformatic needs as they arise.

The successful candidate will have a BSc or MsC (PhDs are also welcome to apply) in computer science and/or molecular biology. Although the position is not a post-doctoral position, we would be happy to consider candidates with a PhD in population genetics who would be interested in pursuing postdoctoral funding to continue these research lines.

Applicants must have experience in gathering large dataset from public DNA databases. The successful applicant will be competent in the programming languages Perl, Java, Python, C or C++ and will be comfortable working in a UNIX environment. Experience with bioinformatic tools like BIO++ or BIOPearl would clearly be an advantage.

We will also strongly consider applicants with in bioinformatics and statistical phylogeographic analyses, including likelihood-based or Bayesian coalescent modelling (such as ABC and HABC models).

Good English communication and writing skills are essential.

Place of Employment: The bioinformatician will be employed by the University of Copenhagen and will work at the Center for Macroecology, Evolution and Climate (CMEC), a Center of Excellence directly funded by the Danish National Research Foundation and comprising 40 researchers from 16 different countries working on multi-disciplinary research line http://-/macroecology.ku.dk/ < http://macroecology.ku.dk/- > . CMEC is also part of the Section for Ecology and Evolution within the Department of Biology, a dynamic research environment containing two Centers of Excellence and a successful track record of graduating Masters and PhD students and hosting postdoctoral researchers from all over Europe, North America and Asia. Within CMEC, the Phylogeography and Extinction Theme < http://macroecology.ku.dk/-phylogeography/ > is a key area of research focus over the next few years.

Salary and conditions Employment will be as Academic/Technical staff and will be time limited for 1 year. Working hours will be 37 hours per week in average. Terms of appointment and payment are in accordance with the collective agreement between The Danish Confederation of Professional Associations and the Danish Ministry of Finance and are settled due to years of seniority and are furthermore negotiable in regard to qualifications.

Contacts: Applicants seeking further information are invited to contact: Associate Professor David Nogués-Bravo, phone +45 35321314 email: dnogues@bio.ku.dk

Application Procedures: Applicants are requested to submit their application electronically including a cover

letter which explains your motivation for the project, a curriculum vitae including contact information, qualifications, software experience and technical expertise, one reference letter and the diploma and transcripts of your grades.

Applications should be submitted no later than December 1st.

Apply here

— / —

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

UExeter ConservationBiol

Job title : Lecturer(s) in Biosciences Job reference : P00033 Application closing date : 15/11/2012 Location : Cornwall, UK Salary : £31,948 - £39,257 per annum Package : Generous holiday allowances, flexible working, pension scheme, car lease scheme and relocation package (if applicable) Job category/type : Academic

Job description :

College of Life and Environmental Sciences

The University of Exeter has been named University of the Year in The Sunday Times University Guide 2013 and has now risen to 7th place in The Sunday Times league table. In the 2012 NSS we are ranked 6th out of all 'full service' universities, and have just joined the Russell Group of leading research-intensive institutions. During the course of the next 12 months we will be building on our very considerable strengths with a further round of academic appointments and as part of this campaign, the College of Life and Environmental Sciences is now seeking to make up to three new appointments at lecturer level in Biosciences, either based on our Streatham Campus in Exeter or in our team in the Centre for Ecology and Conservation (CEC) on Exeter's Cornwall Campus

The post of Lecturer in Biology will contribute to extending the research profile of the Centre for Ecology and Conservation at Exeter's Cornwall Campus, particularly in areas related or complementary to Molecular Ecology, Human Ecology, Disease or Conservation Biology, although we will favourably consider good applicants from other areas.

The successful applicant will hold a PhD in Biology or an associated area and have an independent, internationally-recognised research programme in an active field of biological research related or complementary to existing Exeter strengths. He/she will be able to demonstrate the following qualities and characteristics; a strong record in attracting research funding, or demonstrable potential to attract such funding, teamwork skills to work in collaboration with existing group members, an active and supportive approach to inter-disciplinary and multi-disciplinary research that will help to foster interactions and links both within the University and externally, the attitude and ability to engage in continuous professional development, the aptitude to develop familiarity with a variety of strategies to promote and assess learning and enthusiasm for delivering undergraduate programmes.

For further information about the jobs please contact Professor David Hosken, Professor of Evolutionary Biology and Director of the Centre for Ecology and Conservation, 01326 371843 or email D.J.Hosken@exeter.ac.uk.

To view the Job Description and Person Specification document please click here.

Interviews are expected to take place on in the week commencing 10 December 2012.

The University of Exeter is an equal opportunity employer which is 'Positive about Disabled People'. Whilst all applicants will be judged on merit alone, we particularly welcome applications from groups currently underrepresented in the workforce.

Prof DJ Hosken Chair in Evolutionary Biology Director, Centre for Ecology & Conservation Biosciences, College of Life & Environmental Sciences University of Exeter, Cornwall Campus Tremough, Penryn, TR10 9EZ UK

d.j.hosken@exeter.ac.uk 01326 371843 http://biosciences.exeter.ac.uk/staff/index.php?web_id=david_hosken DJ Hosken <D.J.Hosken@exeter.ac.uk>

UGoettingen PlantEvolution

The Department of Systematic Botany, Albrecht-von-Haller-Institute for Plant Sciences, Faculty of Biology incl. Psychology at the Georg-August-University Göttingen is looking to fill the position of

Assistant Position

EG 13 TV-L (100%) for five years, as temporary vacation replacement. The position can be tenured after cancellation of the present position holder.

Your duties:

Independent scientific work in the field of *molecular Systematics and Evolution* of flowering plants

Contribution to projects of the Department and supervision of undergraduate and graduate students

Teaching within the undergraduate and graduate lecture program of the Department

Collection management of the herbarium GOET, including fund raising with relevance for the collection

Your qualification:

Doctorate or PhD in Systematic Botany and at least 2 years postdoc experience

International publication record in *molecular systematics and evolutionary botany* (e.g., molecular

phylogenetics, DNA barcoding, DNA fingerprinting, population genetics)

Experience with herbarium collections

Experience in University teaching in Systematics of Embryophytes

Excellent English and German

We offer an interesting job, in a dynamic newly developed team, the opportunity for independent scientific work and further career development, modern laboratories, and technical staff for the administration of the herbarium.

The position offers the opportunity for further qualification and obtaining a habilitation.

The University of Göttingen is an equal opportunities employer and places particular emphasis on fostering career opportunities for women. Qualified women are therefore strongly encouraged to apply as they are underrepresented in this field. Disabled persons with equivalent aptitude will be favoured.

Applications with CV, publication list and motivation letter should be sent as hardcopy and pdf until 15ˆth November 2012 to:

Prof. Elvira Hoerandl, Georg-August-Universität Göttingen, Albrecht-von-Haller-Institut, Abteilung Systematische Botanik,

Untere Karspuele 2, 37073 Goettingen, Email: elvira.hoerandl@biologie.uni-goettingen.de

We request that you send us copies of your application documents. We will destroy the documents after a holding period of five months. Application documents will only be returned to you if you provide a self-addressed adequately stamped envelope.

Prof. Dr. Elvira Hoerandl University of Goettingen Albrecht-von-Haller Institute for Plant Sciences Department of Systematic Botany Untere Karspuele 2 37073 Goettingen Germany Phone: +49 (0)551 / 39-7843 Fax: +49 (0)551 / 39-22329 http://www.uni-goettingen.de/de/staff/185774.html Elvira Hoerandl <elvira.hoerandl@biologie.uni-goettingen.de>

UIdaho EvolutionaryBiology

Assistant Professor, Evolutionary Biology

The Department of Biological Sciences at the University of Idaho seeks to build on existing strengths in evolutionary biology by inviting applications for a tenure-track position at the rank of assistant professor to begin in the fall of 2013. Preference will be given to individuals with research interests in evolutionary biology complementary to those of others in the department (http://www.uidaho.edu/sci/biology). Applications from individuals pursuing broad questions of general importance are particularly encouraged. The Department of Biological Sciences houses the Institute for Bioinformatics and Evolutionary Studies (IBEST), and enjoys productive interactions with faculty at nearby Washington State University. The successful candidate will receive a competitive salary and start-up package, and will be expected to contribute to the undergraduate and graduate curriculum. A Ph.D. in Biology or related field, a strong record of peer-reviewed publication, and a clear plan to develop an externally funded research program are required. Demonstrated ability to secure external funding, postdoctoral experience, teaching experience, and an ability to clearly communicate scientific ideas and principles are desired. Review of applications will begin November 2.

To apply, complete the online application which should soon be available on the University of Idaho's employment page using the following link: (https://-www.sites.uidaho.edu/AppTrack/Agency/Applicant/-CurrentOpenings.asp? category=4).The online application should allow a Cover letter, Curriculum vitae, Research prospectus, Teaching prospectus, and Names and contact information for three references to

be uploaded.

For questions regarding the application process, please send an e-mail to Gina Tingley at biofac@uidaho.edu

Scott Nuismer Associate Professor Department of Biological Sciences University of Idaho Moscow, ID 83844

snuismer@gmail.com

UIllinois HostParasiteInteractions

Harley Jones Van Cleave Professor Host-Parasite Interactions Department of Animal Biology School of Integrative Biology University of Illinois at Urbana-Champaign

The Department of Animal Biology and the School of Integrative Biology at the University of Illinois, Urbana-Champaign seek a highly qualified candidate for the Harley Jones Van Cleave Professor of Host-Parasite Interactions. This Professorship was made possible by the generous gift of David R. and Margaret Stirewalt Lincicome. This is a full-time faculty position at the rank of Associate or Full Professor with credentials warranting tenure at the University of Illinois. We seek a broadly trained biologist who has a well-established, internationally renowned, externally funded research program in any aspect of host-parasite interactions, including but not limited to coevolutionary interactions, the molecular, physiological, developmental, or immunological bases of such interactions, effects on host behavior, life histories, population dynamics, conservation biology, or alterations in such interactions caused by global change.?We welcome empirical and theoretical approaches. The successful candidate will have the opportunity to be part of dynamic and well-established communities of integrative biologists with interests spanning a wide range of taxa in the School of Integrative Biology, as well as in a number of interdisciplinary programs across the campus. Responsibilities also include teaching and participation in both undergraduate and graduate training. The successful candidate must have a Ph.D. in biology or related discipline. Salary is commensurate with qualifications and experience. Target start date is August 16, 2013 but is negotiable.

To ensure full consideration, please create your candidate profile through http://go.illinois.edu/-LincicomeProf and upload your application letter, curriculum vitae, summary of research and plans, teaching philosophy and experience, and contact information for three professional references by November 16, 2012. ?After a review of the research record, the search committee may then contact the applicant about soliciting letters of reference. Applicants may be interviewed before the closing date; however, no hiring decision will be made until after that date. For further information contact Host-Parasite Interactions Search Chair, sib@life.illinois.edu. Illinois is an Affirmative Action /Equal Opportunity Employer and welcomes individuals with diverse backgrounds, experiences, and ideas who embrace and value diversity and inclusivity. (www.inclusiveillinois.illinois.edu).

Becky Fuller <fuller@life.illinois.edu>

UMiami Florida EndowedChairWaterbirdConservation

Kushlan Chair in Waterbird Biology & Conservation at the University of Miami

The Kushlan Chair's research is to focus on the biology and conservation of waterbirds (including marine birds), primarily at the organismal level. It is desirable that the incumbent use (or use in collaboration) modern integrative approaches such as physiological, genetic, isotopic, or molecular methods. The research program is expected to be extramurally funded and at the cutting edge of important questions on the biology and conservation of waterbirds.

The chosen individual will hold joint appointments at the University of Miami, Coral Gables, FL: 1) In the Biology Department in the College of Arts and Sciences, an integrated biology department in which the Kushlan Chair will be the third of four endowed chairs to be held by an ornithologist, creating an outstanding opportunity for synergy. 2) In the Marine Biology and Fisheries Department at the renowned Rosenstiel School of Marine and Atmospheric Sciences which offers a rich variety of research venues.

Applications received by December 3, 2012 will receive the fullest attention. Send applications (Letter of interest, research and teaching statements, CV and referee names, as a single pdf file) to kushlanchair@bio.miami.edu Applications are particularly encouraged from women and minorities.

J. Albert C. Uy Aresty Chair in Tropical Ecology Associate Professor Department of Biology University of

Miami 1301 Memorial Drive 202/204 Cox Science Center Coral Gables, FL 33146, U.S.A.

Office: 305.284.8558 Lab: 305.284.3039

http://www.bio.miami.edu/uy/ "J. Albert C. Uy" <uy@bio.miami.edu>

UMichigan Dearborn TeachingEvolution

University of Michigan-Dearborn

Lecturer (Introductory Biology): Full-time continuing position. Duties will include collaborating with other faculty members in teaching labs and lectures in the multi-section Introduction to Organismal and Environmental Biology course and occasional labs in Introduction to Molecular and Cellular Biology . A master's or doctoral degree in biology and previous teaching experience are required. Preference will be given to candidates with a background in science pedagogy.

Email a cover letter, curriculum vitae, a statement of teaching philosophy, and the names of three references as a single PDF attachment file to: natsci â faculty-search@umd.umich.edu

Please include "Biology Lecturer Search" in your subject line. Review of applications will begin November 19, 2012.

For further information, please see: http://-www.casl.umd.umich.edu/naturalsciences/ Dr. Emily Saarinen Assistant Professor Department of Natural Sciences University of Michigan - Dearborn 4901 Evergreen Road Dearborn, MI 48128

(313)593-5027

esaarin@umd.umich.edu

UMontreal 2 EvolutionaryEcol

Hello All,

The Department of Biological Sciences at the University of Montreal, Quebec, is looking for candidates to fill two professorial positions: i) Aquatic Ecosystem Management, and ii) Plant Ecology and Ecophysiology. Though we are not searching specifically for people in evolutionary biology, the jobs are open to researchers who wish to create an evolutionary program.

1. Professor of Plant Ecology and Ecophysiology

Posted: October 12, 2012 The Department of Biological Sciences invites applications for a full-time tenure-track position as Assistant Professor in Plant Ecology and Ecophysiology.

Responsibilities The successful candidate will be expected to teach at all three levels of the curriculum, supervise graduate students, engage in ongoing research and publication, and contribute to the academic life and reputation of the University.

The candidate will develop an innovative research program using ecophysiological approaches to study plant function in relation to the abiotic and biotic environment. The research may be conducted at different levels, ranging from individual plants to ecosystems.

Requirements Ph.D. in plant ecology, plant ecophysiology or in a related field. Postdoctoral experience is an asset. Strong publication record in international journals with high visibility. Interest in interdisciplinary research and openness to collaboration with members of the Department of Biology and other departments in the University. Excellent aptitude for teaching in higher education and incorporating new technologies. Proficiency in the French language. The Université de Montréal is a French-speaking university with an international reputation. French is the teaching language. To renew its faculty, the University is intensively recruiting the world's best specialists. In accordance with the institution's language policy: http://secretariatgeneral.umontreal.ca/fileadmin/-user_upload/secretariat/doc_officiels/reglements/-administration/adm10-34_politique-linguistique.pdf, the Université de Montréal provides support for newly-recruited faculty to attain proficiency in French.

Salary The Université de Montréal offers competitive salaries and a complete range of employee benefits.

Starting Date June 1, 2013

Deadline The complete application, including cover letter, curriculum vitae, a description of the research program (2 pages max.), copies of 3 recent publications, and a statement of teaching philosophy must be received at the address below by December 3, 2012.

Three letters of recommendation are also to be sent directly to the selection committee at the following address:

Comité de sélection/écologie et écophysiologie végétale a/s de Martine Girard Département de sciences bi-

ologiques Université de Montréal C. P. 6128, succursale Centre-ville Montréal (Québec) H3C 3J7 Courriel : martine.girard.3@umontreal.ca Téléphone : 514-343-6878 For more information about the Department of Biological Sciences, please consult the Web site at: http://www.bio.umontreal.ca/index.html . Confidentiality

The Université de Montréal application process allows all regular professors in the Department to have access to all documents unless the applicant explicitly states in her or his cover letter that access to the application should be limited to the selection committee. This restriction on accessibility will be lifted if the applicant is invited for an interview.

Employment Equity Program

The Université de Montréal upholds the principles of employment equity and welcomes applications from women, ethnic and visible minorities, aboriginals and people with disabilities. All applicants are asked to complete the employment equity identification questionnaire posted at http://www.fas.umontreal.ca/affaires-professorales/documents/quest-acces-emploi-EN.pdf and attach it to their application.

Immigration Requirements

In compliance with Canadian immigration requirements, priority shall be given to Canadian citizens and permanent residents.

2. Professor of Aquatic Ecosystem Management

Posted: October 10, 2012 The Department of biological sciences is seeking applications for a full-time tenure-track professor position at the rank of assistant, associate or full professor in aquatic ecosystem management. The appointed candidate will be nominated for the Canada Research Chairs program, Tier I. Applications must include a summary of the candidate's research program, in concordance with the form found at:

— / —

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

UNevda Reno GenomeBiology

The Department of Biology at the University of Nevada, Reno seeks to hire a GENOME BIOLOGIST at the assistant professor level, tenure-track. Of particular interest are genomic applications in non-model organisms within the context of behavior, ecology and evolutionary biology. Areas of expertise could include the study of genome structure and function, population and phlyogenomics, and epigenetics, including gene-environment interactions. The successful candidate is expected to maintain a nationally recognized, extramurally funded research program, to train PhD students, and to participate in undergraduate teaching. The Biology Department has 1200 majors, 50 graduate students, 24 state-funded faculty, and averages $4 million/yr in extramural awards. Reno is located in the Sierra Nevada mountains near Lake Tahoe and was recently rated one of the best small cities in the US for outdoor recreation and overall quality of life. Go to https://www.unrsearch.com/postings/11500 to submit application materials, including an application letter, CV, research plans, teaching interests, and contact information for three references. Applications received by November 5, 2012 will receive full consideration.

The University of Nevada, Reno is committed to Equal Employment Opportunity/Affirmative Action in recruitment of its students and employees and does not discriminate on the basis of race, color, religion, sex, age,creed, national origin, veteran status, physical or mental disability, and sexual orientation.

Equal Employment Opportunity/Affirmative Action. Women and underrepresented groups are encouraged to apply.

Matthew L Forister Assistant Professor Dept. of Biology / MS 314 1664 N. Virginia St. University of Nevada, Reno Reno, Nevada 89557

Office 257 Fleischmann Life Sciences (775) 784 - 6770

forister@gmail.com

UNorthCarolina ChapelHill EvolutionaryBiol

Faculty Position in Evolutionary Biology University of North Carolina at Chapel Hill

The UNC-Chapel Hill Department of Biology seeks a tenure-track ASSISTANT PROFESSOR IN EVOLUTIONARY BIOLOGY. We seek individuals addressing fundamental questions in evolutionary biology, working with any taxonomic group and methodological approach. Applications from those working in any area of

evolutionary biology are welcomed. The successful candidate will interact with the diverse community of biologists within the Biology Department and across the university, and will complement ongoing initiatives in Quantitative Biology, Genomics, and Environment and Ecology. To learn more about the department and the university, visit http://www.bio.unc.edu. Questions regarding the position should be directed to Karin Pfennig (kpfennig@unc.edu).

TO APPLY: Click on http://unc.peopleadmin.com/postings/8697 from any internet browser to apply for this position and submit a cover letter, a CV, a research statement (<4 pages; 1 inch margins), and a teaching statement (<2 pages; 1 inch margins); up to three reprints may also be submitted as a single pdf file. Four letters of reference are required, and may be submitted on official letterhead with electronic signature to cpasternak@bio.unc.edu. Review of applications will begin November 15, 2012 with interviews occurring in early 2013. The position will be effective on or after July 1, 2013. The successful candidate must have a Ph.D. in a relevant field.

Diversity, inclusiveness and civility are core values and characteristics of the University of North Carolina, and we strongly encourage applications from diverse individuals. The University of North Carolina is an equal opportunity employer.

Corbin D. Jones, Ph.D. Department of Biology Carolina Center for Genome Sciences Campus Box 3280, Genome Sciences Building UNC-Chapel Hill Chapel Hill, NC 27599-3280

Corbin Jones <cdjones@email.unc.edu>

UOregon Genomics Bioinformatics StatGenetics

As seen in the 05 October issue of Science:

UNIVERSITY OF OREGON

Faculty Positions in Genomics, Bioinformatics, Statistical Genetics

The Departments of Biology (http://biology.uoregon.edu) and Mathematics (http://math.uoregon.edu) at the University of Oregon announce a cluster hire of up to three tenure-related faculty positions in Fall 2013. One of these positions may be at the level of Associate or Full Professor with indefinite tenure. These hires are part of an integrated effort to strengthen research and scholarship at the nexus of statistics/mathematics and biology at the University of Oregon, and will serve as a catalyst for future growth in this area. We are broadly interested in recruiting candidates working in areas developing statistical methodology related to the life sciences. Examples of these areas include, but are not limited to, statistical analysis of large data sets, algorithms for analyzing sequence data, and stochastic models for neuroscience, population genomics and molecular evolution. Successful candidates will bolster our emerging strengths in biomathematics, maintain an outstandi ng research program that focuses on solving core problems in this area, and have a commitment to excellence in teaching. Ph.D. required. Position responsibilities include undergraduate teaching.

Interested persons should apply online to the MATH-BIO SEARCH, University of Oregon athttps://www.mathjobs.org/jobs/jobs/4035. Applicants should submit a cover letter, a curriculum vitae including a publication list, a statement of research accomplishments and future research plans, a description of teaching experience and philosophy, and three letters of recommendation. Ideally the research description and at least one of the letters of recommendation would include descriptions of the statistical/mathematical tools or models used in the applicant's research. To ensure consideration, application materials should be uploaded by November 15th, 2012, but the search will remain open until the positions are filled.

Women and minorities are encouraged to apply. The University of Oregon is an Equal Opportunity/Affirmative Action Institution committed to cultural diversity and compliance with the Americans with Disabilities Act, and supportive of the needs of dual career couples. We invite applications from qualified candidates who share our commitment to diversity.

Patrick C. Phillips, Ph.D. Associate Vice President for Research Professor of Biology Institute of Ecology and Evolution Email: pphil@uoregon.edu Phone: (541) 346-0916 | FAX (541) 346-2364 Address: 5289 University of Oregon Eugene, OR 97403-5289 USA Web: Lab http://www.uoregon.edu/~pphil IEE http://evolution.uoregon.edu

pphil@uoregon.edu

UOxford EvolutionTreeDiseases

Research Technician at the University of Oxford/ tree disease

A full time one-year position for a research technician in the field of ecology is available at the Departments of Plant Sciences and Zoology at the University of Oxford. The research technician will work within the framework of a collaborative research project between the Departments of Plant Sciences and Zoology. The general framework of this project aims to identify determinants that contribute to the spread of the bacterial agent of horse chestnut bleeding canker and evaluate the likelihood that this spread is linked to the recently introduced leaf mining moth Cameraria ohridella and/or other bacterial symbionts.

The position will include both field and laboratory work, including the collection of samples and recording of data along transects across the United Kingdom. The candidate must be able to spend a good portion of the field season (Spring and Summer) away from home and a valid driving license is required. Samples will be analyzed using PCR and standard sequencing techniques, so candidates with molecular skills are encouraged to apply.

The following elements are requested: - At least a BSc in biology or a related field - A valid driving license - The work will take place in a stimulating research environment, with opportunity to contribute to the development of the direction of the research.

For practical information concerning salaries, benefits, insurances and conditions of eligibility please contact Roosa Leimu (see below). Applications will be reviewed directly until position is filled. Anticipated start date is April 2013. Our University is an Equal Opportunity/Affirmative Action Employer.

Application should be sent to Roosa Leimu (roosa.leimu@plants.ox.ac.uk) and include the following: (1) a cover letter describing your research interests and qualifications, (2) a full CV, (3) contact information (email, phone number) of minimum 2 referees. Please include ≪ Technician application ≫ in the subject line of the e-mail. Informal inquiries are welcome.

Dr Roosa Leimu Department of Plant Sciences, University of Oxford South Parks Road, Oxford OX1 3RB, UK roosa.leimu@plants.ox.ac.uk, +44-1865-2-75020

Roosa Leimu <roosa.leimu@plants.ox.ac.uk>

UPugetSound EvolutionaryEcolGenetics

Faculty Appointment/Staff Status: Full-time, 3-year visiting position; begins Fall Term 2013

Responsibilities: We seek a biologist with expertise in evolutionary and ecological genetics. The individual will teach an upper-level course in Evolution and develop an upper-level course in evolutionary and ecological genetics. Other teaching responsibilities could include a core course in Biology (Unity of Life, Diversity of Life, General Ecology), an interdisciplinary university core course, or another upper-level course in his/her area(s) of expertise. A typical teaching load consists of 2 lecture classes and 2 lab sections, or 1 lecture class and 3 lab sections per semester. Preference will be given to individuals who demonstrate interest in and potential for contributing to our undergraduate research program. Lab space and other resources are available.

Qualifications: Ph.D. in Biology, with a strong commitment to undergraduate teaching and to liberal arts education. Post-doctoral experience and/or teaching experience is desirable.

Commitment to Diversity: Puget Sound is committed to an environment that welcomes and supports diversity. We seek diversity of identity, thought, perspective, and background in our students, faculty, and staff. Please view the University Diversity Statement at http://www.pugetsound.edu/about/diversity-at-puget-sound/university-diversity -statement/

Compensation/Benefits: Rank: Visiting Assistant Professor

Salary is commensurate with education and experience.

Puget Sound offers a generous benefits package. For more information, visit http://www.pugetsound.edu/-about/offices–services/human-resources/benefits/ Application Deadline Information: Search and selection procedures will be closed when a sufficient number of qualified candidates have been identified. Interested individuals are encouraged to submit application materials no later than November 1, 2012 to ensure consideration.

Find details at: https://www.pugetsound.jobs for the EVOLUTIONARY AND ECOLOGICAL GENETICS

(Visiting Assistant Professor)position

Peter H Wimberger <pwimberger@pugetsound.edu>

URhodeIsland MarineInformatics

Assistant Professor (Marine Informaticist) The University of Rhode Island is seeking a tenure-track Assistant Professor in the College of the Environment & Life Sciences (CELS), with research interests in bioinformatics as applied to marine organisms and/or ecosystems. Applicants are expected to develop a strong and externally funded research program focused on bioinformatics of marine organisms and/or ecosystems. Candidates developing approaches that combine ecological or evolutionary data with genomederived data are especially encouraged to apply. Responsibilities include teaching an undergraduate class focused on management and analysis of large biological data sets, plus other courses that enhance interdisciplinary undergraduate and graduate programs. Anticipated appointment will be August 1, 2013. Visit the Colleges website http://cels.uri.edu for more information on the Colleges programs. There are numerous opportunities for collaborative research with investigators in CELS, the Graduate School of Oceanography, the Department of Computer Science & Statistics, the College of Engineering, and the College of Pharmacy. Applications must be submitted online by visiting the URI jobs website at (https://jobs.uri.edu) and to view complete details for job posting (#6000940). Review of applications will begin November 15, 2012 and will continue until the position is filled. Please attach the following (PDF) documents to the online Faculty Profile Application: (1) Cover letter, (2) CV which includes the names and contact information for three references, (3) a research statement, and (4) a statement of teaching philosophy. APPLICATIONS WILL BE ACCEPTED BY ELECTRONIC SUBMISSION ONLY. For more information, contact Dr. Bethany Jenkins, Search Chair, Associate Professor, Department of Cell and Molecular Biology, URI, Kingston, RI 02881 (marinfo@etal.uri.edu). The University of Rhode Island is an AA/EEOD employer and values diversity.

Chris Lane <clane@mail.uri.edu>

USDA Peoria IL ComputationalBiologist

Interdisciplinary: Research Computational Biologist/Plant Pathologist/Geneticist, GS-11/12

Salary Range of $68,809 to $106,369

The Bacterial Foodborne Pathogens and Mycology Research Unit (BFP) of the USDA Agricultural Research Service in Peoria, IL, is searching for an outstanding candidate to fill a full time-permanent research scientist position (Research Computational Biologist/Plant Pathologist/Geneticist). The incumbent will initiate a new research program focused on comparative and functional genomics of Fusarium and other mycotoxigenic and plant-pathogenic fungi. Research objectives are to utilize next generation sequencing technologies to conduct comparative and functional genomic analyses of Fusarium and other mycotoxigenic fungi in order to elucidate the genetic factors critical to mycotoxin production, plant pathogenesis, and other critical aspects of pathogen biology; test hypotheses concerning the origin, evolution, phylogenetic distribution, and functional significance of genetic/metabolic variation within these fungi; and contribute to the development of novel tools for molecular diagnostics and management of mycotoxigenic fungi. The incumbent will be required to publish research results in peer-reviewed journals and provide supervision for support staff as assigned. The vacancy announcement will close on Monday, October 15, 2012. The link to the announcement is https://www.usajobs.gov/-GetJob/ViewDetails/326528700 . Todd J. Ward, Ph.D. Research Leader Bacterial Foodborne Pathogens and Mycology USDA-ARS 1815 N. University St. Peoria, IL 61604

Office: (309) 681-6394 Cell: (309) 229-8875

“Ward, Todd” <Todd.Ward@ARS.USDA.GOV>

UToronto Mississauga SystemsBiology

Assistant Professor - Integrative Animal Biology (Job

1201407)

The University of Toronto Mississauga (UTM), Department of Biology, invites applications for a tenure track faculty position at the rank of Assistant Professor, effective July 1, 2013. We are searching for an outstanding integrative animal biologist who studies organisms in their environment and encourage applications from candidates whose own research would complement existing departmental research strengths. These areas may include comparative physiology, neurophysiology, sensory systems, endocrinology, neuroethology or systems biology. In addition, excellent opportunities for collaboration exist within the Department of Biology and with other departments at UTM, such as Psychology, Chemical and Physical Sciences, and Geography and with faculty at other campuses of the University of Toronto. We particularly value an individual who undertakes interdisciplinary research and seeks interactions with colleagues from different fields within biology, as well as allied scientific disciplines.

The successful applicant must have a Ph.D., demonstrate research excellence, and must be able to effectively recruit and supervise graduate students. The applicant must show evidence of excellence in teaching at the undergraduate level, and is expected to contribute to the teaching program of the department. Salary will be commensurate with qualifications and experience. The appointee will be located in the Department of Biology, University of Toronto Mississauga, and will also be a member of the tri-campus graduate Department of Cell and Systems Biology and/or the Department of Ecology and Evolutionary Biology.

Applications should include a cover letter, curriculum vitae, teaching dossier (including a statement of teaching philosophy), a statement outlining current and future research interests and three representative publications. All application materials should be submitted online.

For further details and to apply online please visit https://utoronto.taleo.net/careersection/10050/-jobdetail.ftl?lang=3Den&job=1201407 .The University of Toronto application system can accommodate up to five attachments (10 MB) per candidate profile. Please combine attachments into one or two files in PDF/MS Word format. Submission guidelines can be found at: http://uoft.me/how-to-apply . Applicants should also ask [at least] three referees to send letters directly to the department via email to biochair.utm@utoronto.ca by the closing date, December 12, 2012. For further information on the Department see http://www.utm.utoronto.ca/biology 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. All qualified candidates are encouraged to apply; however, Canadians and permanent residents will be given priority.

marc.johnson@utoronto.ca

UWyoming EvolutionaryBiol

University of Wyoming Position Opening: Assistant Professor, Zoology and Physiology Position Number: 0798

The Department of Zoology and Physiology at the University of Wyoming invites applications for a full-time tenure-track FACULTY POSITION in Zoology and Physiology to start August 2013. The position is at the Assistant Professor rank at the University of Wyoming/Casper College Center (website: http://www.uwyo.edu/outreach/uwcc). We seek candidates with a PhD in the biological sciences with undergraduate teaching experience and potential to develop a research program that involves undergraduate students. The successful candidate will be expected to teach courses in evolutionary biology, genetics, writing in biology, and vertebrate biology (mammalogy and possibly either ornithology, herpetology, or ichthyology) and to contribute to the NIH funded Wyoming IDeA Networks for Biomedical Excellence (INBRE) program (http://www.wyominginbre.org).

Interested applicants should email a curriculum vita, statement of research and teaching interests, three publications, and provide names and contact information for three references as pdf files to sseville@uwyo.edu with the subject header UW/CC Zoology Search Committee.

Review of applications will begin on November 26, 2012 and continue until the position is filled. The University of Wyoming is a Carnegie Foundation Research Doctoral Extensive Institution. The University of Wyoming is committed to diversity and endorses principles of affirmative action. We acknowledge that diversity enriches and sustains our scholarship and promotes equal access to our educational mission. We seek and welcome applications from individuals of all backgrounds, experiences, and perspectives.

Contact Information: Dr. R. Scott Seville Department of Zoology & Physiology sseville@uwyo.edu

The University of Wyoming is dedicated to ensuring a safe and secure environment for our faculty, staff, students and visitors. To achieve that goal, we will conduct a background investigation on the successful candidate.

"Robert S. Seville" <SSeville@uwyo.edu>

WesternAustralia FieldAssist Finches

Field assistant: Aggression in colonial finches

East Kimberley, Western Australia

January to April 2013

We are looking for a field assistant to help with a project investigating aggression in crimson finches. Field work will be conducted in the East Kimberley region of Western Australia from January to April 2013 (specific dates may vary). This is the wet season in the tropics and temperatures may reach 40oC with very high humidity. Volunteers will be involved with catching and banding birds, locating and monitoring nests, behavioural observations, re-sighting colour bands, habitat assessment and data entry. You will need to be prepared for early mornings 6 days a week, long hours in tropical conditions (including wading through creeks and long walks over rocky terrain), sharing cooking duties, living and working in a small team and have a good work ethic. Desirable qualifications include experience with behavioural studies, re-sighting colour bands and mist-netting. Accommodation and travel within Australia will be covered however the volunteer will provide their own food and international travel (the latter may be negotiable for the right candidate). To apply please contact Catherine at The Australian National University; Catherine.Young AT anu.edu.au outlining your suitability for the role, relative experience and two references.

Deadline: November 15th 2012

Catherine Young PhD Candidate Research School of Biology Australian National University Canberra ACT

Catherine Young <catherine.young@anu.edu.au>

Other

Ageing Database

Dear Colleagues,

I thought you may be interested to learn of our AnAge database of ageing and longevity in animals. We have recently released build 10 with over 4,200 species and over 3,500 longevity records.

In addition to longevity records, which continue to be our main focus and we make a great effort to verify their authenticity, AnAge features one of the most comprehensive collections of quantitative life history data (age at sexual maturity, litter (or clutch) size, adult body weight, etc.) in animals. Metabolism data is also available for hundreds of species of birds and mammals.

AnAge is available online at: http://-genomics.senescence.info/species/ We hope you will continue to find this resource useful for your research. Comments and suggestions are always appreciated.

With the very best wishes, Joao Pedro

–

Joao Pedro de Magalhaes, PhD

Institute of Integrative Biology Biosciences Building, Room 245 University of Liverpool Crown Street, Liverpool L69 7ZB United Kingdom

Phone: +44 151 7954517; Fax: +44 151 7954408 Integrative Genomics of Ageing Group: http://-pcwww.liv.ac.uk/˜aging/

aging@liverpool.ac.uk

AlleleMeanVar program

Can anyone recommend a program that will calculate allele size mean and variance per locus from a data set of microsatellite allele fragment sizes (not number of repeats). Yes, I can do this in Excel, but it is cumbersome, especially when there is missing data in different places in the spreadsheet.

Thanks, Alan

Alan W. Meerow, Ph.D., Research Geneticist and Systematist USDA-ARS-SHRS, National Germplasm Repository 13601 Old Cutler Road, Miami, FL 33158 USA voice: 786-573-7075; cell: 786-412-1821; FAX: 786-573-7102 email: alan.meerow@ars.usda.gov

“Meerow, Alan” <Alan.Meerow@ARS.USDA.GOV>

AlleleMeanVar program answers

Thank you to everyone who replied to my query about software to calculate mean allele size and variance from SSR data. The majority recommended MSA by DANIEL DIERINGER and CHRISTIAN SCHLÖTTERER (http://i122server.vu-wien.ac.at/MSA/MSA_download.html), and it did just what I wanted. GenAlEx will export an MSA input file from your GenAlEx-formatted spreadsheet.

I hadn't needed these sort of statistics until Pickrell and Pritchard's treemix was released.

Cheers, Alan

Alan W. Meerow, Ph.D., Research Geneticist and Systematist USDA-ARS-SHRS, National Germplasm Repository 13601 Old Cutler Road, Miami, FL 33158 USA voice: 786-573-7075; FAX: 786-573-7110 email: alan.meerow@ars.usda.gov

“Meerow, Alan” <Alan.Meerow@ARS.USDA.GOV>

Biodiversity journal

Dear Colleagues,

We are establishing a next generation platform for publishing biodiversity science and data. The Biodiversity Data Journal (http://www.pensoft.net/journals/-bdj) is a comprehensive online platform designed to accelerate publishing, dissemination and sharing of biodiversity-related data of any kind. Contributions will be accepted on a wide range of biodiversity subjects and will be published in association with major data repositories (e.g. GBIF, Dryad, GenBank) using a number of Biological Code-compliant templates. These templates make it easy to write manuscripts, review text and share data.

In preparation for launching the journal we are seeking editorial specialists with expertise in subjects and data types (e.g. taxon treatments, checklists, genomic-, ecological- and environmental-datasets, analytical methods and software) who can be involved in the innovative reviewing process. Potential editors should

be interested in new ideas, methods and approaches to publishing, sharing and using biodiversity information. Established specialists, post-doctoral researchers and PhD students with relevant experience should not hesitate to apply using the short form linked below:

http://www.pensoft.net/editor_form.html Thanks for your time and apologies for cross-postings,

Dr. Vince Smith

– The Natural History Museum, Cromwell Road, London, SW7 5BD, UK Editor-in-chief, Biodiversity Data Journal (http://www.pensoft.net/journals/bdj/) Coordinator for ViBRANT (http://vbrant.eu), NHM PI for e-Monocot (http://e-monocot.org/)

Web: http://vsmith.info/, http://scratchpads.eu/, http://phthiraptera.info/ Skype, twitter & flickr: vsmithuk; XMPP/Jabber: vince@vsmith.info E-mail: vince@vsmith.info (preferred), Tel: +44 (0) 207 942 5127, Fax: +44 (0) 207 942 5229

Bioinformatics teaching material answers

Hi!

A few weeks ago I asked for teaching material for an introductory course in bioinformatics on evoldir.

Please find the suggestions/answers below. If you want to use any of the suggested material/links, please give the original authors/sources credit and for some of the material you may need to contact them to clarify under which terms you are allowed to use the material. I have not included email addresses here to avoid that contributors receive a lot of spam. However, the affilations and the names are given so that it should be easy enough to find and contact people if needed.

Thanks a lot to all of you who have responded to my inquiry. It is greatly appreciated!

Cornelya

Answers:

1. Ian Dworkin (Michigan State University)

Cornelya,

I saw your post of EvolDir. I have a couple of suggestions. My colleague Titus Brown and I have been teaching a short course (2 week workshop) on the analysis of next generation sequence data. We post all of the materials online for free, including tutorials and some lectures.

http://ged.msu.edu/angus/tutorials-2011/ http://-/ged.msu.edu/angus/tutorials-2012/ We use the Amazon EC2 cloud computing system to run everything (so students do not need any special computer). While you normally have to pay, if you contact Amazon they usually provide 100$ educational credit for EC2 for each student. In 2010 & 2011 we primarily used unix shell scripting and python, while this past summer Titus integrated a fair bit of the ipython notebook framework (which I would not suggest unless you have some familiarity with it. It is great for teaching, but the teacher needs a fair bit of background).

I also highly recommend teaching the tutorials within the context of very simple scripting/programming. This could all be unix shell scripting or in a language like python or R (or perl if that is what you know). The problem with galaxy and other systems is that the point and click model does not real provide any extra added value (like the basics of programming), and since the shelf life of such programs is not so long (3-4 years usually), what is learned can become obsolete quickly. I am not sure what background you have though, so it clearly depends on this.

I am mostly involved with the more statistical side of bioinformatics for expression data and genome mapping, but I can also make some suggestions for materials if you like.

btw.. I am a Trent alum, graduated in 1997. I worked really closely with Carolyn Kapron, Michael Berrill and Jim Sutcliffe. If you see any of them, say hi for me (I saw them all 2 years ago at Michael's retirement party).

Cheers

Ian

2. Lourdes Pena-Castillo (Memorial University of New Foundland)

Hi Cornelya,

I am teaching an introductory course in bioinformatics this fall at Memorial University so I have some teaching material. I am attaching my slides and one lab for the first two topics in your list. For Galaxy I selected a couple of tutorials available on the web starting with Galaxy

101.

In the slides I removed those figures which can't be distributed without

violating copyright, but I left the references so you could get them if you wish to. In the slides U.B.

refers to the textbook Understanding Bioinformatics published by Garland Science (which is the textbook I use).

Figures without a reference are my own figures and you can use those and

my slides under the CC BY-NC-SA 3.0 license (http://-/creativecommons.org/licenses/by-nc-sa/3.0/).

Hope you find this material useful.

All the best,

Lourdes

3. Sarah Stockwell (Cornell University)

Have you tried the ABLE labs? Looks like they have 17 bioinformatics labs in their archive: http://-www.ableweb.org/volumes/archive.htm Cheers,

–Sarah

4. José Lourenço (Oxford University) Dear Cornelya,

I have just read a twit with your request for teaching material. Maybe you should check this page at the University of Oxford:

http://www.stats.ox.ac.uk/research/genome/-teaching5. Pedro Fernandes (Inst. Gulbenkian de Ciência, Oeiras, PT) Hi Cornelya

There are various materials that you can freely download from the BTN website www.biotnet.org Please let me know if you have difficulties or need more.

I have additional stuff, on those and other subjects, but the BTN ones have been checked and rated. Maybe better to start at BTN. My materials are often interdependent, therefore not readily usable as standalone courses.

Cheers Pedro

6. Donald Forsdyke (Queen's University) These links may be of help:

http://post.queensu.ca/˜forsdyke/videolectures.htm

— / —

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

CallSymposiaProposals SocietySystBiology

Call for Proposals.

The Society of Systematic Biologists would like to issue a call for proposals for Symposia to be held at the 2013 Evolution Meeting in Snowbird, UT. The society will sponsor two symposia, each consisting of 4-6 talks to occur over two sessions (i.e., during the morning or afternoon). We are now soliciting proposals. Organizers of proposals should include a short description of the organizing theme of the proposed symposium, a list of speakers with affiliations, and contact information for the organizers. Funds are available to defer travel costs for speakers. Members who are interested in submitting a proposal are encouraged to contact the program chair prior to submission, either in person at the 2012 meeting or electronically. To submit a proposal, please send a pdf of the proposal to Bryan Carstens (carstens.12@osu.edu) by October 15th, 2012.

Bryan C. Carstens Department of Evolution, Ecology, & Organismal Biology The Ohio State University 318 W. 12th Avenue Columbus, OH 43210-1293

web: http://carstenslab.org.ohio-state.edu/ web: https://sites.google.com/site/bryanccarstens/ skype: bryan_carstens office: 614.292.6587 cell: 734.474.8527

Bryan Carstens <bryan.c.carstens@gmail.com>

Drosophila ananassae samples

Dear all,

I am looking to collect population samples of Drosophila ananassae- ideally 100+ isofemale lines. I am after either someone able to collect and send me such lines, or any advice on good places to go and collect ananassae to bring back to the UK.

We are interested in looking at the sigma virus in these flies (http://en.wikipedia.org/wiki/Sigma_viruses), so existing lines that have been on CO2 are unfortunately no use as infected lines will be killed.

Many thanks,

Ben Longdon

– Ben Longdon Department of Genetics University of Cambridge CB2 3EH b.longdon@gen.cam.ac.uk +44 (0)1223 333967 / +44 (0)1223 334979 http://benlongdon.wordpress.com http://-www.gen.cam.ac.uk/research/Jiggins/Ben.html bjl48@hermes.cam.ac.uk

EOWilson award nominations

Call for Nominations for 2013 Edward O. Wilson Naturalist Award

The Edward O. Wilson Naturalist Award is given to an active investigator in midcareer who has made significant contributions to the knowledge of a particular ecosystem or group of organisms. Individuals whose research and writing illuminate principles of evolutionary biology and an enhanced aesthetic appreciation of natural history will merit special consideration. The recipient need not be a member of the Society. The award will consist of an especially appropriate work of art and a prize of $2,000, presented at the annual meeting of the American Society of Naturalists. For the 2013 Edward O. Wilson Naturalist Award, a nomination packet that includes a letter of nomination, a curriculum vitae including a publication list, and three key publications should be sent by January 1, 2011, to gillespie@berkeley.edu Please indicate "E. O. Wilson Award" in the subject line.

Rosemary G. Gillespie, Professor & Director, Essig Museum of Entomology, University of California Berkeley, Office: 221 Wellman Hall Mail: 130 Mulford Hall, Berkeley, CA 94720-3114 Tel 510-642-3445 email: gillespie@berkeley.edu http://nature.berkeley.edu/ ~ gillespie/ http://essig.berkeley.edu/ gillespie@berkeley.edu

EncyclopediaOfLife 2013RubensteinFellows

*2013 EOL Rubenstein Fellows Program *

Over the past four years the Encyclopedia of Life (EOL, http://eol.org) has grown to become one of the world's largest aggregators of biodiversity information. Now featuring information on over one million taxa, EOL brings together trusted content from 219 scholarly content partners, including 57 current and former Rubenstein Fellows.

This year, EOL is inviting proposals supporting the use of EOL in biological research - it is time to see what the wealth of information in EOL can do.

In preparation for this call, EOL solicited research topics with the potential to illuminate large-scale questions in biology and advance biological research. Eleven specific requests were selected by the EOL curator community as the most promising, tractable, and potentially impactful.

We are calling for proposals to extract data from the EOL collection and advance the corresponding inquiry in one or several of these "Wishes for Research". These "Big Data" questions have not previously been tractable because the information needed to address them was simply not accessible.

We believe it is now possible to begin to address these questions with the help of EOL, and we are prepared to fund your efforts to do so.

"How can I extract the data?" Any technique is acceptable.

"Crowdsourcing? Semantic reasoning? Automated image analysis? Brute force?" Yes.

"I've thought of a method you haven't." Even better.

Please visit the 2013 EOL Rubenstein Fellows competition page at http://eol.org/info/-rubenstein_2013_competition to review the Research Wishes and the competition details. The competition deadline is November 15th. Questions can be directed to the Rubenstein Fellows Coordinator at hammockj@si.edu.

Cynthia Sims Parr, parrc@si.edu Director, Species Pages Group Encyclopedia of Life http://www.eol.org Office: 202.633.9513, Fax: 202.633.8742 Room W118

Mailing address: National Museum of Natural History Smithsonian Institution P.O. Box 37012, MRC 106 Washington, DC 20013-7012

csparr@gmail.com

MolecularEcologyOnlineSymposium Oct24

We held a Molecular Ecology Symposium at the Joint Evolution meeting in Ottawa this past July, with the principal goal of identifying future research directions for the field. To build on this discussion and include a broader audience, we will be holding an Online Forum event on October 24th. The Symposium speakers will

be available to answer questions and share their experience, and the log will be preserved for posterity on the molecular ecologist blog (molecularecologist.com).

Videos of the symposium talks from the Ottawa meeting are available at http://ow.ly/enX2u If you're interested in participating, please register at http://ow.ly/-enXkz - an email with all the access details will be sent out next week.

The forum will run for three hours, with start times dependent on your time zone:

New Zealand (UTC+13 = NZST): 3am Oct 25th to 7am Oct 25th Sydney, Australia (UTC+11 = EDT): 1am Oct 25th to 4am Oct 25th China & Western Australia (UTC+8): 11pm Oct 24th to 1am Oct 25th Eastern Europe (UTC+3 = EEST): 5pm to 8pm Western Europe (UTC+2 = CEST): 4pm to 7pm UK, Ireland & Portugal (UTC+1 = BST): 3pm to 6pm Eastern USA & Canada, Brazil (UTC-4 = EDT): 10am to 1pm Western USA & Canada (UTC-7 = PDT): 7am to 10am

Please contact managing.editor@molecol.com if you've any questions.

All the best,

Tim Vines Managing Editor, Molecular Ecology and Molecular Ecology Resources

managing.editor@molecol.com

NESCent CallForProposals

Once again for helping us distribute information about NESCent's call for proposals. Our upcoming deadline is approaching and we would once again appreciate your help in disseminating our CFP through your websites, list servs, and journals.

CALL FOR PROPOSALS - SABBATICAL SCHOLARS, WORKING GROUPS AND CATALYSIS MEETINGS

Proposals for Sabbaticals, Working Groups and Catalysis Meetings are now being accepted at The National Evolutionary Synthesis Center (NESCent). We are looking to support innovative approaches to outstanding problems in evolutionary science. In particular, proposals that have a clear interdisciplinary focus, or involve evolutionary concepts in non-traditional disciplines, are strongly encouraged, as are proposals that demonstrate international participation and a mix of senior and emerging researchers, including graduate students. Proposals are accepted twice a year, with deadlines on July 10 and December 1. Proposals for Sabbaticals may be for up to a full year. We also accept proposals for short-term visits (2 weeks to 3 months; deadlines on January 1, April 1, July 1 and September 1). For more information, please see our website at https://www.nescent.org/science/proposals.php . GRADUATE FELLOWSHIPS IN EVOLUTIONARY SCIENCE AND RELATED FIELDS

NESCent is now including graduate training in its portfolio, by offering one-semester fellowships for graduate students to pursue research with a NESCent sabbatical scholar, a NESCent postdoctoral scholar, or a NESCent Working Group. Deadlines are January 1 (for a fall semester fellowship) and July 1 (for a spring semester fellowship). For more information, please see our website at https://www.nescent.org/science/proposals.php . Cheers Craig

Craig R. McClain, Ph.D. Assistant Director of Science National Evolutionary Synthesis Center 2024 W. Main St. Suite A200 Box 104403 Durham, NC 27705 919-668-4590

cmcclain@nescent.org

Associate Editor for Proceedings of the Royal Society, Biological Sciences http://-rspb.royalsocietypublishing.org/ Deep-Sea News: http://deepseanews.com/ National Evolutionary Synthesis Center: http://www.nescent.org/ Research Homepage: http://craigmcclain.com/ McClain Craig <cmcclain@nescent.org>

Neotropical army ants samples

Request for Neotropical army ant samples (genus: Eciton) for molecular and morphological work.

As a graduate student in Dr. Corrie Moreaus lab at the Field Museum of Natural History in Chicago, IL, USA, I plan to infer the Eciton phylogeny using RAD sequencing to address questions of Amazonian speciation for my dissertation. Sample contributions from collaborator Dr. Daniel Kronauer at Rockefeller University have provided us with most of the species and a large portion of the Eciton subspecies, but we are still looking for additional samples to broaden our geographic coverage. Any Eciton samples you are able to share would be helpful for our analysis, but there are

two species that have remained elusive. In particular:

(1) Eciton setigaster (2) Eciton uncinatum

We will accept as many Eciton samples as you can spare, but would prefer recent collections in 95-100% EtOH. As many Eciton species have several recognized subspecies that are often geographically distinct, full collection information would be most appreciated. [we would appreciate the additional data.] Additional intact specimens would be helpful for the morphological component of the study.

Please feel free to contact me if you have any questions and please forward this request to anyone you know that may be able to provide samples of army ants.

Please send all samples to:

Max E. Winston Division of Insects Zoology Department Field Museum of Natural History 1400 South Lake Shore Drive Chicago, IL 60605, USA

Thank you, Max Winston mwinston@fieldmuseum.org

–

Corrie Saux Moreau, Ph.D. Assistant Curator, Division of Insects Department of Zoology Field Museum of Natural History 1400 South Lake Shore Drive Chicago, IL 60605 USA Office: (312) 665-7743 Fax: (312) 665-7754 Email: cmoreau@fieldmuseum.org http://fieldmuseum.org/users/corrie-moreau *** Visit our LAB WEBSITE: www.moreaulab.org ***

Corrie Moreau <cmoreau@fieldmuseum.org>

Origin FixationDynamicsTheory

Dear evoldir–

About a year ago, we posted a query asking for help in tracking down the source of models that characterize evolutionary change as the product of a rate of mutational origin and a probability of fixation (e.g., k = 4Nus). We call them "origin-fixation" models, but they have no standard name that one can look up in an index, or search in a databaseX- thus the difficulty of tracking their history. Today, origin-fixation models represent an important branch of evolutionary genetics, being widely used in hypothesis-testing in molecular evolution, in phylogenetics, and in models of adaptation.

We asked the evoldir community to share knowledge of any sources prior to the 1969 work of King & Jukes [1], or Kimura & Maruyama [2]. We received a few responses, but nothing helpful. One person cited a source that attributes k = 4Nus to Wright, 1949 [3], but this turns out to be a red herring.

Subsequently, in preparing a literature review, we discovered a 1938 paper by Wright [4] in which an incidental result, noted by Wright, clearly reduces to k = 4Nus. By virtue of its other innovations, this paper has been cited > 100 times by theoreticians, but neither Wright nor others cite it as a source of origin-fixation dynamics (determined by reading each of the 61 pre-1985 publications that, to our knowledge, cite Wright's 1938 paper).

Thus, Wright (1938) seems to be the proverbial "exception that proves the rule" that origin-fixation models are an invention of the molecular era, and played no meaningful role in the Modern Synthesis. We remain interested in any evidence bearing on this point.

Arlin Stoltzfus (arlin@umd.edu) Dave McCandlish (davidmc@sas.upenn.edu)

[1] King JL, Jukes TH: Non-Darwinian Evolution. Science 1969, 164:788-797. [2] Kimura M, Maruyama T: The substitutional load in a finite population. Heredity (Edinb) 1969, 24(1):101-114. [3] Wright S: Adaptation and selection. In: Genetics, Paleontology and Evolution. Edited by Jepsen GL, Mayr E, Simpson GG. Princeton, NJ: Princeton University Press; 1949: 365V389 [4] Wright S: The Distribution of Gene Frequencies Under Irreversible Mutation. Proceedings of the National Academy of Sciences of the United States of America 1938, 24(7):253-259.

Arlin Stoltzfus (arlin@umd.edu) Fellow, IBBR; Adj. Assoc. Prof., UMCP; Research Biologist, NIST IBBR, 9600 Gudelsky Drive, Rockville, MD, 20850 tel: 240 314 6208; web: www.molevol.org Arlin Stoltzfus <arlin@umd.edu>

Phylogenies AmbiguousData

Dear Evoldir members,

I am seeking help or advice from anyone who has experience in constructing phylogenetic trees with nuclear data that contains ambiguous positions (as consequence of double peaks in the chromatogram). This has been my procedure so far: First I have taken the nuclear sequences as if these were haplotypes, but because of the ambiguous positions, many nodes remain poorly re-

solved. Second, I reconstructed the possible alleles of each nuclear sequence with PHASE and constructed the phylogenetic trees with all these alleles. Third, I have concatenated the two reconstructed alleles coming from each sequence, and treated it as a single "haplotypic" sequence; from here I constructed the pylogenetic trees.

I was wondering if anyone knows/thinks whether my third approach is correct. On the contrary, if you think there is a better way to address this issue I would really appreciate some hints.

Thanks in advance,

Victoria

Victoria Fernandez < mail: mariavictoria.fernandez@udg.edu > PhD student Laboratori d'Ictiologia Genètica, Universitat de Girona (Spain)

mariavictoria.fernandez@udg.edu

ProjectEvoMap

Hi,

I have decided this week to try to create a resource where evolutionary biologists can find info on labs and groups from all around the world. I have created a collaborative Google map online which evolutionary biology research groups can pin their labs to with a brief description of their interests. Others can then browse the map to look for labs in specific areas - for example, if someone wants to find suitable labs in their current country for work they can see all the labs in that area, likewise anyone looking for work in a specific region or who needs access to labs while on fieldwork can look for nearby groups which may be able to help.

Yesterday ProjectEvoMap was born, spread using twitter, already has labs from all over the world, and has received plenty of positive feedback. Hopefully this project will make networking easier, raise awareness of smaller groups, and promote collaboration. So could I ask you to take a moment to add your groups to it as well because the more that add to it, the better it becomes. Ideally I'd like to get pins on the map for each group, not just each department.

To add a lab follow this link (https://maps.google.com/maps/ms?msid=211137438455901265530.0004cbb2cd7859b1b6c75&msa=0&ll=37.857507,41.835938&spn=127.785219,307.96875) and follow the instructions on the left or in the instruction video on youtube.

Follow @GriffinEvo or search for #ProjectEvoMap on Twitter for updates. Thanks for taking part and please spread the idea!

Rob

Robert M. Griffin PhD Candidate Uppsala University

EBC, Department of Evolutionary Biology 18d Norbyvägen Uppsala 752 36 Sweden

http://www.ebc.uu.se/Research/IEG/evbiol/people/pages/Griffin_Rob/ Robert Griffin <robert.griffin@ebc.uu.se>

ProjectEvoMap NewSite

Hi all,

I know you all emailed information to your mailing lists about ProjectEvoMap last week, but there have been changes to the set up so I would really appreciate it if you could read and circulate this email.

Unfortunately some people were struggling with the Google maps interface and this lead to pins being moved or deleted accidentally. I have now changed editing options so only I can add pins & edit the map.

ProjectEvoMap is now viewable by visiting http://projectevomap.yolasite.com/ Or Google-ing ProjectEvoMap Or on my twitter account @GriffinEvo (which you should also follow for updates)

To add a lab to the map you should email projectevomap@live.co.uk with the following 1. University/ Institute name 2. Group leaders name 3. Brief research description 4. Address

Sorry for sending another email about this, but it is now easier for you to add a map & is completely safe from tampering V the changes only make more work for me!

I hope you find the time to join this exciting new project which now has >130 labs covering every inhabited continent, and nearly 10,000 views in its first 5 days! I am delighted it has been such an active project and really appreciate all the great feedback you have been giving!

Yours, Robert Griffin

PhD Candidate Uppsala University

Robert Griffin <robert.griffin@ebc.uu.se>

Software ExaML LargePhylogeneticAnalyses

Dear Community,

A new parallel version of RAxML-Light, called ExaML (Exascale ML) was released today.

It uses a new parallelization approach which dramatically increases parallel efficiency (up to a factor of 4 compared to RAxML-Light) on large partitioned phylogenomic datasets.

This is a dedicated program for distributed memory clusters and supercomputers.

It only works with MPI!

The code and some initial documentation are available here:

https://github.com/stamatak/ExaML User support will be provided via the RAxML google group.

Cheers,

Alexis

– Dr. Alexandros Stamatakis Research Group Leader HITS, Heidelberg Adjunct Professor, Dept. of Ecology and Evolutionary Biology, University of Arizona at Tucson www.exelixis-lab.org alexandros.stamatakis@gmail.com

Software NewMorphometricSoftware in R

Hello all,

We are happy to announce the release of GeoMorph: a morphometrics package in R for the collection and analysis of landmark-based geometric morphometric data. It is available on the CRAN package website.

Geomorph provides routines for all stages of a geometric morphometric analysis. It allows one to read, manipulate, and digitize 2D and 3D landmark data, generate shape variables via Procrustes analysis for points, curves and surfaces, perform statistical analyses of shape variation and covariation, and provide graphical depictions of shapes and patterns of shape variation.

Most of geomorph's functions are designed for researchers interested in testing ecological and evolutionary hypotheses of shape variation and covariation. Methods are available to:

Data -read existing landmark data files into R (nts, tps, Morphologika format) -digitize 3D landmarks from surface images within R -estimate missing landmarks on specimens

Shape -Superimpose specimens using GPA (for both landmarks and semilandmarks)

Analyses -Anova/regression designs -integration/modularity analyses -analysis of phenotypic trajectories -assessment of phylogenetic signal for shape data

Visualization -scatterplots of shapes -shape deformation plots -plots of allometric trajectories -plotting phylogenies in shape space

In the coming months we will add additional functions of interest to evolutionary biologists.

Dean

Dr. Dean C. Adams Professor Department of Ecology, Evolution, and Organismal Biology Department of Statistics Iowa State University Ames, Iowa 50011 www.public.iastate.edu/ ˜ dcadams/ phone: 515-294-3834

dcadams@iastate.edu

Tucson Hackathon Jan28-Feb1

Phylogenies! Hacking! Tucson in January!

An implicit promise of the Tree of Life project is that, ultimately, expert knowledge of species phylogeny will be accessible and usable by everybody. In other words, we will all be able to get the species trees we need, in a useable form, when we need them. The Phylotastic project aims to make that vision a reality, by developing a loosely coupled system of components that, in response to a user's query (a list of taxa plus conditions), will rectify names, find suitable source trees, prune and graft to get the right species, estimate branch lengths, and return the results with metadata on sources and methods.

In June 2012, the HIP (Hackathons, Interoperabil-

ity, Phylogenies) working group of NESCent staged a hackathon (http://en.wikipedia.org/wiki/Hackathon) to prototype components of a Phylotastic system, and implement demos to show their potential. Thanks to 25 participants who responded to an open call (just like this one), that hackathon was an extraordinary success (see http://phylotastic.org/).

Now we are gearing up for a second hackathon, to take another step toward providing computable, convenient, credible access to the Tree of Life. We aim to recruit a diverse group of participants, including students, faculty, postdocs, and staff of both genders and from different backgrounds. Only some of the seats at the hackathon will be filled by expert hackers who spend their time coding. We also need folks who can:

* Provide knowledge of workflows and downstream uses of trees * Design user interfaces * Test software * Make screencasts, develop tutorials, and document user experiences

Applications are now being accepted to Phylotastic 2, which will take place January 28th, 2013 to February 1st, 2013 at the BIO5 facility in warm and sunny Tucson, AZ (http://bio5.arizona.edu/about-bio5). Information on how to apply is provided below. Partial support (and, if funds allow, full support) for travel, food and lodging will be available to each successful applicant who indicates need. We particularly welcome applications from women and members of underrepresented groups.

To understand how you might be able to contribute, review the slideshow (ppt format, http://bit.ly/RWRgIc, or PDF format, http://bit.ly/POaoci), consult the web site (phylotastic.org) or contact a member of the HIP leadership team (listed below).

Sincerely,

Arlin Stoltzfus (arlin@umd.edu), on behalf of the HIP (Hackathons, Interoperability and Phylogenies) Leadership Team

HOW TO APPLY Before 16 November, 2012 at midnight, EST, fill out the online form here http://-tinyurl.com/PhyloTastic2. Note that:

* The application form asks you to describe how you can contribute to Phylotastic. Remember that we are not just looking for expert coders. There are many other ways to contribute. * Support for travel, housing and meals will be available to each successful applicant who indicates need. * Please understand that your application is not a guarantee of participation in the event. Funds and space are limited: we may not be able to sponsor every individual who is qualified to participate.

LEADERSHIP TEAM Karen Cranston, karen.cranston@nescent.org Brian Sidlauskas, brian.sidlauskas@oregonstate.edu Arlin Stoltzfus, arlin@umd.edu Mike Rosenberg mrosenb@asu.edu Brian O'Meara, bomeara@utk.edu Mark Westneat mwestneat@fieldmuseum.org Enrico Pontelli epontell@cs.nmsu.edu Rutger Vos rutgeraldo@gmail.com Naim Matasci nmatasci@iplantcollaborative.org

Arlin Stoltzfus (arlin@umd.edu) Fellow, IBBR; Adj. Assoc. Prof., UMCP; Research Biologist, NIST IBBR, 9600 Gudelsky Drive, Rockville, MD, 20850 tel: 240 314 6208; web: www.molevol.org arlin@umd.edu

UWyoming SummerResearchOpportunities

For more information, see http://-www.wyomingbioinformatics.org/SummerSchool/ Bioinformatics and Computational Molecular Biology Undergraduate Summer Research Program

University of Wyoming

The University of Wyoming is proud to offer summer research opportunities to external undergraduate students to engage in research in bioinformatics and computational molecular biology in Laramie. The summer research program will return in 2013 and last from May 27, 2013 to August 2, 2013 and will include a stipend of $3500 for the period. Confirmed external speakers in the summer program include Claus Wilke (University of Texas) and Michael Lynch (Indiana University).

The program includes both lectures and educational opportunities as well as a focus on a research experience. Lectures will be given by both University of Wyoming faculty and external speakers.

Several labs that will host bioinformatics/computational molecular biology students include:

Alex Buerkle: Statistical genetics and models of adaptation and speciation Jay Gatlin: Models of mitotic spindle movement Mark Gomelsky: Microbiology; protein engineering Jan Kubelka: Protein folding David Liberles: Comparative genomics and molecular evolution Rongsong Liu: Epidemiological modeling Jessica Siltberg-Liberles: Protein structural bioinformatics Anne Sylvester: Comparative genomics of maize Dan Wall: Genetics of bacterial motility Naomi

Ward: Metagenomics and Microbial Genomics Cynthia Weinig: Environmental Genetics and Adaptation in Plants

To apply, send a resume, cover letter, and statement of research interests to liberles@uwyo.edu, arrange to have 2 letters of recommendation sent directly by the letter writer to liberles@uwyo.edu, and arrange to have an official transcript sent to:

David Liberles Department of Molecular Biology Dept. 3944 University of Wyoming Laramie, WY 82071

Your cover letter should indicate: 1). Any prior experience in computer programming and if none, any interest in a mini-tutorial on programming; 2). Your plans (if known) immediately after graduation and if they include immediately attending graduate or professional school; 3). If your ultimate career plans involve a Ph.D., an M.D., or an M.D./Ph.D., and 4). Your top two choices of research group to work in over the summer.

Review of applications for the 2013 Program will begin on February 4, 2013 and continue until the class has been filled.

David Liberles <liberles@uwyo.edu>

Volunteers SouthAfrica SmallMammals

2 volunteers needed from November and 1 from December 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. One focus is on the adaptation to droughts, combining physiological, behavioral, ecological and evolutionary research. 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 radiotracking of striped mice; direct behavioral observations in the field. Volunteers will also see how blood samples are collected for physiological measurements. 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$, 120 Euro) must be paid for accommodation at the research station. Students must buy their own food etc in Springbok (costs of about R 2500, approx. 360 US$ 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 volunteers starting in November and 1 in December 2012. Volunteers are expected to stay at least three months, but longer periods of up to 6months are preferred.

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@iphc.cnrs.fr.

More information under

http://stripedmouse.com/site1_3_5.htm

Contact via e-mail: carsten.schradin@iphc.cnrs.fr

Dr. Carsten Schradin Head Succulent Karoo Research Station

South Africa

The research station functions as a South African non-profit organization

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

Dr. Carsten Schradin

Institut Pluridisciplinaire Hubert Curien

Département d'Ecologie Physiologie et Ethologie

23, rue Becquerel

UMR 7178 CNRS UdS

67087 Strasbourg cedex 2, France

Tel: +33 (0)3 88 10 69 19

PD at the University of Zurich, Switzerland

Honorary Associate Professor at the School of Animal, Plant and Environmental Sciences, University of the Witwatersrand, Johannesburg, South Africa

Head of the Succulent Karoo Research Station, Goegap Nature Reserve, PO Box 1010, 8240 Springbok, South Africa

< http://www.stripedmouse.com/ >

Carsten Schradin <carsten.schradin@iphc.cnrs.fr>

PostDocs

CSIRO Canberra MicrobialEvolution

Postdoctoral Scientist - Microbial Community Ecology & Soil Carbon Dynamics CSIRO Plant Industry, Canberra, Australia

We seek a postdoctoral fellow to investigate succession change and evolutionary adaption of microbial communities in relation to carbon utilization in soil. A functional genomics approach will be used to analyse microbial communities in relation to the decomposition of plant residues and to develop a mechanistic understanding of microbial contribution to C stabilization in soil and the role of inorganic nutrients in C sequestration.

Location: CSIRO Plant Industry, Black Mountain, Canberra, Australia Salary: AU$75K - $85K per annum plus up to 15.4% superannuation Tenure: 3 year term Applications: Close October 31 - for details see below For information: Contact Dr Alan Richardson: alan.richardson@csiro.au To apply: Visit CSIRO Careers at http://csiro.nga.net.au/cp/index.cfm Ref no: ACT12/03347

Luke.Barrett@csiro.au

CaliforniaAcademySciences PlantEvolution

Title: Postdoc Fellowship in Botany_California Academy of Sciences_San Francisco

POSITION SUMMARY The California Academy of Sciences invites applications for the John J. Rose Postdoctoral Fellowship in Botany, a full-time position for research on the systematics and evolution of vascular plants. This is a one-year position with a possible one-year extension based on performance. Candidates must have their Ph.D. prior to beginning the position. Individuals with interest and expertise in international field research, museum collections development, and molecular systematics of vascular plants are particularly encouraged to apply. In addition to the primary focus on research, the candidate will be expected to contribute to various activities that take place in a large public museum, such as public education and exhibit content development.

The herbarium at the Academy's Department of Botany includes about 2 million specimens of vascular plants, bryophytes, and lichens, with strengths in western North America, Latin America, Mediterranean Europe, eastern Asia, and Madagascar. Other institutional facilities and resources include the Center for Comparative Genomics, Howell Botanical Laboratory, a comprehensive library of systematic and evolutionary biology, an SEM unit, and a 280-core computing cluster. For additional information about the Academy and the department, please visit http://-research.calacademy.org/ . To apply, send a cover letter of interest, a curriculum vitae, a two-page description of general research accomplishments and goals, a three- to four-page project proposal for the fellowship, and the names, addresses, e-mails, and telephone numbers of three references by January 15, 2013.

ESSENTIAL DUTIES AND RESPONSIBILITIES:

* Conduct original research on plant systematics and evolution

* Conduct various laboratory activities relevant to the project

* May prepare species descriptions and taxonomic keys using museum collections at CAS and other relevant herbaria

* Oversee and perform identification of collections pertinent to the project

* Plan and participate in field work to generate collections relevant to the project

* May work closely with a research assistant or volunteers

* Publish results pertinent to the project

* Follow all Academy safety regulations

* Other duties as assigned

QUALIFICATIONS: To perform this job successfully, an individual must be able to perform each essential duty satisfactorily. The requirements listed below are representative of the knowledge, skill, and/or ability required. Reasonable accommodations may be made to enable individuals with disabilities to perform the essential functions.

EDUCATION and/or EXPERIENCE: The ideal candidate will possess the following education and/or equivalent experience:

* Ph.D. with specialty in plant systematics and evolution, and experience in conducting herbarium, laboratory, and/or field work.

KNOWLEDGE, SKILLS AND ABILITIES:

* Proficiency with literature and terminology of systematic and evolutionary botany

* Computer skills including experience with phylogenetic software packages and herbarium database use

* Strong communication skills

* Strong organizational skills

* Familiarity with or willingness to learn laboratory techniques

LANGUAGE SKILLS: Ability to read and interpret documents such as safety rules, operating and maintenance instructions, and procedure manuals. Ability to write routine reports and correspondence. Ability to speak effectively before groups or individuals. Foreign language speaking skills desirable.

PHYSICAL DEMANDS & WORK ENVIRONMENT: The physical demands and work environment described here are representative of those that must be met by an employee to successfully perform the essential functions of this job. Reasonable accommodations may be made to enable individuals with disabilities to perform the essential functions. While performing the duties of this job, the employee is frequently required to stand, sit, walk, and reach with hands and arms, and talk or hear. Must be able to perform motions 50% of the time. Must be able to lift 30 lbs. Must be able to climb ladders 10% of the day. Must be able to reach above shoulder level for 20% of the day. Must be able to perform computer data entry up to 30% of the day.

The employee may be working with biological collections treated with chemicals to preserve them. Although safety measures are in place to minimize the risk of exposure of these chemicals to employees, the applicant should be aware of this potential hazard. Chemicals and chemical residues which employees may be exposed to include naphthalene, mercuric chloride, ethanol, methyl bromide, strychnine, DDT and Vapona.

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ChicagoFieldMuseum PhylogeneticSynthesis

A postdoctoral research position is available in the lab of Richard Ree (www.reelab.net) at the Field Museum of Natural History in Chicago, IL, USA, for a period of up to 2.5 years starting on or after January 2, 2013.

This position is part of the Open Tree of Life project (www.opentreeoflife.org), an NSF-funded collaborative initiative to assemble a "first-draft" phylogeny of all known species and catalyze ongoing synthesis of phylogenetic knowledge. The researcher's primary responsibility will be to contribute original research toward answering the question, "how can we build maximally comprehensive and accurate phylogenies from published results of systematic studies?"

The researcher will also be expected to participate in collaborative software development with the aim of producing free and open source bioinformatic tools and infrastructure to enable synthesis: see http://github.com/opentreeoflife . The ideal candidate will be experienced in phylogenetic methods and proficient in Python, Javascript/HTML5, Java, and/or C/C++ (in that order of preference). She or he will also be energetic, enthusiastic, able to think creatively, and able to work collaboratively. Experience in empirical systematics, graph databases (Neo4j), and relational databases (MySQL) is desirable.

For further information or to apply, send an e-mail cover letter with the names and e-mail addresses of two references, and a current CV, to Richard Ree (rree at fieldmuseum dot org). Application review will commence December 15 and continue until the position is filled.

rree@fieldmuseum.org

Cornell ComparativeLandscapeGenomics

Postdoctoral Research Position in Comparative Landscape Population Genomics.

A postdoctoral position is available to work in the Zamudio (Cornell University) and Funk (Colorado State University) laboratories on the NSF-funded Dimension of Biodiversity Project EVOTRAC (Evolutionary and Ecological Variability in Organismal Trait Response with Altitude and Climate). EVOTRAC is a trait-based and integrative project studying species vulnerability to climate change in temperate and tropical stream ecosystems, using physiological, population ge-

netic, ecological, and biogeochemical approaches. The postdoc will reside primarily in the Zamudio laboratory, Department of Ecology and Evolutionary Biology, Cornell University, but will be active across laboratories to integrate the comparative population genomic data for the project. More information on EVOTRAC can be found at www.eeb.cornell.edu/evotrac/-welcome.html ** Description ** We are seeking an enthusiastic and independent post-doc to be the lead researcher in analysis of dispersal of aquatic insects and frogs within and among streams using genomic markers (genome-wide SNPs). Primary responsibilities of this position include: - plan and oversee sample collections in Colorado and Ecuador in collaboration with other EVOTRAC labs - characterize markers for 20 target species, including SNP assays through restriction-site associated DNA (RAD) tag approaches - conduct lab research to genotype and quantify dispersal in focal taxa - lead data analyses and manuscript preparation - coordinate undergraduate projects on related research.

Preference will be given to applicants who have experience in molecular biology, and specifically in the complexities of laboratory and computational techniques in landscape genetics/genomics and molecular estimates of dispersal.

Qualifications Applicants must have a PhD in biology, molecular biology, genetics, or related field. Applicants should have demonstrated experience in collection of comparative population genetic data, strong field and laboratory skills, a consistent record of high-quality publications, and the ability to work independently, but also participate in collaborative team-based projects. EVOTRAC will require periods of fieldwork and the ability to work in remote and sometimes challenging field conditions. Working knowledge of Spanish is highly desirable.

Terms of Appointment Starting salary is $39,500-44,000, depending on experience. Funds are available for one year, and renewable for a second pending satisfactory progress. The position is available starting May 2013; starting date is negotiable.

Application

Review of applications will begin January 15, 2013, and continue until a suitable candidate is found.

To apply, please send cover letter, CV, a statement of research interests/experiences, representative publications, and names and contact information for three references that are familiar with your work. Applications (PDF format) should be e-mailed to Kelly Zamudio (kelly.zamudio@cornell.edu), Department of Ecology and Evolutionary Biology, Cornell University, Ithaca, NY 14853-2701.

Cornell University is an equal opportunity, affirmative action educator and employer. Applications from women and minorities are encouraged.

kelly.zamudio@cornell.edu

EAWAG Switzerland EvolutionaryEcol

Although this project is on pollutant impacts, evolutionary ecological and ecosystem ecology concepts are used to understand the responses from individuals to population to ecosystems.

Eawag, the Swiss Federal Institute of Aquatic Science and Technology, is a Swiss-based and internationally networked aquatic research institute within the ETH domain (Swiss Federal Institute of Science and Technology). It is committed to the ecologically, economically and socially responsible management of water resources and aquatic ecosystems.

The Department of Aquatic Ecology has a vacancy for a three year position as

Postdoctoral Researcher on Impacts of pollutants on aquatic ecosystems The contamination of freshwater systems with micropollutants (MPs) is a key environmental problem, but the basic principles of how MPs impact aquatic ecosystems are poorly understood. The specific goals of this project are therefore to test i) whether MPs have ecosystem level consequences and ii) how these effects are mediated across different hierarchical levels in ecosystems (from individuals and populations to communities and ecosystem function). The postdoctoral project is embedded in a large collaborative and interdisciplinary effort that encompasses research from environmental chemistry and ecotoxicology to evolutionary ecology and ecosystem ecology. The project is theory driven and involves innovative experimental approaches combined with large scale field surveys and the use of up-to-date methodology in measurements of ecosystem function and ecotoxicology/chemistry.

A Ph.D. degree in biology or related area is mandatory. The main selection criterion for this position is scientific excellence. The ideal candidate has a strong conceptual basis in evolutionary ecology/ecosystem ecology

and their applications (especially environmental stress research and/or environmental toxicology). Previous experience in designing and conducting field and laboratory experiments is necessary. The position is funded for three years and will be filled as soon as a suitable candidate is found (target date January-February 2013). The candidate will be based at Department of Aquatic Ecology, Eawag Dübendorf, Switzerland.

The application should include an application letter (with a max. 1 page statement of research interests and relevant experience), a CV and a list of publications, copies of academic qualifications and the names, affiliations, and e-mail addresses of three referees. The deadline for applications is November 25, 2012.

The Department of Aquatic Ecology is situated in Dübendorf (near Zürich). The department has broad expertise in ecology and evolution, and offers a dynamic, international and socially active working environment. It is well connected internationally and with other departments at Eawag. The working language is English. The project is conducted in the team of

Dr. Katja Räsänen in close collaboration with Dr. Christian Stamm (Env. Chemistry, Eawag), Prof. Rik Eggen, (Env.Toxicology/directorate, Eawag), Prof. Martin Ackermann (Env. Microbiology, Eawag/ETH-Zurich), Dr. Florian Altermatt (Aquatic Ecology, Eawag) and Prof. Jukka Jokela (Aquatic Ecology/ETH-Zurich).

For further information consult www.eawag.ch or contact Dr. Katja Räsänen, (katja.rasanen@eawag.ch)

Web page: http://www.eawag.ch/about/personen/-homepages/rasaka/ We look forward to receiving your application. The quickest way is to apply online. Please click on the Link below. This will take you directly to the application form. http://internet1.refline.ch/-673277/0161/++publications++/1/index.html —

"Rasanen, Katja" <Katja.Rasanen@eawag.ch>

Hawaii PopGenetics

Postdoc/Technician position: Population genetics/phylogenomics, Hawaii Aloha! The University of Hawaii Manoa and USDA-ARS Pacific Basin Agricultural Research Center have funding for a post-doc or highly experienced technician in the area of population genetics/phylogenomics/bioinformatics. This research project is focused on analyzing populations of Tephritid fruit fly species using genome-wide analysis techniques towards marker discovery and developing assays for determination of source populations. The duties include analysis of NGS data, focusing on QTL analysis, generation of linkage maps, and SNP genotyping. Strong background in population genomics and phylogenetics is required. Knowledge of linux/unix, scripting, and light programming is required. Our approaches include RAD-Seq, GBS (genotyping by sequencing), RNA-seq, and multi-gene sequencing. We have advanced computing resources and a very active research program. Salary is ~$45,000, hired through University of Hawaii Manoa, and the job will be stationed at the USDA-ARS Pacific Basin Agricultural Research Center in Hilo, Hawaii. Funding is guaranteed for 1 year, with possibility of extension based on future funding. PhD or Masters with extensive experience is required. If interested, please contact Dr. Scott Geib at scott.geib@ars.usda.gov and submit CV, Research Narrative, and contact for at least 3 references.

Scott Geib, PhD Research Entomologist Insect Genomics USDA Pacific Basin Agricultural Research Center Tropical Crop and Commodity Protection Research Unit 64 Nowelo Street Hilo HI, 96720

808-959-4335 (office) 808-959-5470 (fax)

Scott.Geib@ARS.USDA.GOV

IIMCB Warsaw RNA EvolutionaryBioinformatics

The Bujnicki laboratory in IIMCB Warsaw has an opening for a postdoc in evolutionary bioinformatics of RNAs

The Bujnicki laboratory (http://iimcb.genesilico.pl) studies sequence-structure-function relationships in proteins and nucleic acids. Our multidisciplinary team comprises experimentalists and theoreticians with a very wide area of joint expertise. We study the naturally occurring systems and infer general rules to develop predictive models and to engineer macromolecules with new functions. We develop computer software, use bioinformatics to make structural and functional predictions, and we test hypotheses in the wet lab. Examples of our successes include the development of programs for modeling of protein and RNA structures (e.g. GeneSilico metaserver, ModeRNA), identification and characterization of new enzymes responsible for RNA

maturation, and engineering of nucleases with new substrate specificities.

We have openings for postdocs in projects funded by the 7th Framework Programme of the EU (FISHMED) and the Polish agency NCN (MAESTRO). We are looking for talented candidates with expertise such as programming in C/C++ and Python and development of methods for macromolecular modeling (FISHMED), or the use of bioinformatics methods for comparative analyses/molecular evolution/structural modeling of RNAs and protein-RNA complexes (MAESTRO).

The application should contain a CV, a motivation letter, contact to at least two potential referees and if possible samples of software code developed by the Candidate. Applications will be accepted by email only: employment@genesilico.pl

Applications will be collected until October 31st 2012

Interviews with selected candidates will be held on November 12th

MORE DETAILS ON POSITIONS AND HOW TO APPLY: http://www.genesilico.pl/index.php/-employment.html Please include in your application: "In accordance with the personal data protection act from 29th August 1997, I hereby agree to process and to store my personal data by the Institution for recruitment purposes$B!I(B.

Janusz M. Bujnicki, PhD, Professor Email: iamb@genesilico.pl

Head, Laboratory of Bioinformatics and Protein Engineering International Institute of Molecular and Cell Biology Trojdena 4, 02-109 Warsaw, POLAND tel: +48-22 597 0750 fax: +48 22 597 0715 http://iimcb.genesilico.pl Janusz Bujnicki <iamb@genesilico.pl>

INIA Madrid PopulationGenetics

The Population Genetics and Evolution (PGE) Group at the INIA Forest Research Centre in Madrid, Spain, would like to advertise a recent call for human resources published by the Spanish Secretary of State for Research, Development and Innovation. The call includes, across science disciplines,

225 three-year contracts for postdocs with up to four years post-doctoral experience in the "Juan de la Cierva" subprogramme (PhD degree obtained not earlier than September 1st, 2008; application deadline Nov 27), and

175 five-year contracts for researchers with up to ten years postdoctoral experience in the "Ramón y Cajal" subprogramme (PhD degree obtained not earlier than January 1st, 2002; application deadline Nov 29).

We call for excellent and motivated young researchers to apply for these contracts with our group. Applicants with expertise in evolutionary ecology, bioinformatics, next-generation sequencing, and/or statistical genetics are especially encouraged. Juan de la Cierva candidates should present a project in conjunction with a host researcher. Candidates for the highly competitive Ramón y Cajal subprogramme should develop their own project/research line, which should extend the research currently developed by the group. Successful Ramón y Cajal candidates will receive 40,000 EUR in research funds and are expected to apply for additional funding in R+D+I calls.

The PGE group at INIA-CIFOR is composed of four researchers (Santiago C. González-Martínez, Juan José Robledo Arnuncio, Ricardo Alía and José Climent), two "Ramón y Cajal" fellows (Delphine Grivet and Myriam Heuertz), two postdocs, five PhD students and two technicians. Our expertise is in population and quantitative genetics, evolutionary ecology and population dynamics of plants, mostly forest trees. Our main study organisms are Mediterranean conifers and some tropical trees. We examine the demographic, reproductive and genetic processes that influence adaptation to changing environments of forest species, including biogeographic approaches and applications for management and conservation of forest genetic resources. We develop studies on gene flow, local adaptation, plasticity and phenotypic integration and on the molecular basis of adaptation, as well as new statistical methods.

Ongoing research projects of the group include: CGL2011-30182-C02-01/ ADAPCON: Adaptive variation, environmental gradients and demography in Mediterranean conifers: from genes to phenotypes and niches (2012-2014). CGL2012-40129-C02-02/ AFFLORA: Demographic history and adaptation in tropical trees (2013-2015). EUI2008-03713/ LinkTree: Linking genetic variability with ecological responses to environmental changes: forest trees as model systems. FP7 BiodivERsA (2009-2013). TipTree: Scenarios for forest biodiversity dynamics under global change in Europe: identifying micro-evolutionary scale tipping points. FP7 BiodivERsA (2012-2015). CGL2009-09428/ FLUGAL: Interaction between gene flow and local adaptation in forest species: new analytical and experimental approaches (2010-2012). FP7-284181/

TREES4FUTURE: Designing trees for the future (2011-2015). AGL 2012-40151-C03-02/ FENOPIN: Reproductive strategies: adaptive relevance against other life history traits in Iberian pines (2013-2015). Some recent publications of the group: Robledo-Arnuncio JJ (2012) Joint estimation of contemporary seed and pollen dispersal rates among plant populations. Molecular Ecology Resources 12: 299-311. Robledo-Arnuncio JJ, Grivet D, Smouse PE, Sork VL (2012) PSA: software for parental structure analysis of seed or seedling patches. Molecular Ecology Resources 12: 1180-1189. Daïnou K, Bizoux JP, Doucet JL, Mahy G, Hardy OJ, Heuertz M (2010). Forest refugia revisited: SSRs and cpDNA sequences support historial isolation in a wide-spread African tree with high colonization capacity, Milicia excelsa (Moraceae). Molecular Ecology, 19, 4462-4477. Grivet D, Sebastiani F, Alía R, Bataillon T, Torre S, Zabal-Aguirre M, Vendramin GG, González-Martínez SC (2011) Molecular footprints of local adaptation in two Mediterranean conifers. Molecular Biology and Evolution 28: 101-116. Santos-del-Blanco L, Climent J, González-Martínez SC, Pannell JR (2012). Genetic differentiation for size at first reproduction through male versus female functions in the widespread Mediterranean tree Pinus pinaster. Annals of Botany, DOI:10.1093/aob/mcs210. Climent J, San-Martín R, Chambel MR, Mutke S (2011). Ontogenetic differentiation between Mediterranean and Eurasian pines (sect. Pinus) at the seedling stage. Trees-Structure and Function 25: 175-186. Burgarella C, Navascués M, Zabal-Aguirre M, Berganzo E, Riba M, Mayol M, Vendramin GG, González-Martínez SC (2012). Recent population decline and selection shape diversity of taxol-related genes. Molecular Ecology 21: 3006-3021.

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INRA Nancy France FungalPathogenEvolution

A 2-years postdoctoral position is available at INRA (http://www.international.inra.fr/) in Nancy, France, starting from March 2013. The research proposal is focused on the study of the adaptation of the poplar rust fungus (/Melampsora larici-populina/) to the poplar varietal landscape. Our goal is to integrate approaches of population genetics, landscape epidemiology and evolution of life history traits of the poplar rust fungus in order to: (i) identify genetic signatures of adaptation of the pathogen's populations to the poplar varietal landscape; and (ii) assess the ability of the pathogen to adapt to quantitative resistances.

Candidates should have a good background in ecology, evolutionary biology, and population genetics. Knowledge of host – parasite interactions, especially plant pathology, is not mandatory but would be appreciated.

The postdoctoral position will be funded by the INRA Metaprogramme SMaCH (Sustainable Management of Crop Health) and AgreenSkills. The selected candidate(s) and the hosting lab will build a detailed research project, which will subsequently be evaluated by AgreenSkills. The AgreenSkills eligibility requirements and selection procedure are detailed at http://-/www.agreenskills.eu/ Applicants should send a letter of interest and a CV, including the names and contact details of two or three referees, to Pascal Frey (frey@nancy.inra.fr) before November 1ˆst 2012 (deadline for application at AgreenSkills November 15ˆth 2012).

If you know of anyone who might be a good fit for this position please pass on this information to him or her. Thank you. Apologies for cross postings.

Best regards,

Dr Pascal FREY INRA, University of Lorraine Forest Pathology Group UMR1136 "Tree - Microbe Interactions" F-54280 Champenoux FRANCE

Phone: 33 383 394 056 Fax: 33 383 394 069 E-mail: frey@nancy.inra.fr http://-mycor.nancy.inra.fr/EFPFteam/?page_id& Pascal Frey <frey@nancy.inra.fr>

ImperialC London PopGenomicsInfections

IMPERIAL COLLEGE LONDON POPULATION GENOMICS OF EMERGING INFECTIONS DPT. INFECTIOUS DISEASE EPIDEMIOLOGY

Salary Range £28,200 - £40,720 per annum

(Excuse the reposting of this job: original application link expired prematurely)

Three year post

Applications are invited to join the Department of Infectious Disease Epidemiology located at the St Mary's campus, Paddington. The department is based within a five star research institute equipped with the latest technologies and facilities. DIDE is arguably the largest grouping of infectious disease epidemiologists in the world with a very wide range of skills represented, from experimental studies on bacterial/fungal pathogens, through population genetics and infectious disease modelling to field work on emerging infectious disease. As such, the Department offers excellent research facilities and a friendly, intellectually stimulating, working environment.

Emerging fungal infections are attracting increasing scientific and policy interest as their impact on human and ecosystem health becomes more pronounced (see Nature 484 2012). This Research Associate post is funded by a 3-year MRC project grant, entitled 'An evolutionary population genomics approach to determine the genetic basis of virulence in the pathogenic fungus Cryptococcus neoformans', and seeks to understand the evolutionary basis underlying this pathogen's emergence as a leading cause of human disease in Africa and South East Asia.

The post holder will join a multidisciplinary team of researchers that are using statistical genetic and functional genomic approaches to identify the patterns and processes that have led to contemporary distributions of genetic diversity for emerging pathogenic fungi, with a focus on Cryptococcus. The post-holder will have a key role in study design and will develop a state-of-the-art bioinformatics pipeline for assembling next-generation sequence data from a global panel of environmental and clinical Cryptococcus isolates. These data will be used for statistical genetic, phylodynamic and evolutionary analyses with the ultimate goal of defining the subset of genetic diversity that is associated with virulence and spatial-expansion of key lineages of Cryptococcus. Key responsibilities will be to develop cutting-edge approaches to managing large eukaryote population genomics datasets, and to liaise with our international collaborators in order to effectively share and curate genome-data.

The successful candidate will have a strong bioinformatic, evolutionary or statistical genetics background with a PhD degree or equivalent in a relevant quantitative subject.

This post is a full time and fixed term until 31st July 2015.

For informal enquiries please contact Dr. Matthew Fisher (matthew.fisher@imperial.ac.uk).

Our preferred method of application is online via our website. Please complete and upload an application form as directed.

http://www.jobs.ac.uk/job/AFF173/research-associate/ https://www4.ad.ic.ac.uk/-OA_HTML/OA.jsp?akRegionCode=-3DIRC_VIS_VAC_DISPLAY_PAGE&akRegionApplicationId=800&transactionid=647191889&retainAM=-Y&addBreadCrumb=S&p_svid=38450&p_spid=-1598168&oapc=7&oas=7Ry3bRiXBiFG605-VKdwIw. . Reference number: SM151-12

CLOSING DATE: 21 October 2012

matthew.fisher@imperial.ac.uk

InstPasteur MicrobialPhylogenomics

A two-year postdoctoral position in Microbial Phylogenomics is open in the group of Simonetta Gribaldo at the Department of Microbiology, Institut Pasteur, Paris, France. The position is available as part of the 'ANCESTROME' project funded by the Investissement d'Avenir 'Bioinformatics' call (http://ancestrome.univ-lyon1.fr/). This project involves faculty from four partner institutions in Lyon, Montpellier, and Paris, so the successful candidate will be joining a highly collaborative and productive research network.

The post-doctoral fellow will be in charge of large-scale phylogenomic analyses aimed at reconstructing the global evolutionary history of prokaryotes. We are looking for a dynamic and highly motivated scientist with a strong interest in microbial evolution and excellent skills in phylogenomics.

The Department of Microbiology at the Institut Pasteur provides a highly stimulating environment with its research on a large array of subjects, organism models, and approaches (http://www.pasteur.fr/ip/-easysite/pasteur/en/research/scientific-departments/-microbiology).

To apply, please send a curriculum vitae, a statement of research interests, and the names and addresses of references to Dr. Simonetta Gribaldo at simonetta.gribaldo@pasteur.fr

Simonetta Gribaldo Institut Pasteur Department of Microbiology BMGE Unit 28 rue du Dr. Roux Paris 75015 France

simonetta gribaldo <simonetta.gribaldo@pasteur.fr>

JagiellonianU Krakow PopulationGenetics

A postdoctoral position will be available for 30 months starting early spring 2013 in the group of Wieslaw Babik at the Institute of Environmental Sciences, Jagiellonian University, Kraków, Poland.

The postdoc will estimate the extent and timing of genome-wide gene flow between evolutionary lineages within the smooth newt Lissotriton vulgaris. This task is an essential part of a larger project which will test the hypothesis of pervasive interspecific introgression of immune genes evolving under balancing selection. Two Lissotriton newts are ideal to address the problem, because distinguishing introgression from incomplete lineage sorting, a major confounding factor under balancing selection, should be possible in this system.

The successful candidate will have strongs skills and publication record in population genetics, phylogeography or phylogenetic analysis of closely related species; good working knowledge of the Linux shell and programming skills in a scripting language such as Python or Perl are required. Familiarity with Approximate Bayesian Computations (ABC) and Isolation with Migration (IM) models will be beneficial.

If interested, please send a CV and a brief description of research interests to wieslaw.babik@uj.edu.pl

For more information visit www.eko.uj.edu.pl/-molecol/babik Wieslaw Babik

Wieslaw Babik Institute of Environmental Sciences Jagiellonian University Gronostajowa 7 30-387 Kraków Poland tel. +48 12 664 51 71 fax. +48 12 664 69 12 www: http://www.eko.uj.edu.pl/molecol/index.php/-zespol/wieslaw-babik w.babik76@gmail.com

Juniata PennStateU Bioinformatics

Post-Doctoral Associate in Bioinformatics

For a joint position, The Biology Departments at Juniata College, a highly ranked, national liberal arts college of 1,500 students located in the scenic Allegheny Mountains of central Pennsylvania, and nearby (34 miles) Pennsylvania State University seek individuals interested in a career involving both research and teaching to fill a post-doctoral position in the area of Bioinformatics.Experience in performing relevant wet lab and computational analyses associated with RNAseq is essential, and teaching experience is preferred.Experience with Linux and Perl or Python are strongly preferred, as well as experience using compute clusters and Amazon EC2 computing.The Biology Department at Juniata has developed aninnovative curriculum with support from NSF and HHMI, a strong tradition of undergraduate research and a rich history of sending students on to graduate studies and productive careers. Further information about the department can be found at _http://departments.juniata.edu/-biology_ . Successful candidates willteach one introductory or upper level undergraduate course per semester, and instruct in an HHMI funded faculty development workshop that includes RNAseq. Candidates will support a new national initiative, headquartered on the Juniata campus, to***incorporate massively-parallel sequencing technologies into the undergraduate curriculum and research*(www.gcat-seek.org < http://-www.gcat-seek.org >). Concurrently, 25% of time will be spent on functional genomics research in the lab of a sponsoring faculty member at Penn State, a leading institution for bioinformatics research. Applicants withan earned Ph.D. (required) and post-doctoral and teaching experience (preferred) should submit 1) a brief statement of teaching experience, philosophy, and interests; 2) a succinct two-page summary of research interests; 3) a curriculum vitae; 4) undergraduate and graduate academic transcripts; and 5) three letters of recommendation.

All materials should be addressed toGail Leiby Ulrich, Director of Human Resources, Juniata College, 1700 Moore Street, Box B, Huntingdon PA 16652.It is the policy of both Juniata College and Penn State to conduct background checks.Review of applications will begin September 30 and continue until the position is filled.

Juniata College and Penn State will take positive steps to enhance the ethnic and gender diversity on their campuses.We commit ourselves to this policy not only because of legal obligations, but because it believes that such practices are basic to human dignity.AA/EOE

– James H. Marden Professor of Biology Penn State University University Park, PA 16802 814-863-1384 https://homes.bio.psu.edu/people/Faculty/-Marden/index.html Jim Marden <jhm10@psu.edu>

KazimierzWielkiU Poland TreeGenomicsAdaptation

Postdoctoral Research Position on research project: Genomics of adaptation in oak and beech, as model forest tree species

A postdoctoral position is available to work in the Department of Genetics, Kazimierz Wielki University, Bydgoszcz, Poland, on research project headed by prof. Jaroslaw Burczyk.

** Description ** We are seeking an enthusiastic and independent post-doc to conduct research on genomic aspects of bud burst phenology in oaks (Quercus robur and Q. petraea) and beech (Fagus sylvatica). Primary responsibilities of this position include: - plan and oversee sample collections in natural and experimental tree populations; - resequence (using NGS) and characterize some tens of candidate genes (to be selected) potentially related to bud burst phenology in target species; - conduct lab research to genotype (resequence targeted genes) in a large number of individuals; - lead data analyses (including landscape genomics) and manuscript preparation - coordinate undergraduate projects on related research.

Preference will be given to applicants who have experience in molecular biology, genomics, NSG, bioinformatics, and specifically in the complexities of laboratory and computational techniques,

Qualifications

I. Applicants must have a PhD in biology, molecular biology, genetics, or related field. Applicants should have demonstrated experience in genomic lab and data analyses, a consistent record of high-quality publications, and the ability to work independently, but also participate in collaborative team-based projects. The project will require periods of fieldwork. For candidates whose native language is not Polish, fluent English is required.

Terms of Appointment Starting salary is 3,000-5,000 PLN per month, depending on experience. Employment since 1.01.2013 for 48(32) months (depending on the results of interim evaluation process).

Application To apply, please send:

1. application cover letter for employment as adjunct,

2. copy of diploma's of PhD degree or an equivalent document ,

3. curriculum vitae with a qualification, list of publications and information on participation in scientific conferences.

4. reference letters from up to 3 highly recognized scientists in respective fields are expected

The application documents should be delivered to the Institute of Experimental Biology,

Chodkiewicza 30, 85-064 Bydgoszcz, room no 14, before the expiration date (30.11.2012)

Informal inquiries and questions about the position and project might be send to:

Prof. dr hab. Jaroslaw Burczyk

burczyk@ukw.edu.pl

http://www.ukw.edu.pl/pracownicy/strona/-jaroslaw_burczyk/ http://www.nauka.gov.pl/-fileadmin/user_upload/ministerstwo/-Praca_dla_naukowc ow/20121011/7_20121130.pdf

http://ec.europa.eu/euraxess/index.cfm/jobs/-jobDetails/33830998

www(dot)ukw(dot)edu(dot)pl

MID: 2156095 23:38:04 10/17/12

Jarek Burczyk <burczyk@ukw.edu.pl>

London InsectAdaptation

A three year postdoctoral position is available to work on an NERC funded project to investigate the effects of environmental change on insect immune reactivity. The job advert is here: http:/-/www.nature.com/naturejobs/science/jobs/288634-Post-Doctoral-Research-Assistant, or email me on r.knell@qmul.ac.uk for more information.

Rob Knell

Queen Mary University of London

r.knell@qmul.ac.uk

MNHN Paris Adaptation

Post-doctoral Research Associate in Sensory Ecology

A post-doctoral position is available in the laboratory "Adaptive Mechanisms: from Organisms to Communities" (CNRS/MNHN, www.mabiodiv.cnrs.fr) to work on a project relating to sensory ecology of hybrid zones in lentic environments, starting in February 2013. The position is for one year, with a possibility of extension. The net salary is 1715 EUR per month. The job location is at the National Museum of Natural History in Brunoy, 25 km south-East of Paris, France, 25 min by commuter train. Experiments will also be conducted in the laboratory GECCO (Group Ecology and Conservation of Vertebrates) at the University of Angers.

The project investigates the effect of proximal environmental factors (water colour, turbidity, nitrate) on the expression of secondary sexual traits and sexual preferences in Lissotriton newts. The main objective is to determine how the signalling environment modulates the efficiency of sexual communication and influences the dynamics of their hybrid zone. It is funded by the French National Research Agency (ANR).

The successful applicant will have a recent PhD, with a background in sensory ecology, behavioural ecology, or evolutionary ecology of animal communication. Experience with colour signals, visual systems, behavioural experiments, and database management (Access) are additional desired skills. The appointee will also supervise a Master student to conduct his experiments. The position requires proven analytical, written, self-motivation, and interpersonal skills. Ability to communicate in written and spoken English is required.

Applicants should send their CV, a cover letter describing their motivation and prior experience, and letters or contact information of three references to Marc Théry thery@mnhn.fr and Jean Secondi jean.secondi@univ-angers.fr.

Marc THERY

CNRS UMR 7179 Muséum National d'Histoire Naturelle Department of Ecology and Biodiversity Management 1 avenue du Petit Château F-91800 Brunoy France tel +33 (0)1 60 47 92 29 fax +33 (0)1 60 47 92 18 e-mail thery@mnhn.fr http://www.mabiodiv.cnrs.fr/ Marc THERY <thery@mnhn.fr>

MasarykU CzechRepublic OrangutanEvolution

Post-Doctoral Positions Available in Orangutan Behavioral Ecology and Parasitology, Masaryk University

Masaryk University, Brno, Czech Republic has post-doc positions available for two and half year contract

Starting date: February 2013

Position :Relationship between medicinal plants and parasites; development of in vitro and in vivo systems suitable for investigating antiparasitological, antibacterial and anti-inflammatory activity of selected plant extracts on known orangutan parasites.

Research objectives include:

o Developing comparable in vitro and in vivo systems suitable for studies on selected parasites.

o Testing selected compounds for antiparasitic activity on selected parasite cultures through application of biologically active compounds (to both in vitro and in vivo systems), and subsequent evaluation of the parasites pathogenic impact and host immunological status.

o Evaluation the hypothesis that the eating of specific plants or their parts by orangutans corresponds to a decrease in parasite load

Candidate Requirements

Candidates are expected to have strong backgrounds in the fields of parasitology, animal population ecology, molecular biology, and immunohistochemistry, as well as sufficient English language skills (both spoken and written) to fully understand the study materials. Applicants are required to hold a corresponding degree from a university, and be capable of working both independently and in a team.

Candidates should posses:

1. Knowledge of techniques for parasite assays and identification in faecal samples (preferably with orangutan and or primates faecal samples)

2. Experience with parasite culturing technique, working with fluorescent markers

3. Experience with SEM, TEM microscopy technique

4. Experience with Western blot

5. Experience with data analysis in community ecology

and statistical analysis of biological data and multivariate statistical methods

6. Experience with molecular methods of isolation and PCR

Applications and Terms of Employment

To apply, please enclose a cover letter expressing motivation, Curriculum Vitae, a list of publications, and contact information for 3 references. The contract is for 3 years, with a salary of 52,000 CZK per month.

For more information or for questions, please contact Dr. Ivona Foitov - Principal Investigator of project at: foitova@sci.muni.cz.

Erhan YALCINDAG

Post-doctoral research associate

Masaryk University Department of Botany and Zoology Kotlarska, 267 / 2 61137 Brno Czech Republic

ERHAN YALCINDAG <e_yalcindag@hotmail.com>

MaxPlanckInst TheoPopGenomics

Postdoctoral Position - Theoretical population genomics

A postdoctoral position is immediately available in the Biophysics and Evolutionary Dynamics Group at the Max Planck Institute for Dynamics and Self-Organization (http://www.evo.ds.mpg.de/).

How does evolution work? Although (since Darwin) the principles of biological evolution are known, we are unable to predict her course. Rapid biotechnological advances allow, however, a direct view onto the temporal changes in the genome. The postdoc will work on innovative approaches to extract evolutionary history (large scale migrations, selective sweeps, .) from whole genome data sets (humans, flys, .). To this end, he or she will develop theoretical models of evolutionary dynamics at the molecular level that are tested with genetic data.

We are looking for an enthusiastic, science-driven, outstanding young researcher, who enjoys working in a team and has good communication skills. Applicants must hold a PhD degree, preferably in population genetics, computer science, statistical physics or mathematics. The candidate should have strong programming skills (e.g. in C/C++, Java, or R) and previous experience in population genetics. The candidate should also be willing to occasionally travel to *UC Berkeley*, with which a strong collaboration is established.

The successful applicant will receive a 2 years postdoctoral position. The net salary starts at approximately euro 2100,- per month depending on age and experience. Interested candidates should send a cover letter summarizing their research background and interest in the position, CV, and 2 reference letters (preferably as a single PDF file) to: oskar.hallatschek.applications@gmail.com

The Max Planck Society is an equal opportunity employer. Women are especially encouraged to apply; handicapped individuals with equal qualifications will be given preferential treatment.

oskar.hallatschek.applications@googlemail.com

NorthCarolinaStateU StatisticalQuantGenetics

We have a new postdoctoral position opening in the Bioinformatics Research Center at the North Carolina State University. The research will focus on statistical problems in quantitative genomics including genotype-phenotype relationship inference, genetic effect network inference and marker-assisted selection.

People who have strong training in statistics, quantitative genetics and computing are encouraged to apply. Please send CVs and a lit of no less than 2 referees to:

Zhao-Bang Zeng (zeng@stat.ncsu.edu)

North Carolina State University has a long tradition of excellence in research in statistical and quantitative genetics.

zhao.bang.zeng@gmail.com

Ottawa AgrAgriFood EvolutionaryBioinformatics

Postdoctoral fellowship in evolutionary bioinformatics

Agriculture and Agri-Food Canada, Ottawa ON, Canada

Funding is available for a post-doctoral fellowship in the area of evolutionary bioinformatics. The successful candidate will contribute to several lines of research, involving next-generation sequence data analysis, meta-genomics, population genetics, phylogenetics and phylo-geography. Across these lines of research, the Fellow will apply recently proposed probabilistic models for phylogenetic inference, and for the characterization of long-term features of molecular evolution. The Fellow will work under the supervision of Dr. Nicolas Rodrigue, at the Eastern Cereal and Oilseeds Research Centre, located on the Central Experimental Farm in Ottawa, ON, Canada. Candidates must be eligible for the NSERC Visiting Fellowship program (http://www.nserc-crsng.gc.ca/Students-Etudiants/-PD-NP/Laboratories-Labo ratoires/index_eng.asp), and the selected Fellow will initially be offered a 1 year contract, with the possibility of a two-year renewal. Interested candidates should send a cover letter, their CV, and the contact information for three references by email to nicolas.rodrigue@agr.gc.ca.

"Rodrigue, Nicolas" <Nicolas.Rodrigue@AGR.GC.CA>

Paris BacterialGenomics

WHERE : Paris, FRANCE

Laboratory :

Site 1 : UPMC ER5 (Laboratoire de Bactériologie)

Faculté de Médecine Pitié-Salpêtrière

Université Pierre et Marie Curie (Paris 06)

http://www.upmc.fr/fr/recherche/-pole_4/pole_vie_et_sante/-infections_a_mycobacteries_et_antibiotique_er_5.html

Site 2 : Institut de Génétique et Microbiologie UMR8621 / Equipe IGEPE

Faculté des Sciences 91405 Orsay

http://www.igmors.u-psud.fr/spip.php?rubrique152

Contact name :

Wladimir SOUGAKOFF

Contact email :

wladimir.sougakoff@upmc.fr

WHAT: Description of the position

Applications are invited for a post-doctoral position in bacterial genomic. The position is opened in the frame of a collaborative project involving the ER5 team at the medical school Pitié-Salpêtrière (University Pierre et Marie Curie, Paris, France) and the IGEPE team in the Institut de Génétique et Microbiologie (UMR8621, Université Paris Sud, Orsay, France).

Tuberculosis, although mainly prevalent in developing countries, is also a threat in Europe due to the emergence of Multi-Drug Resistant isolates (MDR-TB). We are interested in the transmission dynamic of its agent, /Mycobacterium tuberculosis /complex, in France, especially the transmission of MDR-TB. The project is based on comparative genomic studies and aims to develop new diagnosis tools to characterize large collections of clinical isolates. The project will benefit from the on site availability of a genomic platform (P3S) equipped with an Illumina HiSeq 2000 with the support of bioinformatic engineers (on site 1), and the equipment and know-how on Luminex platform (on site 2).

The candidate should havea PhD in bioinformatics/genomics, with strong interests in the area of infectious diseases and genomics. Skills in handling of NGS data and genome-wide detection of genetic variations (SNPs, indels...) are required. Expertise in bacterial genomics is preferred. He/She should be able to develop the project with some independence and closely interact with biologists to understand the data coming from different sources of experiments and develop new diagnostic tools based on a high-throughput Luminex technology.**

The successful candidate will be working on a project funded by the DIM MalInf program. The position is funded for 18 months, with starting date (latest date) June 1st, 2013. The deadline for applying is February 1ˆst ,2013. The candidate's salary will be approximately 2100 EUR per month. There are important eligibility criteria: (1) Be in possession of a doctoral degree; (2) Be under 35 years old; (3) The candidate must not have benefited from another French postdoctoral fellowship before 2013.

Interested candidates should send a CV, statement of research interests and the names of two references to wladimir.sougakoff@upmc.fr

Sougakoff upmc <wladimir.sougakoff@upmc.fr>

Paris CyanobacterialCompGenomics

Genomic, transcriptomic and proteomic study of in-

tracellular biomineralization of calcium carbonates by cyanobacteria

Postdoctorate position 2 or 3 years

Institute of Mineralogy and Physics of Condensed Matter (IMPMC), Paris

European Research Council Starting Grant

Cyanobacteria are among the most important bacteria involved in the interactions between the geosphere and the biosphere. They are photosynthetic bacteria that appeared more than 2.3 billion years ago. It is usually assumed that by fixing CO2 in the form of organic carbon, they raise the pH of the environment and induce precipitation of calcium carbonates. They may thus have had a major role in the formation of carbonate rocks throughout Earths history. Despite the geochemical importance of cyanobacteria-mediated CaCO3 biomineralization, the mechanistic details of this process are yet poorly understood.

Very recently, we discovered the existence of an early-diverging cyanobacterial species, Candidatus Gloeomargarita lithophora, which can form intracellular carbonates (Couradeau et al., 2012, Science). This challenges all existing models of cyanobacterial calcification which assumed that carbonate precipitation by cyanobacteria was exclusively extracellular and was thus not controlled by the cells. We know almost nothing about the phylogenetic distribution of this capability to produce intracellular carbonates or about the involved biological mechanisms. The study of molecular mechanisms involved in intracellular biomineralization will have deep implications on our understanding of how microbial communities interact with minerals in calcifying environment and their impact on the global carbon cycle at the surface of the Earth.

The present job will consist in studying these particular cyanobacteria that are cultured in the laboratory and for which we have already obtained their genome sequences. Different lines of research are considered: 1) comparative genomics of intracellularly calcifying strains (eventually including additional genomes of newly discovered calcifying strains) with non-calcifying cyanobacteria to pinpoint candidate genes involved in biomineralization; 2) search in sequenced genomes for candidate genes potentially involved in biomineralization and testing their role on carbonate precipitation by heterologous expression in E. coli or any other pertinent model organism; 3) transcriptomics of Gloeomargarita under two culturing conditions: one allowing intracellular biomineralization and the other one not allowing it; 4) extract proteins from intracellular inclusions of carbonates and characterize these proteins by biochemical analysis to help testing the role of specific proteins in biomineralization.

The candidate should have a strong experience in genomics, transcriptomics and proteomics or at least in one of these fields, ideally with a double formation in bioinformatics and wet laboratory techniques. Most importantly, she/he should be motivated by working on an interdisciplinary topic. She/he should have skills for working in a team and supervising PhD students, conducting her/his research autonomously and communicate her/his results in English.

The funding is for 2 or 3 years. It is provided by a Starting Grant from the European Research Council (ERC). Employment will be arranged by the administration of CNRS. The position can open as soon as January, 1st 2013 and should be filled no later than May 2013. Candidates should send a detailed CV with a letter of motivation explaining the motivations for this job to Karim Benzerara, Geobiology team at the Institute of Mineralogy and Physics of Condensed Matter; karim.benzerara@impmc.upmc.fr

Purificacion Lopez-Garcia <puri.lopez@u-psud.fr>

RutgersU EvolutionaryGenomics

Postdoctoral position in Evolutionary Genomics at Rutgers University

Seeking qualified applicants for a post-doctoral position with Andrew Kern in the Department of Genetics and the Human Genetics Institute of New Jersey at Rutgers University. There is no particular project associated with either of these positions, however recent work in the lab spans the intersection of machine learning, population genetics, comparative genomics, and evolutionary biology. More information about the Kern lab can be found here (http://kernlab.rutgers.edu/index.html). More information about the department can be found here (http://genetics.rutgers.edu/). The Kern lab is located on the Busch campus of Rutgers University, in central New Jersey, and is in easy commuting range to New York City.

The ideal candidate would hold a Ph.D. and have a record of research achievement in computational biology, computer science, statistics, or a related field. A background in comparative/population/evolutionary genomics is highly desirable. In addition the candidate should have experience programming in C, a scripting

language (Ruby, Python, or Perl is fine), and would ideally be comfortable with cluster computing environments.

Review of applications will begin immediately and continue until positions are filled. The position could begin as early as January, 2013. Interested candidates should submit an electronic version of their CV along with a cover letter describing their qualifications and relevant experience to Andrew Kern (kern@biology.rutgers.edu)

Andrew Kern Assistant Professor of Genetics Rutgers University kern@biology.rutgers.edu

Kern@dls.rutgers.edu

SheffieldU MaxPlanckInst EvolutionaryBiology

Epigenetic transgenerational effects of parental age on fitness

THE PROJECT

The house sparrow is a major model system for the study of evolutionary physiology, behavioural ecology and molecular ecology. Terry Burke (University of Sheffield, UoS) has studied the wild house sparrow population on Lundy Island since 1997, in cooperation with Mark Rees (UoS), Shinichi Nakagawa (University of Otago), Julia Schroeder (Max Planck Institute for Ornithology, Seewiesen, Germany, MPIO) and others. This has led to fascinating new insights about sexually selected ornamentation, parental care behaviour, and senescence of fitness correlates in this system.

This project, funded by the UK Natural Environment Research Council, is a collaboration between UoS, MPIO, and Otago, in which we will make inferences from the long-term dataset on the pedigreed, wild Lundy island population and use focused experiments on the captive sparrow population to test the hypotheses so generated. Specifically, we will test the potential mechanisms underlying the transgenerational effects of parental age, such as telomere length, stress hormones and other factors. We also aim at testing the implications of transgenerational senescence for the evolutionary theory of ageing. This project will generate new insights on the prevalence, consequences, and mechanisms of epigenetic transgenerational senescence.

The post-holder will assist in a project on transgenerational senescence using two world-class study populations: a long-term dataset on house sparrows on Lundy Island, UK, and a captive breeding population of house sparrows at the Max Planck Institute for Ornithology in Seewiesen, Germany (MPIO). Applicants should have a PhD (or equivalent experience) in evolutionary biology or evolutionary physiology, and have experience of advanced statistical methods. Analytical methods include Bayesian mixed modelling, among others, for meta-analysis and programming for individual-based simulations. The successful candidate will spend time conducting experiments on captive birds in Germany. The project is currently funded until April 2016.

The post is available from 1st January 2013 for 39 months, with an initial appointment of one year. NERC funded. Please apply online: http://www.sheffield.ac.uk/jobs For informal information about the project email Terry Burke <t.a.burke@sheffield.ac.uk> or Julia Schroeder <jschroeder@orn.mpg.de> or Shinichi Nakagawa <shinichi.nakagawa@otago.ac.nz>

julia.schroeder@gmail.com

Spain PlantVirusCoevolution

POSTDOCTORAL POSITION AVAILABLE

In Plant-Virus Interaction and Co-Evolution

Research topics: Within the broad field of the evolution of plant-virus interactions *the post-doctoral scientist to be recruited will participate in defining a specific programme of research that should be related to one of the following subjects: 1) Ecology of virus emergence, 2) Population genetics of plant-virus interactions, 3) Genetics and dynamics of plant colonisation by viruses. *

Funding: Candidate and host group will apply jointly to the Spanish Juan de la Cierva Programme (MINECO-JDC), BOE October 24, 2012 (http://www.boe.es/boe/dias/2012/10/24/pdfs/BOE-A-2012-13213.pdf).

Requisites: Experience in virus evolution or/and population genetics of plants or/and evolutionary biology of host-parasite interactions.

INTERESTED CANDIDATES PLEASE CONTACT

Prof. *FERNANDO GARCÍA-ARENAL *fernando.garciaarenal@upm.es

BEFORE *NOVEMBER 20^th * 2012

For further information about the group: http://-www.cbgp.upm.es/plant_virus.php

Recent publications of the group related to the above-specified topics:* *

* ** *

Pagán I. /et al/. (2008). Host responses in life-history traits and tolerance to virus infection in /Arabidopsis thaliana. *PLoS Pathogens */4:e1000134

González-Jara P. /et al./ (2009). Multiplicity of infection of a plant virus varies during colonization of its eukaryotic host. */Journal of Virology /*83:7487-7494.

Pagán I. /et al./ (2009). Differential tolerance to direct and indirect density-dependent costs of viral infection in /Arabidopsis thaliana/. */PLoS Pathogens/ *5:e1000531.

Pagán I. /et al/. (2010). /Arabidopsis thaliana/ as a model for the study of plant-virus co-evolution. */Philosophical Transactions of the Royal Society B/ *365:1983-1995.

Fraile A /et al/. (2011). Rapid genetic diversification and high fitness penalties associated with pathogenicity evolution in a plant virus*. /Molecular Biology and Evolution/*/./ 28: 1425-1437.

Pagán /etal./. (2012). Effects of biodiversity changes in disease risk: Exploring disease emergence in a plant-virus system. */PLoS Pathogens/ *8:e1002796.

*For additional information on CBGP, please visit **http://www.cbgp.upm*** fernando garcia arenal <fernando.garciaarenal@upm.es>

StanfordU HumanPopGenomics

Hi all,

We are actively looking to fill several post-doc positions in the lab focused on human population genetics and genomics. The research interests of the lab are broad an encompass both medical and evolutionary genomics questions. One of the positions is focused on admixture analysis in Hispanic/Latino and African-American populations with both genotype data and medical phenotypes including a host of cardiovascular traits. We are also collecting exome and full genome sequence data on a diverse set of understudied populations including Mexican Native American groups, Melanesians, and South Africans. I'm looking for both experimentalists who want to develop novel techniques for characterizing genome variation as well as theoreticians/statistical geneticists interested in methods development in population and quantitative genetics. Lastly, we are also looking for a very good computational person interested in exploring the Amazon cloud for building an ancestry deconvolution server. If interested, please send me a CV with cover letter all in PDF format. Our current lab website is being updated, but you can find recent papers from my group here:

http://med.stanford.edu/profiles/-Carlos_Bustamante/ Many thanks,

Carlos

Carlos D. Bustamante, Professor Department of Genetics Stanford School of Medicine 300 Pasteur Drive Lane Building, Room L-301 Stanford, CA 94305-5120 Phone: +1-650-723-6330 Fax: +1-650-723-3667 cdbustam@stanford.edu

"Carlos D. Bustamante" <cdbustam@stanford.edu>

Svalbard Norway EvolutionaryEcology

A 2-year postdoc position in evolutionary ecology is available at the University Centre in Svalbard (UNIS). The project is on modeling of zooplankton life histories and behavior. Deadline is December 1, 2012.

The full announcement is available at: http://www.unis.no/30_ABOUT_UNIS/-4020_Vacant_Positions/documents/-Announcement%20evolutionary%20ecology.pdf
The Post Doc position is on modeling of life history strategies and annual routines of copepods. Our modeling work is motivated by the ability of mechanistic models to look beyond what can be learnt from observed correlations and predict biological responses to environmental change scenarios. The candidate must have a PhD, or equivalent degree, in biology, computer science, or related fields. We look for individuals with experience from quantitative approaches to ecology, including programing skills, and that are familiar with life history theory, optimization models or individual based models.

Kind regards, Øystein Varpe

Øystein Varpe (PhD) Researcher, ecology Akvaplan-

niva +47 97762645 oystein.varpe@akvaplan.niva.no

Adjunct Associate Professor University Centre in Svalbard (UNIS)

Øystein Varpe <oystein.varpe@akvaplan.niva.no>

Tuebingen Germany 2 AncientPathogenGenomics

The Paeleogenetics group at the Faculty of Mathematics and Natural Sciences, Tübingen University, is searching for

Two research fellows (postdocs, TVL-E13)

for a period of 2 years, with potential extension up to 5 years starting in

January 2013 or later.

POSITION SUMMARY

We are looking for two Postdoctoral Research Fellows with a strong bioinformatics background to study the evolution and genetic reconstruction of pathogen and human DNA from an archaeological context using next generation sequencing data.

PRIMARY RESPONSIBILITIES

Both positions are funded by the European Research Council (ERC) as part of a 5 year starting grant with the title "Ancient Pathogen Genomics or re-emerging infectious disease" (APGREID). The aim of the project is to study ancient pathogen genomes from historical pandemics as well as host pathogen interactions throughout time. The primary focus of the research fellows will be the computational reconstruction of ancient pathogen genomes, comparisons of these genomes to modern pathogen strains in a phylogenetic context, and an evaluation of how the noted genetic changes may have influenced virulence over time. We are furthermore interested in calculating mutation rates and divergence times of modern and historical pathogen strains.

A second project will involve the analysis of immunity related genes from human host populations throughout major historical pandemics to get direct insights into host pathogen interactions over time. This research will be focused on pathogens of viral and bacterial origin that continue to affect human populations today.

Both positions may involve fieldtrips in order to identify and sample skeletal remains from historical contexts. Both positions are part of the same research project and will be directly supervised by the PI. The working climate in the paleogenetics group is open with low hierarchical structures and involves brainstorming and interactions with all the team members during weekly meetings and informal discussions.

Supervisory Responsibilities: Both Research Fellows may be expected to co-supervise a PhD student each and potentially other junior staff to assist with the project.

QUALIFICATIONS

A completed Ph.D. in Bioinformatics, Microbiology, Evolutionary Biology, Population genetics, or a related field; post-doctoral research experience is a plus.

SKILLS

A strong sense of team spirit and diplomacy is a requirement. The candidates should have a strong background in bacterial or viral genetics and pathogen evolution. Proficient background in bioinformatics including experience with next generation sequencing data analysis is a must (e.g. BWA, samtools, GATK). Software skills should include, but not be limited to, most of the following: proficiency in general statistical analysis such as R (model testing, etc.); phylogenetic and evolutionary analysis for building phylogenetic trees and other programs for alignment and building likelihood and Bayesian trees (esp. BEAST). Excellent written and verbal communication skills in English and a proven track record in writing and publishing manuscripts are required.

START DATE:

There is a proposed start date of January 1st, 2013. This starts as a two-year position, however funding is available for 5 years in total. Salary is based on the German public funding system(TVL-E13).

How to Apply:

In order to be considered all eligible candidates must email the following

three items: (a) one page cover letter, (b) CV, and (c) three references

to Johannes.krause@uni-tuebingen.de.

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

Thank you,

Johannes Krause

Dr. rer. nat. Professor for Paleogenetics Institute of Archaeological Sciences(INA) Faculty of Mathematics

and Natural Sciences

Eberhard-Karls University Tuebingen Ruemelinstr. 23 72070 Tuebingen Tel: +49 (0) 7071 29 74 089

Johannes Krause <johannes.krause@uni-tuebingen.de>

TulaneU Phylogenomics Systematics

A postdoctoral research associate position is available in the Derryberry lab (elizabethderryberry.tulane.edu) in the Department of Ecology and Evolutionary Biology at Tulane University. This position is part of NSF funded research on the systematics of the largely Neotropical radiation of suboscines (Aves: Tyranni). This research involves faculty from five partner institutions (LSU, AMNH, Smithsonian, KU, and MPEG), so the successful candidate will be joining a highly collaborative and productive research team.

The postdoctoral associate will be expected to contribute to (1) generating a species-level phylogeny of the 1000+ suboscine species using genomic approaches and (2) subsequent analyses intended to improve understanding of diversification in large radiations. The ideal candidate has experience in generating, assembling, and analyzing next-generation sequence data. Prior experience working on suboscines is also desirable, but not required. The Derryberry lab also has a strong interest in the tempo and mode of behavioral evolution, so candidates with an interest in exploring these types of questions in a phylogenetic context are strongly encouraged to apply. A strong publication record is preferred.

An initial appointment will be for one year, with continuation for at least one additional year dependent upon performance.A start date by February 2013 or earlier is preferred. Salary will be commensurate with experience and qualifications. Send via email attachment a letter of application, curriculum vitae, statement of research interests, and names and addresses of three references to Dr. Elizabeth Derryberry at ederrybe@tulane.edu. Tulane University is an Affirmative Action/Equal Employment Opportunity Employer. Women and minorities are encouraged to apply.

– Elizabeth Derryberry, Ph.D. Assistant Professor Department of Ecology & Evolutionary Biology Tulane University New Orleans, LA 70118 504-862-8285 (office) 504-862-8706 (fax) http://-elizabethderryberry.tulane.edu ederrybe@tulane.edu

UAberdeen 2 EvolutionaryBiol

1) Postdoctoral Researcher in Theoretical Evolutionary Biology

We seek a Postdoctoral Research Fellow in Theoretical Evolutionary Biology to join the research group of Dr Jane Reid at the University of Aberdeen, UK.

The post is central to a major European Research Council-funded project that aims to 1) build new theory explaining the evolution and persistence of reproductive strategies, and 2) test this theory using >20 years of complete life-history and pedigree data from free-living song sparrows (Melospiza melodia).

The Research Fellow will develop new (co)evolutionary theory of reproductive strategies, specifically polyandry and inbreeding, using mathematical and/or simulation modelling approaches. They will work in close collaboration with Dr Reid, other members of the ERC project team and key international collaborators to develop this theory and test it using wild population data. They will also have substantial opportunities to develop their own ideas and approaches to the overall problem.

The post provides an exciting opportunity for a highly motivated researcher with expertise in mathematical or simulation modelling, and/or quantitative or theoretical evolutionary biology, and interest in confronting rigorous theory with empirical data. It provides an opportunity to work within a dynamic and successful international research team with ample opportunities for further international collaboration, high-profile publication and career development (see http://-www.abdn.ac.uk/biologicalsci/staff/details/jane.reid).

The post is funded by an ERC Starting Grant to Dr Jane Reid. It will be offered for a period of 3 years in the first instance.

The post is open to any nationality. Should you require a visa to undertake paid employment in the UK you will be required to fulfil the minimum points criteria to be granted a Certificate of Sponsorship and Tier 2 visa.

Informal enquiries are extremely welcome and should be directed to Dr Jane Reid (jane.reid@abdn.ac.uk).

To apply online for this position visit www.abdn.ac.uk/jobs (School of Biological Sciences).

2) Postdoctoral Researcher in Evolutionary Quantitative Genetics

We seek a Postdoctoral Research Fellow in Evolutionary Quantitative Genetics to join the research group of Dr Jane Reid at the University of Aberdeen, UK.

The post is central to a major European Research Council-funded project that aims to 1) build new theory explaining the evolution and persistence of reproductive strategies, and 2) test this theory using >20 years of complete life-history and pedigree data from free-living song sparrows (Melospiza melodia).

The Research Fellow will develop and implement statistical quantitative genetic and phenotypic analyses of the song sparrow dataset, specifically with respect to polyandry, inbreeding, inbreeding avoidance and fitness components in males and females. They will work in close collaboration with Dr Reid, other members of the ERC project team and key international collaborators to undertake appropriate analyses and thereby test key components of evolutionary theory. They will also have substantial flexibility to develop their own ideas and approaches to the overall problem, potentially including opportunities for fieldwork as well as data analysis.

The post provides an exciting opportunity for a highly motivated researcher with expertise in quantitative genetics, mating system variation and/or evolutionary biology, and interest in confronting evolutionary theory with empirical data. It provides an opportunity to work within a dynamic and successful international research team, with ample opportunities for further international collaboration, high-profile publication and career development (see http://-www.abdn.ac.uk/biologicalsci/staff/details/jane.reid).

The post is funded by an ERC Starting Grant to Dr Jane Reid. It will be offered for a period of 3 years in the first instance.

Informal enquiries are extremely welcome and should be directed to Dr Jane Reid (jane.reid@abdn.ac.uk).

The post is open to any nationality. Should you require a visa to undertake paid employment in the UK you will be required to fulfil the minimum points criteria to be granted a Certificate of Sponsorship and Tier 2 visa.

To apply online for this position visit www.abdn.ac.uk/jobs (School of Biological Sciences).

Dr Jane M. Reid

Royal Society University Research Fellow School of Biological Sciences University of Aberdeen Tel: 01224 274224 Email: jane.reid@abdn.ac.uk

"Reid, Dr Jane M." <jane.reid@abdn.ac.uk>

UCL London Statistical Genomics of Pathogens

Research Associate in Statistical Genetics of Infectious Diseases (36 months) Starting salary: £28,983 to £38,951, excluding London Allowance of £2,781

The Research Associate in Statistical Genetics will be funded by the ERC and based in the UCL Genetics Institute. The post holder will join a dynamic and well-funded research group led by Francois Balloux. This team is running in-house projects and is involved in a number of exciting international collaborations. We do not feel there is a fundamental divide between fundamental evolutionary research and directly applied medically relevant science. We also aim to develop a multidisciplinary environment and work in close collaboration with statisticians, computer scientists, clinicians, structural biologists, microbiologists and engineers.

The successful applicant will work on the development and application of new methodologies to extract biologically and medically relevant information from genomic data from a variety of pathogens. The aims are to contribute to the development of improved methods for reconstructing outbreaks and epidemics, including the reconstruction of transmission chains (i.e. who infected whom). The concomitant goal is to get an improved understanding of mutation accumulation over time, in particular in the context of antibiotic resistance in bacteria.

Applications are welcome from candidates with research expertise in statistical and computational methods used for genetic data. A PhD in a relevant subject is required.

For further details about the vacancy and how to apply online please go to http://www.ucl.ac.uk/hr/jobs/ and search on Reference Number 1287786.

Please include a brief personal statement, explaining how your qualifications and experience make you a suitable candidate for this job, a CV and the names and email addresses at least two references.

Informal enquiries should be addressed to Professor Francois Balloux email: f.balloux@ucl.ac.uk . If you have any queries regarding the application process, please contact Jeremy Guyer, jeremy.guyer@ucl.ac.uk .

Closing Date: 12 November 2012 Interview Date: 27 November 2012

Francois Balloux Professor of Computational Systems Biology UCL Genetics Institute Department of Genetics, Evolution and Environment University College London Gower Street London WC1E 6BT Tel: ++44 (0) 20 3108 1601 (int. 51601) Skype: francois.balloux Email: f.balloux@ucl.ac.uk Web: http://www.ucl.ac.uk/ugi/research/francoisballoux f.balloux@ucl.ac.uk

UCalifornia Berkeley PopGenCompBio

Postdoctoral Research Associate Position in Evolutionary and Computational Biology

A postdoctoral position is available in Prof. Yun S. Song's research group in the Computer Science Division and the Department of Statistics at the University of California, Berkeley.

This position is open to candidates with a Ph.D. or equivalent degree who have demonstrated excellence and productivity in research. The successful candidate will have strong skills in computer science, mathematics, and/or statistics, and have strong interest in developing methods to solve biological problems. A background in population genetics and/or computational biology is preferred, but not absolutely required. This position will involve applying probability theory and statistics, as well as developing efficient computational methods, to tackle various problems in evolutionary biology and related fields.

This is a one-year position with the possibility of extension depending on mutual agreement and the continuation of funding.

The position is available immediately, but the start date is flexible. The position will remain open until filled or December 1, 2012, whichever comes first.

If interested, please send a CV and a brief description of research interest to yss@eecs.berkeley.edu

The University of California offers a competitive benefits package including medical, dental, vision, life insurance, accidental death and dismemberment insurance, and short and long term disability insurance.

The University of California is an equal opportunity/affirmative action employer.

UCalifornia Davis PopulationBiol

EFFECTIVE: October 12, 2012

DEADLINE: November 26, 2012

POSTDOCTORAL FELLOW IN POPULATION BIOLOGY–The Center for Population Biology at UC Davis invites applications for a Postdoctoral Fellowship in Population Biology, broadly defined to include ecology, phylogenetics, comparative biology, population genetics, and evolution. We particularly encourage applications from candidates that have recently completed, or will soon complete, their PhD.

The position is for TWO YEARS, subject to review after one year, and can begin as early as 1 July 2013. This position is covered by a collective bargaining unit. It has an annual starting salary of $39,264 plus benefits, and $6,000 per annum in research support. The Fellow will be a fully participating member in the Center for Population Biology and will be expected to have an independent research program that bridges the interests of two or more CPB faculty research groups. We strongly encourage candidates to contact appropriate faculty sponsors before applying. We also ask that each Fellow propose a workshop, discussion or lecture series that they could offer to the community of population biologists at UC Davis; faculty sponsors or the Director of CPB, Jay Stachowicz, can provide additional input on this aspect of the fellowship. For samples of past workshop abstracts and more information about UC Davis programs in population biology, see http://cpb.ucdavis.edu/-CPB%20Postdoc%20Fellowship.html . ONLINE APPLICATION: Interested candidates should submit a cover letter, CV, a short (1-2 page) description of research accomplishments, a short (1-2 page) description of proposed research including potential faculty mentors, a brief (1 page or less) description of their proposed workshop, and copies of two publications, all in PDF format at: https://recruitments.ucdavis.edu/-PositionDetails.aspx?PositionID=116&Title=CPB-Postdoctoral-Fellow .We require 3 letters of recommendation. The referees you list in the online application will receive an automatic notification from our system instructing them how to directly upload letters to our website. Refer to the on-line instructions for further information. For full consideration, applications (including letters of reference) should be submitted by

5:00 p.m., 11/26/2012. The University of California is an affirmative action/equal opportunity employer with a strong institutional commitment to the development of a climate that supports equality of opportunity and respect for differences. E-mail questions to tgarcia@ucdavis.edu.

Theresa Garcia <tgarcia@ucdavis.edu>

UEdinburgh MarineMicrobeEvolution

A 3-year, ERC-funded, postdoctoral research position is available with Sinéad Collins at the University of Edinburgh (http://www.smallbutmighty.bio.ed.ac.uk/).

Evolution of Ostreococcus tauri in the face of multiple environmental stressors

Because marine phytoplankton have large population sizes and reproduce quickly, they have the potential to evolve over months or years, and there is evidence that both freshwater microalgae and calcifying marine phytoplankton can evolve in response to CO2 enrichment. Laboratory studies are typically done in simple environments, whereas all species evolving in the wild must do so in environments where many stressors co-occur. Current evolutionary theory (mainly from evo-devo) deals primarily with the effect of organismal complexity on evolutionary dynamics and outcomes. This project will use experimental microbial evolution to investigate how the complexity of environmental change affects evolution in several ecotypes of Ostreococcus tauri. While the overarching theme of the project is fixed, there is plenty of opportunity to gear the project towards the particular interests and expertise of the successful candidate (ie - this can be a microbial ecology project, or an evolutionary genetics project), and the successful candidate will be expected to contribute creatively to the project.

Interested candidates must hold a PhD in evolutionary biology or marine microbiology, with a strong interest in whichever of the two fields they are not formally trained in. Laboratory experience is required.

Starting time is flexible but must be before May 1, 2013. Ongoing interviews will be held until a suitable candidate is found.

For more information, contact Sinéad Collins: s.collins@ed.ac.uk

The University of Edinburgh is a charitable body, registered in Scotland, with registration number SC005336.

hkuehne@staffmail.ed.ac.uk

UFribourg EvolutionInvasivePlants

Postdoctoral Position available at the University of Fribourg, Switzerland Department of Biology / Ecology & Evolution Postdoctoral Position in Invasion Biology & Biological Control Rationale:

Common ragweed, Ambrosia artemisiifolia L. (Asteraceae), has uniquely raised the awareness of invasive alien plants in Europe. A main problem with this plant is its particularly large production of highly allergenic pollen generating huge medical costs and reduced quality of life among the allergic population. The majority of land infested by ragweed in Europe is non-crop land. However, ragweed also has increasingly become a major weed in European agriculture, especially in spring-sown crops such as sunflower, maize, sugar beet and soya beans. The threat of ragweed is further accentuated by climate change, posing a significant risk to society even in countries presently not affected. In June 2012, we received approval for a coordinated European research program on "Sustainable Management of Ambrosia artemisiifolia in Europe" (COST FA1203-SMARTER). We expect to officially start by November 2012. By now, more than 20 countries have signed the Memorandum of Understanding to participate in this Action, with more than 100 researchers involved so far. A main component will be to develop a biological control program for ragweed in Europe, constituting the first European-wide weed biocontrol project. For this, we can capitalize on recent biocontrol achievements in Australia and China and on a recent review on prospects for biological control of Ambrosia artemisiifolia, in which we discuss and propose a prioritization of biological control candidates for both a classical and for a inundative biological control approach in Europe (Gerber et al. 2011; Weed Research 51, 559-573).

We now seek a highly motivated person to join our team at the University of Fribourg. Initially, the position will involve project development (support of the coordinator in developing the Action, particularly the biocontrol component) and will then shift to a full research position on the efficacy and biosafety of selected biological control agents, and the integration of biological control into other management measures.

Requirements Doctoral degree, preferentially in the field of plant invasions, entomology and/or biological weed control.

Salary and conditions Salary dependent on age and status (gross salary in the first year about CHF 60'000). Start date: preferentially 1 Nov. 2012, or early 2013. The position is initially for 1 year, but we will seek for funding to extend it to 2-3 years.

Applications Applicants should send their CV, including the publication list, a short summary of research experience and interests, and the names of two professional referees to Heinz.mueller@unifr.ch.

For further information, please contact: Prof. Dr. Heinz Müller-Schärer, tel: + (41) (0) 26-300 88 35/50 or + (41) (0) 79-787 35 71, cf. also http://-www.unifr.ch/biol/ecology/muellerschaerer/group/-mueller/webpage/ for further information.

Best,

Yan

Yan Sun PhD Student CABI Rue des Grillons 1 CH-2800 Delémont Switzerland

Telephone: +41 (0)32 421 4887 Fax: +41 (0)32 421 4871 Email: y.sun@cabi.org Visit us at www.cabi.org<http://www.cabi.org/- Our centre annual report 2009 is available at www.cabi.org/switzerland<http://www.cabi.org/-switzerland Yan Sun <y.sun@cabi.org>

UJyvaskyla ParasiteEvolution

Postdoctoral position at University of Jyväskylä (Department of Biological and Environmental Science), Finland

EVOLUTIONARY ECOLOGY OF CO-INFECTIONS IN PARASITES WITH COMPLEX LIFE CYCLES

Wild hosts are typically infected with a range of parasite species and genotypes of one species at the same time. This has significant implications for parasite-parasite interactions (one factor underlying parasite virulence) and for host's ability to defend itself against infections. These associations may also be subjected to considerable variation depending on the stage of a parasite life cycle. This is particularly true for parasites with complex life cycles that include several consecutive hosts with different conditions for co-infections in each. However, very little is currently known about these interactions in natural host-parasite systems.

We are looking for candidates to fill a postdoctoral position in a project exploring responses of parasites and their hosts to multiple parasite species and genotype infections. The aims of the project are to determine (1) the role of antagonistic and facilitative parasite interactions in shaping co-infection dynamics, (2) the role of different types of host responses in determining the outcome of multiple infections, and (3) the influence of spatiotemporal dynamics of host-parasite interactions on patterns of parasite community assembly. Considerable latitude in specific research questions will be given according to personal interests of the candidate.

Candidates should have a PhD in evolutionary biology/genetics/parasitology, or related field. Starting date is 1st of January 2013 or soon after, duration of the post is 2 years. The post is funded by the Academy of Finland with a salary of approx. 2900-3600 Euros per month depending on the qualifications of the candidate.

If interested, send a brief description of work experience and interests along with CV, list of publications, and contact details of at least two references as a single PDF to Dr. Anssi Karvonen (anssi.t.karvonen@jyu.fi). Candidates will be considered until the post is filled. For more information visit http://users.jyu.fi/ ˜ anskarv/ Dr. Anssi Karvonen

anssi.t.karvonen@jyu.fi

Karvonen Anssi <anssi.t.karvonen@jyu.fi>

UKansas MolecularSystematics

DESCRIPTION: A postdoctoral researcher position is available in the research group of Dr. Andrew Short in the Department of Ecology and Evolutionary Biology and Biodiversity Institute at the University of Kansas. We seek applicants with research interests and demonstrated experience in modern methods in molecular systematics and biogeography. The selected candidate will conduct both independent and collaborative research on the evolution and ecology of aquatic beetles, with an emphasis on ecological diversification within and between aquatic and terrestrial habitats. A secondary research focus on biogeography, with an emphasis on the Guiana Shield region, is also desired. Such research may include using molecular data to develop

phylogenetic hypotheses, examining rates and timing of diversification, exploring the ecological basis of habitat transitions, and travel for fieldwork and national meetings. The selected candidate will also contribute to the training and development of graduate and undergraduate students in the Short lab group. For more information on the research group: https://sites.google.com/-site/theshortlab/ . RESPONSIBILITIES AND PERCENT OF TIME: 80% Plan, coordinate, execute, and publish research in the evolution and biogeography of aquatic beetles, both independently and in coordination with other lab personnel. 10% Oversee and contribute to the training and professional development of undergraduate and graduate students. 10% Assist with lab management and operations.

REQUIRED QUALIFICATIONS: - Ph.D. in Evolutionary Biology, Entomology, or related field by date of employment. - Record of excellence in research as demonstrated by publication in peer-reviewed journals and written statement of research experience and interests - Demonstrated experience with modern molecular methods in systematic biology (generation and analysis of DNA sequence data). - Ability to conduct fieldwork in trying conditions as demonstrated by prior field experience

DESIRED QUALIFICATIONS: Research experience in freshwater aquatic systems Research experience in biogeography Experience mentoring undergraduate students

Target date of employment: January 15, 2013 (Negotiable)

APPLICATIONS: Applicants should submit 1) a current CV, 2) a statement of research experience and research interests (not to exceed two pages in total), and 3) a list of three professional references and their contact information. Review of applications to begin 15 October 2012 and continue until the position is filled. Apply to: http://jobs.ku.edu and search for Position 00000300. EO/AA employer.

aezshort@ku.edu

ULausanne DrosophilaGenomics

Postdoc: genomics of experimental evolution in Drosophila

A postdoctoral position is available in Tad Kawecki's group at the Department of Ecology and Evolution, University of Lausanne, Switzerland. We are looking for a qualified and motivated researcher for a project aiming to uncover candidate genetic and molecular changes underlying evolution of improved tolerance to chronic juvenile (larval) malnutrition in Drosophila melanogaster. The project will involve whole-genome resequencing of replicated Drosophila populations which, in the course of 150 generations of experimental evolution, evolved markedly improved ability to develop on a low quality food. At the phenotypic level, these populations show a variety of life history, physiological and behavioral adaptations, and the project will help to uncover their genomic bases, as well as point to other mechanisms of malnutrition tolerance. The postdoc will also collaborate/co-supervise a PhD student carrying out RNAseq on the same populations. It has been increasingly recognized that responses to nutritional stress during development may have far-reaching consequences for adult life, including the rate of aging. At the same time, mechanisms of responses to nutritional environment seem highly conserved. Thus understanding how evolution shapes these responses is likely to throw light on early-life determinants of human aging and metabolic disease.

The project requires a good background in bioinformatics, statistics and/or population genetics, and an interest in adaptive evolution. Wet lab skills are not essential. The candidate is expected to start in the first half of 2013 (negotiable). The project is envisioned for two years; prolongation for up to 5 years on follow up or other projects may be possible. The initial annual salary is about CHF 60,650 (about US$ 65,000 or Euro 50,000). The group is English-speaking and no-preexisting knowledge of French is required, but learning basic French would make living in Lausanne easier.

Lausanne is a medium-sized city on the shores of Lake Geneva, surrounded by a wine growing region recognized as a UNESCO World Heritage Site, and within one hour of the Alps. It offers a great variety of cultural, recreational and outdoor opportunities. The Department of Ecology and Evolution (www.unil.ch/dee) is a vibrant research community, with 22 research groups, over 100 graduate students and over 40 postdocs, and is the lead institution of the inter-university Doctoral Program in Population Genomics. The High Performance Computing Center of the Lausanne University (VitalIT) offers excellent computational infrastructure and support for the project.

To apply, send a single pdf file with a motivation letter, cv, a description of your research experience and interest, and names of 2-3 referees to tadeusz.kawecki@unil.ch, with "Postdoc position" in the subject line. The review of applications will start

on November 19, 2012 and will continue until a suitable candidate is found.

Tadeusz J. Kawecki Associate Professor Department of Ecology and Evolution University of Lausanne Le Biophore, CH 1015 Lausanne, Switzerland

tadeusz.kawecki@unil.ch

UMaryland Baltimore EvolutionaryBiol

The University of Maryland Baltimore County invites nominations and applications for the UMBC Postdoctoral Fellows Program for Faculty Diversity.

UMBC is dedicated to ensuring a diverse, scholarly environment and encouraging outstanding individuals to enter the academic profession. The purpose of the Program is to support promising scholars who are committed to diversity in the academy and to prepare those scholars for possible tenure track appointments at UMBC. We are particularly interested in receiving applications from individuals who are members of groups that historically have been underrepresented in the professoriate. UMBC will appoint recent recipients of the Ph.D. as Postdoctoral Fellows for a two-year term beginning July 1, 2013. The fellow will receive a starting stipend of $40,000, health benefits, $3,000 for conference travel and preparation of scholarly work, office space with computer, library and other privileges at the university. During the two-year term of appointment, the fellow will teach one course a year in the host department. All fellows are expected to be in residence during the academic year and participate in departmental seminars and related activities. Each fellow will be provided teaching and research mentors and specialized professional development opportunities across the campus. The remainder of the fellow's time will be devoted to pursuing research.

The Biological Sciences department at UMBC has an active group of evolutionary biologists and ecologists. Please visit our website at www.umbc.edu/-biosci/faculty or contact us directly:

Tom Cronin (Cronin@umbc.edu)

Jeff Leips (leips@umbc.edu)

Bernie Lohr (blohr@umbc.edu)

Tamra Mendelson (tamram@umbc.edu)

Kevin Omland (Omland@umbc.edu)

Deadline: November 16, 2012.

Link to application process:

http://www.umbc.edu/facultydiversity/pdf/2013-2015Cohort_App.pdf Tamra C. Mendelson Associate Professor Department of Biological Sciences University of Maryland Baltimore County 1000 Hilltop Circle, Baltimore MD 21250 tamram@umbc.edu — 410-455-2267 http://www.umbc.edu/biosci/general/user/tamram tamram@umbc.edu

UMichigan:CanineGenomeEvolution

Postdoctoral Associate in Canine Genome Structural Variation

Postdoctoral positions are available with Jeffrey Kidd in the Department of Human Genetics at the University of Michigan Medical School in Ann Arbor. This position is focused on applying experimental and computational approaches to understand the impact of genome rearrangement, copy-number variation, and other aspects of genome biology to canine evolution.

The applicant should have a Ph.D. in genetics, molecular biology, bioinformatics, computational biology or a related field and experience in the analysis of genome-wide data. We are a genomics lab with both experimental and computational components. Excellent written and oral communication skills are required.

Successful applicants will be part of a cutting-edge research program in genomics with ample opportunities for collaboration with researchers at the University of Michigan and around the world.

To apply, send a CV, cover letter describing your research experiences and ongoing research interests, and contact information for up to 3 references to Jeffrey Kidd at jmkidd@umich.edu

jmkidd@med.umich.edu

UNeuchatel HostParasiteEvolution

A 3-year postdoc position, funded by the Swiss National Science Foundation for research on the evolutionary

ecology of host-parasite interactions is available in the group of Jacob Koella at the University of Neuchâtel from February 1, 2013 (with some flexibility).

The general goal of my group is to integrate evolutionary and ecological thinking into the epidemiology and control of infectious diseases. We develop the theoretical basis of this integration and test empirically the assumptions and predictions of the theory, using malaria, microsporidians and their mosquito hosts as experimental systems.

The postdoc-project will integrate resource ecology with the within-host dynamics of parasite to obtain a better picture of the evolution of the host-parasite interaction. This approach explicitly takes into account a fundamental, yet largely neglected, aspect of parasites: that they steal resources from their host to support their own development. Resource ecology thus gives a mechanistic basis of the host's and the parasite's development, and thereby brings theory in closer contact with experimental observations, leading to a more realistic description of the host-parasite interaction. The experimental system will be the microsporidian *Vavraia culicis* and its host, the mosquito *Aedes aegypti*.

The postdoc will collaborate with a PhD student to be hired on the same grant to integrate the theoretical and experimental approaches of the project. I expect that the postdoc will work theoretically end experimentally; the balance of the two approaches depends on the postdoc's and the PhD student's interests.

The position requires an independent, highly motivated, creative, and scientifically curious individual with a strong background in evolutionary biology and an interest in parasitology. Good knowledge of evolutionary theory is a prerequisite. The generous salary is in accordance with the standards of the Swiss National Science Foundation.

Neuchâtel is located in the French part of Switzerland and is an attractive city with a high quality of life. The city is located on the shore of Lake Neuchâtel with the Jura Mountains to the North and a view of the Bernese Alps to the South. For outdoors enthusiasts, this is an excellent area for outdoor activities such as hiking, climbing or skiing.

Formal applications should include: a cover letter (in English) indicating research interests, your CV including a summary of previous research, and two letters of reference. Application deadline is November 18, 2012. Applications and informal enquiries must be submitted by email to: jkoella@gmail.com

Jacob Koella

Institut de Biologie Université de Neuchâtel rue Emile-Argand 11 2000 Neuchâtel Switzerland

jkoella@gmail.com

UNorthCarolina Charlotte BioinformaticsGenomics

The University of North Carolina at Charlotte (UNCC), Department of Bioinformatics and Genomics, seeks postdoctoral fellows with recent Ph.D. degrees. Valuable experience includes:

1) genomic sequencing of bacteria, Sanger and nextgen sequencing of markers from animal tissues and bacteria, and rna-seq. 2) development and execution of workflows for analyses of next generation sequence data. and 3) publication of results.

The fellows will work with a variety of stakeholders with backgrounds in infectious diseases, evolution and tree of life studies, public health, forensics, and computer science, towards mutual research goals. Please send curriculum vitae and contact information to unccpostdoc@gmail.com

Dan Janies <unccpostdoc@gmail.com>

UOxford 2 StatisticalGenetics

POSTDOCTORAL RESEARCH SCIENTIST IN STATISTICAL GENETICS (TWO POSITIONS AVAILABLE)

THE WELLCOME TRUST CENTRE FOR HUMAN GENETICS, UNIVERSITY OF OXFORD, UK

Grade 8: £37,012-£44,166, with a discretionary range to £48,246 p.a. Applications where not all the set criteria are met will be considered, and if appointed, will be at the appropriate salary range of Grade 7: £29,249-£35,938 p.a., with amended duties and responsibilities.

Applications are invited for up to two Postdoctoral Research Scientists in Statistical Genetics to join the research group of Prof Peter Donnelly FRS, the Centre Director. Both posts will involve working on problems at the cutting-edge of human genetics, and represent exciting opportunities for statistical geneticists, or those

with strong statistical backgrounds and skills wishing to move into this field.

One post is available to work on the People of the British Isles (POBI) project; a Wellcome Trust funded collaborative study aimed at understanding patterns of genetic variation within the UK and using these to learn more about the history of the peoples of the British Isles. The project has collected a large and unique dataset, whose analysis, together with genetic data from other European populations, has revealed fascinating patterns of fine-scale geographic differentiation within the United Kingdom, and provides answers to a number of historical and archaeological questions which had been unresolved. On-going challenges are to extend this work to a wider set of populations, to analyse whole-genome DNA sequence data which is currently being collected on a subset of the POBI individuals, and to further develop the statistical methods underpinning analyses of population structure. Applicants should have a strong background in statistical genetics, ideally in applications to population structure, or a strong background in another area of modern computational statistics and the enthusiasm and aptitude to move into statistical genetics. You will have good computational skills and experience of a low-level programming language such as C or C++.

A second post is available to work on research projects funded by a Wellcome Trust Senior Investigator Award to Professor Donnelly. These include work on: 1) The development and application of statistical methods for genomic sequence data in health and disease; 2) Analysis of genomic sequence from bacterial isolates; or 3) mammalian recombination. We seek applicants with a strong background in, and understanding of, modern statistics, with an interest in applying their skills to some of the exciting problems in genetics research, with the ability to lead and assist in the development of novel methods in that context. Previous experience in genetics is not essential, but it is necessary to have the skills and enthusiasm for applying statistical methods to large genetics datasets, driven by interesting scientific questions.

Applicants for both posts should have a PhD in statistics or quantitative genetics, or equivalent experience. As you will be managing the day-to-day running of the research project, good organisation and communication skills are essential.

The positions are available for a fixed period of two years and are funded by the Wellcome Trust.

To apply for the Postdoctoral Research Scientist in Statistical Genetics post (ref: 104896) and for further details, including a job description and person specification, please click on the link below: https://www.recruit.ox.ac.uk/pls/hrisliverecruit/erq_jobspec_version_4.jobspec?p_id=104896 To apply for the Postdoctoral Research Scientist in Statistical Genetics: Population Structure and Demographic History post (ref: 104202) and for further details, including a job description and person specification, please click on the link below: https://www.recruit.ox.ac.uk/pls/hrisliverecruit/erq_jobspec_version_4.jobspec?p_id=104202 Only applications received before 12:00, midday on Thursday 15th November 2012 can be considered. You will be required to upload a CV and supporting statement as part of your online application, please quote the relevant reference as quoted above in all correspondence.

donnelly@well.ox.ac.uk

UOxford GeneFunctionEvolution

Postdoc position in gene function evolution, University of Oxford, UK. Two-year postdoc position available in Peter Holland's lab studying functional evolution of homeobox genes. Require experience of protein expression, ChIP, SELEX or other biochemical techniques, plus interest in genome evolution. Further information at http://www.zoo.ox.ac.uk/jobs or email recruit@zoo.ox.ac.uk quoting reference 104541. Closing date 10 October 2012.

peter.holland@zoo.ox.ac.uk

USDA Cornell InsectPopulationGenetics

POST-DOCTORAL RESEARCH POSITION IN INSECT POPULATION BIOLOGY/GENETICS

A post-doctoral position is available as part of a collaborative project between Cornell University and USDA-APHIS to develop microsatellite markers and SNPs for distinguishing geographic populations of gypsy moth. We have identified large numbers of microsatellites and SNPs that need to be evaluated for their utility in distinguishing between gypsy moth populations from Asia and those already present in North America (intro-

duced from Europe). The candidate will also be part of a collaboration to identify markers linked to traits (female flight, etc.) in the Asian strains that the USDA considers a threat to the forest systems of the US and to the ability of USDA to manage gypsy moth programs in the US. The person filling the position will be hired by Cornell University and will be under the direction of Dr. Richard Harrison in the Department of Ecology and Evolutionary Biology. However, the candidate will be stationed at and most of the work will be done at the USDA Otis Center for Plant Health Science and Technology Laboratory, located on Cape Cod in Buzzards Bay, MA. This USDA laboratory is fully equipped to conduct the work and importantly has a collection of samples from throughout the range of the gypsy moth, totaling over 15,000 specimens. The goal of the project is to develop a suite of markers that can distinguish moths intercepted/trapped in the United States that are of Asian origin. Additional, related work may include developing bar codes to distinguish other Lymantriid species.

The individual will also have the opportunity to collaborate on work on pest identification issues related to other organisms targeted by APHIS in its exclusion or managements programs. Two ongoing studies are (1) a port monitoring program that aims to provide bar codes for intercepted wood boring insects, and (2) a large multi-state eradication program for the Asian long horned beetle that needs to distinguish the source(s) of recently established populations.

Qualifications: The successful candidate must have a Ph.D. and experience using molecular techniques (PCR, sequencing, genotyping) in population biology as well as familiarity with methods of analysis of the genetic structure of natural populations. Ideally, the candidate would have direct experience with generating and analyzing microsatellite and/or SNP data.

Terms of Appointment: Starting salary is $40,000-$42,000, depending on experience. Funds are available for one year, and renewable for a second year pending satisfactory progress. The position is available immediately.

How to apply: Applicants should send via e-mail a CV and a cover letter explaining their interest in the position to Richard Harrison (rgh4@cornell.edu) in the Department of Ecology and Evolutionary Biology at Cornell University. Applicants should also arrange to have 2-3 letters of reference sent via e-mail to the above address. Applications should be sent as soon as possible, but must be received no later than November 15.

Cornell University is an equal opportunity, affirmative action educator and employer. Applications from women and minorities are encouraged.

Richard Harrison Professor Ecology and Evolutionary Biology Corson Hall Cornell University Ithaca, NY 14853 rgh4@cornell.edu 607-254-4223

rgh4@cornell.edu

UStAndrews GeneticsBehaviourEvolution

Deadline extended to 24th October

Postdoctoral Research Fellow - ML4136 Description School of Biology, Salary: £30,122 - £32,901 per annum, Start Date: As soon as possible, Fixed Term: 3 years

A three-year post-doctoral position is available to work in the laboratory of Mike Ritchie at the University of St Andrews, on a project which is collaborative with Stephen Goodwin at the University of Oxford. The aim is to adopt a multidisciplinary approach to examine the evolution of the fruitless gene in Drosophila. Studies will include sequencing, population genetics and selection analysis, genetic manipulation and behavioural analysis, and expression analysis. The ideal candidate will be an enthusiastic evolutionary or behavioural geneticist with an interest in the genetics of sexual behaviour and/or speciation. A PhD is essential and a work permit will be required for non-European citizens.

The work will be based at the Centre for Biological Diversity at the University of St Andrews, Scotland and will involve visits to collaborators (especially but not only at Oxford) and potential field-work.

This post is for 3 years starting as soon as possible.

Informal enquires to Professor Mike Ritchie email: mgr@st-andrews.ac.uk, but further details available at the University vacancies website

PLEASE NOTE that formal applications cannot be made to Mike, but must be submitted via the University online e-recruitment system at https://-www.vacancies.st-andrews.ac.uk/welcome.aspx (vacancy ML4136).

Some websites: Further details: https://-www.vacancies.st-andrews.ac.uk/welcome.aspx (vacancy ML4136)

MGR Lab: http://biology.st-andrews.ac.uk/-ritchielab/ MGR Uni: http://www.st-andrews.ac.uk/-

profile/mgr CBD @ St A: http://biodiversity.st-andrews.ac.uk/ SG Lab: http://www.dpag.ox.ac.uk/-academic_staff/stephen_goodwin Closing Date: 17 October 2012

Please quote reference no: ML4136

Mike Ritchie Centre for Biological Diversity, School of Biology, University of St Andrews, Fife. Scotland KY16 9TH UK

Phone: 0 (44 outside UK) 1334 463495 Some websites: Lab: http://biology.st-andrews.ac.uk/-ritchielab/ Uni: http://www.st-andrews.ac.uk/-profile/mgr Google: http://scholar.google.co.uk/-citations?user=JSkvwMsAAAAJ&hl CBD: http:/-/biodiversity.st-andrews.ac.uk/ Michael Ritchie <mgr@st-andrews.ac.uk>

UToronto EcolEvolutionaryBiology

Postdoctoral Fellowship in Ecology and Evolutionary Biology at the University of Toronto

The Department of Ecology and Evolutionary Biology at the University of Toronto invites applications for Departmental Postdoctoral Fellowships in the areas of Ecology and Evolutionary Biology, broadly deï. The position may continue for two years, subject to review after one year, and can begin as early as July 1, 2013. The salary starts at $40,000 Canadian per year, with research expenses covered by the Post-Doctoral Advisor.

The Fellow will be a fully participating member in the Department. Candidates must identify and communicate with a potential advisor (or advisors) in advance of the application process. All full-time faculty members at the St. George (downtown) campus of the University of Toronto are eligible to serve as advisors (see http://www.eeb.utoronto.ca/about-us/-employment/postdocs/2013eebpostdoc.htm for a complete list of potential supervisors). Opportunities for teaching in an upper level course may be available, if the candidate wishes to teach.

To apply, applicants should ïcontact and obtain the agreement of a faculty advisor (or co-advisors). Afterwards, applicants should submit a cover letter clearly indicating the proposed faculty advisor(s), a curriculum vitae, copies of 2 publications, and a short (1-3 pages) description of past research accomplishments and future research plans. Applicants should include names and e-mail addresses of two potential referees. Applicants should also indicate the date they will be available to begin the position. All application materials must be submitted as PDF's in a single email to: Elizabeth Rentzelos (chairsec.eeb@utoronto.ca). Review of applications will begin on November 12, 2012.

The University of Toronto is a leading academic institution in Canada with over 60 faculty members specializing in ecology and evolution. Strong links exist between the Department of Ecology and Evolutionary Biology and the Royal Ontario Museum, the Centre for Global Change, the Centre for Environment, and the Faculty of Forestry. The University owns a nearby ïstation dedicated to ecological research (the KofiScientiiReserve, www.ksr.utoronto.ca) The department also has a partnership with the Ontario Ministry of Natural Resources that helps provide access to infrastructure, including lab facilities in Algonquin Provincial Park (www.harkness.ca) funding, and long-term data sets. Genomic analyses are supported by the Centre for the Analysis of Genome Evolution and Function (www.cagef.utoronto.ca).

Full details are available at http://goo.gl/-naW9D and http://www.eeb.utoronto.ca/about-us/employment/postdocs/2013eebpostdoc.htm benjamin.gilbert@utoronto.ca

UZurich PhyloSystematics

Post-doctoral position in macro-evolution and phylogenetic systematics, available from 1 January 2013. This position is part of a large existing project, in which we explore the patterns of radiation in the Angiosperms. We are linking plant functional traits to climate change, to shifts in the phylogenetic rates, and "groundproofing" the patterns against the fossil record. The team includes a palaeobotanist (Yaowu Xing), who has compiled the largest existing database of Angiosperm fossils from the Cenozoic. The plant functional data is being assembled by a PhD student, Renske Onstein. She has already compiled substantial datasets on various families and orders. What we need now is a phylogeneticist, who will assemble the trees over which the rate shifts, climate shifts, and plant trait shifts are modelled. This involves downloading datasets from Genbank, building the trees, and dating them, then calculating rate shifts. The successful candidate will have experience using the relevant softwares (MEDUSA, RaXML, Mr-

Bayes, BEAST), and experience with R analyses.

Funding is definite for a year, but might be extended for another two years.

If you are interested, could you send me (Peter Linder: peter.linder@systbot.uzh.ch)

a) A letter detailing why this interests you

b) CV

c) Two possible referees.

Peter Linder <peter.linder@systbot.uzh.ch>

UppsalaU 2 FlycatcherSpeciationGenomics

Flycatcher speciation genomics

2 postdoc positions at the Evolutionary Biology Centre, Uppsala University in the group of Prof Hans Ellegren (see end of message for web page)

Each position is for two years with the possibility of extension for two more years

Advances in large-scale genomics open new opportunities in speciation research. It allows us to address questions such as the genes underlying the process of speciation, the character of genomic divergence during speciation, and speciation-with-gene-flow. Flycatchers of the genus Ficedula offer an excellent model system for studies of these and related questions (see e.g. Nature 387:589-592, 411:45-50, Science 318:95-97). We have recently sequenced and de novo assembled the flycatcher genome (at 85x coverage and with a scaffold N50 of 7.3 Mb) and performed genome-wide re-sequencing of multiple individuals (each at 5x coverage) of the two closely related species, collared flycatcher and pied flycatcher (Nature, in press; doi:10.1038/nature11584). By this we have identified a number of 'divergence islands', many of which are associated with centromeres and telomeres, potentially indicating a role for meiotic drive in species divergence. We are now seeking new postdocs to join t his long-term project in which coming research will use data from whole-genome re-sequencing of multiple populations (sympatric as well as allopatric) and species, from a 50K SNP array (genotyping in pedigrees and population samples) and from the flycatcher transcriptome and methylome. Genomic parameters that will be analyzed include, for example, recombination rates, linkage disequilibrium, expression divergence, and epigenetic modification. Successful candidates will have the possibility to choose among several possible directions of research, in dialogue with the host.

The venue for these positions, the Evolutionary Biology Centre, is situated in recently-built localities in central Uppsala. The working atmosphere is international with a regular recruitment of PhD students and postdocs from abroad. The Centre constitutes an exciting arena for multidisciplinary research in evolutionary biology in a broad sense, housing some 300 scientists and graduate students, and with research programs in, for example, ecology, genetics, genomics and developmental biology. The scientific environment with numerous seminars, journal clubs and social activities offer excellent possibilities for contacts and collaborations. A graduate school in 'The Genomics of Phenotypic Diversity in Natural Populations' (http://www.ebc.uu.se/-education/postgrad/gradschool/) provides a framework for courses and other activities for PhD students. Local platforms for next-generation sequencing (http:/-/www.scilifelab.uu.se) and high-performance computational analyses (http://ww w.uppmax.uu.se) ensure immediate access to state-of-the-art technology. Uppsala University is the oldest university in Scandinavia and the city of Uppsala is a vibrant student town with beautiful and easy accessible surroundings conveniently situated close to Stockholm.

The positions, which are funded by a European Research Council Advanced Investigator Grant, are affiliated with the Department of Evolutionary Biology - an overview of the research activities in the environment can be found at our web pages (http://www.ebc.uu.se/-Research/IEG/evbiol/). Thanks to a number of competitive grants recently obtained, the environment has expanded significantly and houses 8 independent research groups and about 20 PhD students, 20 postdocs, and some bioinformaticians. A common theme is that we address key questions in evolutionary biology, like speciation, local adaptation, life history evolution, genome and molecular evolution, using genomic approaches. Study organisms include natural bird and plant populations, Neurospora, Drosophila, zebra fish, domestic animals and humans. We have tight connections with several other research programs at the Evolutionary Biology Centre.

Suitable background to these positions is a PhD geared toward speciation genetics, population genetics or bioinformatics. Experience from bioinformatic analyses of next-generation sequencing data is of merit. Competition might be fierce so Informal inquiries and applications should be sent by email to Hans.Ellegren@ebc.uu.se. Applicants must provide a

CV, a statement of research interests and the name and contact details of at least two references. The positions remain open until filled. Starting date is flexible.

Professor Hans Ellegren Department of Evolutionary Biology Evolutionary Biology Centre Uppsala University Norbyvägen 18D SE-752 36 Uppsala Sweden

LAB WEB PAGE:

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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

WorkshopsCourses

Bodega California AppliedPhylogenetics Mar2-9

UC Davis

WORKSHOP IN APPLIED PHYLOGENETICS

at Bodega Marine Laboratory, Bodega Bay, California March 2V9, 2013

Sponsored by the University of California, Davis and Bodega Marine Laboratory (additional financial support provided by the University of Rochester)

http://bodegaphylo.wikispot.org/Front_Page Introduction Phylogenetic methods have revolutionized modern systematics and become indispensable tools in evolution, ecology and comparative biology, playing an increasingly important role in analyses of biological data at levels of organization ranging from molecules to ecological communities. The estimation of phylogenetic trees is now a formalized statistical problem with general agreement on the central issues and questions. A nearly standard set of topics is now taught as part of the curriculum at many colleges and universities. On the other hand, application of phylogenetic methods to novel problems outside systematics is an area of special excitement, innovation, and controversy, and perspectives vary widely.

This Spring, for the fourteenth consecutive year, we will teach a workshop for graduate students interested in applying phylogenetic methods to diverse topics in biology. The one-week course is an intensive exploration of problems to which modern phylogenetic approaches are being applied and the most current statistical tools and approaches that are used to solve those problems. We cover a range of topics in ecology, phylogenomics, functional morphology, macroevolution, speciation, and character evolution. The course starts with recent advances in phylogenetic methodology, and then focuses on methods and tools that can be brought to bear on these "applied" issues in the context of a given phylogeny.

The course will be held at the Bodega Marine Laboratory on the Northern California coast, which has on-site housing. Our newly increased bandwidth and access to computing clusters allows us to utilize computer-

intensive approaches even in a one-week course. The course format will involve equal parts of lecture, discussion, and hands-on software training. One afternoon during the week will be left free for field trips to local natural areas.

Topics Covered * Estimating, evaluating and interpreting phylogenetic trees * Recent advances in Bayesian and Maximum-likelihood estimation of phylogeny * Estimation of species trees, gene-tree/species-tree conflicts * Divergence-time estimation from sequence data: relaxed clocks, fossil calibration * Analysis of character evolution: maximum likelihood and Bayesian approaches, ancestral-state estimation, rates of trait evolution * Analysis of morphological form, function of complex character systems * Inference of diversification rates: detecting rate shifts, testing key innovation hypotheses * Model specification issues: model selection, adequacy and uncertainty * Diagnosing MCMC performance

Instructors for the 2013 workshop * Carl Boettiger * Gideon Bradburd * Jeremy Brown * Jonathan Eisen * Rich Glor * Tracy Heath * Mark Holder * John Huelsenbeck * Luke Mahler * Brian Moore * Samantha Price * Bruce Rannala * Bob Thomson * Peter Wainwright

Prerequisites Available housing limits course enrollment to ~30 students. Preference is given to doctoral candidates who are in the early to middle stages of their thesis research, and who have completed sufficient prerequisites (through previous coursework or research experience) to provide some familiarity with phylogenetic methods. Unfortunately, because of limits on class size, postdocs and faculty are discouraged from applying.

Admission and Fees Students will be admitted based on academic qualifications and appropriateness of research interests. The course fee is $650. This includes room and board at BML for duration of the course (arriving March 2, leaving March 9) and transportation from Davis to

Application Deadline Applications are due by November 16, 2012. Please send a completed application form and one letter of recommendation from your major advisor. Applications should be sent via email as PDFs to gbradburd@ucdavis.edu. Students will be notified via e-mail by December 1, 2013 of acceptance.

Application Forms and Information Visit the Bodega website to for additional information and to download an application form: http://-bodegaphylo.wikispot.org/2013_Workshop Send all application materials to:

Gideon Bradburd Department of Evolution and Ecology 5343 Storer Hall University of California Davis Davis, CA 95616 email: gbradburd@ucdavis.edu

“Brian R. Moore” <brianmoore@ucdavis.edu>

CzechRepublic MolEvol Jan21-Feb1

Workshop on Genomics: 6-19, January 2013

Workshop on Molecular Evolution: 21 January - 1 February, 2013

Location: ÄeskÃ½ Krumlov, Czech Republic

Detailed information and application information at http://evomics.org . General Information: Applications are currently being accepted for two unique opportunities for studying Genomics or Molecular Evolution in the beautiful Southern Bohemian region of the Czech Republic. We will be hosting a Workshop on Genomics in ÄeskÃ½ Krumlov between the dates of 6-19 January, 2013 and will once again be hosting the Workshop on Molecular Evolution immediately after the Genomics Workshop between the dates of 21 January - 1 February, 2013. Both programs offer exceptional hands-on and lecture based training from leading scientists from around the world.

Specific topics to be covered for each Workshop are below or can be reviewed at http://evomics.org . ÄeskÃ½ Krumlov offers exceptional hospitality and has proven to be an excellent location for hosting similar Workshops over the previous five years. We look forward to returning to ÄeskÃ½ Krumlov in 2013 and also to meeting and working with many of you in the New Year!

Please view information at http://evomics.org for details about the schedules and other relevant information. We are currently accepting applications through 15 November, 2012. Please forward this to anyone that you think might be interested in these unique opportunities.

Workshop on Genomics - Specific Topics to be Covered - Sequencing technologies - Genomics study design - Manipulation of sequence data using the command-line and quality assessment and control techniques - Analyzing genomic data in the “cloud” using Amazon Web Services (AWS) - The use of R in genomic analysis - Assembly and alignment: basic analyses used for de novo and re- sequencing studies - The use of next-generation sequence data to study non-model organisms - RAD (Restriction site Associated DNA) sequence analysis -

Variant detection - Metagenomic analysis - Transcriptome quantification and mapping for expression and gene structure elucidation - Evolutionary genomics - Population genomics

Workshop on Molecular Evolution - Specific Topics to be Covered - Detection of orthology - Multiple sequence alignment - The use of maximum likelihood in phylogenetics - Phylogenetic model selection - Detection of Selection - Bayesian inference in phylogenetics - Phylogenetic signal - Coalescent theory - Genome Evolution

"Handley, Scott" <shandley@mrce.wustl.edu>

Erice Italy Phylogenetics Mar10-17

Dear Colleagues,

this is the SECOND ANNOUNCEMENT for the First Erice's EMBO Practical Course on Postgenomic phylogenetics (March 10 to 17 2013). The course is founded by EMBO and will be held at the Ettore Majorana Foundation and Centre for Scientific Culture, which is based in the ancient, and astonishingly beautiful village of Erice (Sicily - Italy).

Deadline for receiving applications is: 1st November 2012.

The course has been developed over the past number of years and it consists of lectures, practical sessions and seminars on a diversity of issues in the area of phylogenetics, with a focus on how we deal with data in an era of thousands of genomes.

The course will provide a complete introduction to molecular phylogenetics, from multiple sequence alignment to phylogenomic analyses based on complete genomes. In addition, it will cover the use and analyses of Next Generation Sequencing Data in evolutionary biology, the use of network-based approaches in genomics, and the integration of genomic and other data (mostly palaeontological data) within the newly emerging framework of "Molecular Palaeobiology".

The course is open to everyone but it is explicitly aimed at early stage researchers (PhD students and young postdoctoral researcher) with an interest in phylogenetics and the need to develop their skills into modern phylogenetics and the realm of genome-scale data analyses. Note that placements on the course will not be allocated on a first come first served base. All applications will be reviewed and precedence will be given to applicants clearly illustrating how the course will help their career development.

To apply please visit the course website: http://-phylocourse.org/, and email us (1) a short CV (two pages max) and (2) a letter of intent (one page max) explaining why you would like to participate to our practical course. Please send the application material to the following address: Erice.EMBO2013@gmail.com.

Travel funds are available (see website for details) but you must meet some special circumstances.

Fees: A fee will be applied to all participants. This will cover accommodation, lectures, meals and coffee breaks.

Fees (in Euro) are as follow: Students: 250; Postdoctoral Researchers: 300; Principal Investigators: 400; Industry participants: 1000.

Course teachers: Dr Davide Pisani (University of Bristol, UK); Prof. James McInerney (The National University of Ireland, Maynooth, Ireland - Currently at Harvard School of Public Health); Dr Mary O'Connell (Dublin City University, Ireland - Currently at Harvard University); Dr Mark Wilkinson (The Natural History Museum, London); Dr Céline Scornavacca (Montpellier University - France) Prof. Michel C. Milinkovitch (University of Geneve - Switzerland) Dr Julia Day (University College London, UK); Dr Chris Creevey (Teagasc Research Centre, Ireland); Dr. Omar Rota-Stabelli (Foundation Edmund Mach, Italy).

Dr Davide Pisani Reader of Phylogenomics School of Biological Sciences and School of Earth Sciences University of Bristol Woodland Road Bristol, BS8 1UG Email: davide.pisani@bristol.ac.uk Phone: +44-(0)117 928 7490

davide.pisani@bristol.ac.uk

Hinxton UK ComputationalMolEvol 2013

Dear Community,

The 5th summer school on Computational Molecular Evolution organized by Aidan Budd, Nick Goldman, Ziheng Yang and Alexis Stamatakis will take place again in 2013 and we will be back as a Wellcome Trust Advanced Course at the EBI, Hinxton, UK.

Confirmed instructors include:

Maria Anisimova (ETH Zurich, Switzerland) Aglaia (Cilia) Antoniou (Institute for Marine Biology and Genetics, Hellenic Centre for Marine Research, Greece) Martin Embley (University of Newcastle, UK) Adrian Friday (University of Cambridge, UK) Olivier Gascuel (LIRMM-CNRS, Montpellier, France) Tracy Heath (University of California, Berkeley, USA) John Huelsenbeck (University of California, Berkeley, USA) Fernando Izquierdo-Carrasco (Heidelberg Institute for Theoretical Studies, Germany) Carolin Kosiol (University of Veterinary Medicine, Vienna, Austria) Adam Leache (Department of Biology & Burke Museum, University of Washington, USA) Brian Moore (UC Davis, USA) Sarah Parks (European Bioinformatics Institute, Hinxton, UK) Pavlos Pavlidis (Heidelberg Institute for Theoretical Studies, Germany) Bruce Rannala (Genome Center and Department of Evolution and Ecology, University of California, USA) Ben Redelings (National Evolutionary Synthesis Center, North Carolina, USA) Antonis Rokas (Vanderbilt University, USA) Stephen Smith (University of Michigan, Ann Arbor, USA) Jeff Thorne (Genetics and Statistics Department, North Carolina State University, USA)

The application deadline is 16 November 2012.

For details on the application procedure and all other related information please go to:

http://tinyurl.com/8btc6e5 There is also some history at http://abacus.gene.ucl.ac.uk/CoME/ Looking forward to seeing you in Hinxton,

Nick Goldman

goldman@ebi.ac.uk

Lisbon Evolution Mar11-15

1st CALL FOR STUDENTS: 1st International Winter School on Evolution

March 11th - 15th, 2013 | Ciência Viva Knowledge Pavilion, Lisbon, Portugal

Website: http://evolutionschool.fc.ul.pt We are happy to inform you that registration is now open for the 1st International Winter School on Evolution. Courses are open to international Master, PhD and Post-doctoral students in the exact, life, human and sociocultural evolutionary sciences.

About the courses

>From Monday to Friday, parallel sessions are organized whereby visiting staff provide a 10-hour course (2 hours a day) on critical aspects of biological and sociocultural evolution. The courses are centered around the following modules.

Module 1: Macroevoluton and the Major Evolutionary Transitions Courses are taught by: Bruce Lieberman, Folmer Bokma, Eörs Szathmáry.

Module 2: Language Evolution Courses are taught by William Croft, Mónica Tamariz, Daniel Dor.

Module 3: Symbiogenesis, Lateral Gene Transfer and Virolution Courses are taught by Douglas Zook, William Martin, Michael Arnold.

All courses are taught at a level accessible to Master, PhD and post-doctoral students in the exact, life, human and sociocultural evolutionary sciences. Students of evolutionary biology, microbiology, paleontology, evolutionary linguistics, evolutionary anthropology, and philosophy of biology will especially benefit from these courses.

Students will be provided a mandatory reading list which will form the basis of lectures and discussions. There are neither examinations nor paper assignments.

REGISTRATION FEE

350 euro for the whole week, regardless the number of courses you choose.

HOW TO ENROLL

You can enroll for a specific module (therefore following a 30-hour course on the subject) or you may choose three courses of your specific interest. Places are limited, we therefore advise you to enroll as quickly as possible.

About the Winter School

The School is organized by the Applied Evolutionary Epistemology Lab of the Centre for Philosophy of Science of the University of Lisbon, in collaboration with Ciência Viva and with the support of the John Templeton Foundation.

DOWNLOAD OUR POSTER

http://evolutionschool.fc.ul.pt/winter/docs/winter.pdf SUBSCRIBE TO THE WINTER SCHOOL MAILINGLIST

http://eepurl.com/n2ELH Websites

http://evolutionschool.fc.ul.pt, http://appeel.fc.ul.pt

AppEEL Announcements <appeelannouncements@fc.ul.pt>

Lyon France Biodiversity Jun3-14

Ioan Negrutiu <Ioan.Negrutiu@ens-lyon.fr>

ENS de Lyon, Biological resources and biodiversity, June 3-14, 2013. Register now.

*/A course across disciplinary boundaries: ecology, evolution, economy, legal sciences and natural resources security /*that we run as a 2 weeks course system, including seminars, workshops and students' personal work (worth 6 credits). In addition, a 2-day field trip is programmed over the central week-end.**

The interdisciplinarity of the course makes it ideal for student from various backgrounds. Evolution / adaptation processes are central to the course and are covered from molecular to ecosystem levels in the spirit of "eco-evo-devo".

The registered students must have a master- or PhD level.

The Financial aspect : free course ; out-coming students need tosort out housing reservations and costs.

Registration deadline: November 10, 2012

Logistic and academic infos through the website (see below) and by mail to ioan.negrutiu@ens-lyon.fr.

Course description: This advanced course provides a state-of-the-art knowledge on the conceptual and methodological advances in the field of */bio-resources/**. /Biodiversity/*//is considered as a dynamic driver and marker of bio-resource systems in a highly anthropized biosphere. ... In order to understand how evolution is producing such an astonishing adaptive diversity through */co-evolutionary/* processes, a variety of tools presently available are being used to evaluate the underlying functions and to decipher the mechanisms at work at various scales of organization, such as */molecular, organismic, population and ecosystemic/*. In parallel, the issue of agriculture is discussed,.... This makes it possible to evaluate the environmental costs of human activities and integrate them in economic and political decisions. In such a new frame of thinking, a series of resources might acquire increased monetary and social values, i.e. become */public goods/*. ...(reed more on

http://biologie.ens-lyon.fr/masterbiosciences/-presentation-des-ue-1/presentation-des-ue/-presentation-des-ue/presentation-des-ue/presentation-des-ue/les-ue-europe/biodiversity/

NHM London YoungSystematists Nov29 Deadline

Deadline Friday!

14th YOUNG SYSTEMATISTS FORUM

Thursday, 29 November 2012, 9 am

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

The annual Young Systematists 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 infront of their peers within a supportive environment. Supervisors and otherestablished 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 isFREE. Send applications by e-mail to (YSF.SystematicsAssociation@gmail.com), supplying your name, contact address and stating whether or not you wish togive 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 Friday 26 October 2012. 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 further information about the meeting, including abstracts, by e-mail one week in advance. This information will also be displayed on the Systematics Association website (www.systass.org).

Ellinor Michel <e.michel@nhm.ac.uk>

Salzburg PopulationGenomics Nov25-30

Dear colleagues,

we are pleased to announce the new Synbreed Winter School 2012:

"Population Genomics in Crops and Farm Animals"

November 25th - 30th, 2012 in Salzburg, Austria.

You will find the course programme and all the relevant other details on the Synbreed website: http://-/www.synbreed.tum.de/index.php?id Registration is possible as of this moment. Please use the registration form to be found at the Synbreed website.

Registration deadline is October 15th, 2012. The number of participants is limited.

Please be so kind as to pass this information on to colleagues who might be interested in participating.

Kind regards,

Michael Auwers

Wolf Saul

Henner Simianer

Henner Simianer

Professor, Animal Breeding and Genetics Department of Animal Sciences Georg-August-University Goettingen Albrecht-Thaer-Weg 3, 37075 Goettingen Tel.: +49-551-395604, Fax: +49-551-395587 Email: hsimian@gwdg.de

http://www.uni-goettingen.de/tierzucht "Simianer, Henner" <hsimian@gwdg.de>

SanDiego PopulationConservationGenomics Jan12-16

Population and Conservation Genomics Workshop Plant and Animal Genome XXI International Conference http://www.intlpag.org/ January 12-16, 2013 Town and Country Convention Centre, San Diego, California

Population and Conservation Genomics will be resumed at the Plant and Animal Genome XXI International conference. The workshop is scheduled on Saturday, January 12, 2013. You are invited to attend this Workshop and submit abstracts for oral presentations on any population and conservation genomics aspect of both plants and animals. The topics may include: population genomic diversity and structure; molecular evolution; adaptive molecular genetic variation; selection signatures and local adaptation; candidate-gene and genome-wide association studies; application of genomics in conservation and management of genetic resources; genomic effects of domestication, management practices, fragmentation, bottlenecks, climate and environment change, and transgenic deployment; and gene conservation; etc.

The workshop has a slot for six invited speakers. A few invited presentations will be selected from the submitted abstracts. Each of the six speakers will receive a $100 discount in their registration fees. Please send your abstract of no more than 250 words by e-mail to Om Rajora (Om.Rajora@unb.ca) as an attached Word file no later than October 17, 2012. You will be notified by October 22nd whether your abstract has been selected for an oral presentation. Thereafter, the selected presenters will submit their abstract to the PAG website and register to receive a discount of $100. Authors whose abstracts are not selected for oral presentations are highly encouraged to present a poster at the conference.

Inquiries and Abstract Submission

For information and questions regarding the Population and Conservation Genomics workshop, please contact Om Rajora at the following coordinates.

Dr. Om P. Rajora, Faculty of Forestry and Environmental Management, University of New Brunswick, Fredericton, NB E3B 6C2, Canada. Tel: (506) 458-7477 or (506) 458-7475 Fax: (506) 453-3538

Om Rajora <orajora@unb.ca>

Smithsonian WildlifeConservation Jun1-7

Graduate and Professional Course Non-Invasive Genetic Techniques in Wildlife Conservation June 1-7, 2013 Smithsonian-Mason School of Conservation At

the Smithsonian Conservation Biology Institute, Front Royal, VA, USA Visit http://SMconservation.gmu.edu or contact SCBItraining@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 with 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 a directed research project, 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 Eggert. While most instruction takes place in Front Royal at the newly opened facilities of the Smithsonian-Mason School of Conservation, the course also includes laboratory work at the National Zoo's new state-of-the-art genetics lab in Washington, DC.

The total course fee, which includes instruction and course materials, food, shared lodging, and transport to/from Washington-Dulles International Airport (IAD) is $2,142. All other travel costs and incidental expenses are the participant's responsibility. Participants earn Continuing Education Units; graduate course credit (2) is available for qualified applicants through George Mason University at an additional fee. Participants should have previously completed a college-level genetics and basic ecology/evolution course. For first consideration, apply before February 23, 2013. This course has been full during all previous offerings, so you are encouraged to apply early.

Additional Upcoming Courses:

For more information on each of these, see: http://-SMconservation.gmu.edu * Statistics for Ecology and Conservation Biology (March 4-15, 2013)

* Estimating Animal Abundance and Occupancy (April 1-12, 2013)

* Species Monitoring & Conservation: Terrestrial Mammals (April 29-May 10, 2013)

* Species Monitoring & Conservation: Reptiles (May 13-24, 2013)

* Adaptive Management for Conservation Success (June 10-21, 2013)

"Kolowski, Joseph" <kolowskij@si.edu>

Tucson PlantBreeding Jan7-9

Oct 15 is the deadline for early-bird registration (i.e., reduced rates!)

The BIO5 Institute at the University of Arizona is pleased to announce the 2013 Tucson Winter Institute in Plant Breeding, to be held the week of January 7th-11th, 2013. The goal of the Institute is to offer state-of-the-art instruction and training in modern tools in plant breeding, be they statistical, molecular, or computational. This year's Institute is comprised of the following four Modules:

Monday - Wednesday (12:00pm) January 7th - 9th, 2013 Module 1: Introduction to Plant Quantitative Genetics (Walsh/Gore/Gutierrez) Module 2: Introduction to Plant Genomics (Wing)

Wednesday (1:30pm) - Friday January 9th - 11th, 2013 Module 3: Advanced statistical plant breeding (Walsh/Gore/Gutierrez) Module 4: Bioinformatics for breeders (Goff/Ragot)

Additional details, including a more detailed description of each module, can be found at www.PlantBreedingInstitute.bio5.org "Walsh, James Bruce - (jbwalsh)" <jbwalsh@email.arizona.edu>

UGroningen Netherlands EvolutionaryDynamics Nov11-15

Dear EvolDir members,

this is the 2nd announcement of our upcoming course on Evolutionary Dynamics. The Research School Ecology & Evolution of the Centre for Ecological and Evolutionary Studies (U. Groningen, Netherlands) organizes a PhD level course on Evolutionary Dynamics at the "Assumburg" Castle in Heemskerk, the Netherlands. The course is also accessible to advanced Master level students.

Aim of the course Obtain a basic understanding of different theories for slow and fast evolutionary dynamics. Become able to independently increase this understanding further. Be able to apply the tools presented to simple population dynamical models, to turn them into evolutionary dynamical systems.

Contents & Structure Evolution can be fast or very slow. Comparisons of related species often reveal evidence that evolution proceeds gradually or in discrete jumps, or that species differences appear to be caused by drift. In recent years, the new framework of Adaptive Dynamics (AD) has joined the ranks of population genetics, quantitative genetics, evolutionary game theory, comparative analysis and optimization theory as a method to study adaptive evolution. Methods of AD apply to slow evolutionary processes, but they have counterparts in many of the other types of evolutionary analysis for fast evolutionary processes, where they all rely on a selection gradient and a genetic variance-covariance matrix. We want to stress the similarities of several approaches by presenting their basics in a single course. Lectures cover both the basics of quantitative genetics, theories of selection response, adaptive dynamics, and comparative analysis. The lectures primarily focus on concepts, and use mathematics and simulation as a tool. Examples of how theories have been successfully applied to real biological systems are presented in every lecture. For example, topics such as specialization and adaptive speciation will be discussed. The course will consist of lectures, computer exercise classes, and literature discussion groups.

Our guest lecturer during the course will be Luis-Miguel Chevin [https://sites.google.com/site/-luismiguelchevin/], who will lecture on his own research and who will be available for discussions.

The course will be held from 12 - 15 November 2011 at the "Assumburg" Castle in Heemskerk, the Netherlands. It is advised to bring your own laptop.

More information and instructions for registration can be found at: www.rug.nl/fmns-research/-rsee/phdcourses/evolutionarydynamics vandoore@biologie.ens.fr

UTexas Austin PhylogenomicsMethods Feb16-17

Dear Colleagues,

We are pleased to announce the Symposium/Workshop on New Methods for Phylogenomics and Metagenomics. It will be held on February 16 and 17, 2013, at the University of Texas at Austin.

The symposium (February 16) will feature talks on new methods for - estimating very large multiple sequence alignments, - estimating very large phylogenetic trees, - estimating species trees and networks in the presence of gene tree incongruence due to horizontal gene transfer, gene duplication and loss, or incomplete lineage sorting, - estimating or correcting estimated gene trees given species trees in the presence of gene duplication and loss scenarios, and - metagenomic analysis, including estimating phylogenies and multiple sequence alignments from fragmentary sequences and taxon identification of fragmentary sequences.

The current list of speakers at the symposium includes: Dan Brown (Waterloo), Mark Holder (Kansas), Curtis Huttenhower (Harvard, tentative), Manolis Kellis (MIT, tentative), Bret Larget(Wisconsin, tentative), Jim Leebens-Mack (Georgia), Luay Nakhleh (Rice), Eric Nawrocki (Janelia Farm, HHMI), Ben Redelings (NESCENT), Sebastien Roch (Wisconsin), and Tandy Warnow(Texas).

The workshop (February 17) will provide tutorials in the use of new methods. Specific software that will be taught includes: - SATe, co-estimation of multiple sequence alignments and phylogenetic trees, taught by Mark Holder (Kansas) and Siavash Mirarab (Texas), - SEPP, "SATe-enabled phylogenetic placement" (software for multiple sequence alignment and phylogenetic analysis of fragmentary sequences), taught by Siavash Mirarab (Texas), - DACTAL, "divide-and-conquer trees (almost) without alignments", - SuiteMSA, alignment visualization and analysis software, taught by Etsuko Moriyama (Nebraska), - Phylonet, taught by Yun Yu (Rice), - BAli-Phy, Bayesian co-estimation of alignments and trees, taught by Ben Redelings (Duke), - Infernal, software by Eric Nawrocki and Sean Eddy (Janelia Farm) for annotating and estimating alignments on 16S rRNA sequences, taught by Eric Nawrocki, - TreeFix and TreeFix-DTL, software by

Mukul Bansal and Manolis Kellis (MIT) for "correcting" gene trees given a species tree, taking gene duplication and loss into account, taught by Mukul Bansal, and - MetaPhlAn, software for analysis of metagenomic shotgun sequencing data, taught by Eric Franzosa (Harvard).

Registration is required, but participation in both the symposium and workshop is free. Travel awards for up to 50 workshop participants are available; please send an inquiry to Laurie Alvarez (lauriea@austin.utexas.edu) by November 15, 2012, if you would like to apply for an award.

For the most updated information, please check: http://www.cs.utexas.edu/users/tandy/utexas-feb16-17.html Tandy Warnow, The University of Texas at Austin Michael Braun, The Smithsonian Institution Mark Holder, The University of Kansas Jim Leebens-Mack, The University of Georgia Randy Linder, The University of Texas at Austin Etsuko Moriyama, The University of Nebraska - Lincoln

emoriyama2@unl.edu emoriyama2@unl.edu

Instructions

Instructions: To be added to the EvolDir mailing list please send an email message to Golding@McMaster.CA. At this time provide a binary six letter code that determines which messages will be mailed to you. These are listed in the same order as presented here — Conferences; Graduate Student Positions; Jobs; Other; Post-doctoral positions; WorkshopsCourses. For example to receive the listings that concern conferences and post-doctoral positions this would be 100010. Messages are categorized on the basis of their subject headings. If this subject heading is not successfully parsed, the message will be sent to me at Golding@McMaster.CA. In addition, if it originates from 'blackballed' addresses it will be sent to me at Golding@McMaster.CA. These messages will only be read and dealt with when I have time. The code 000000 has all channels turned off and hence gets only a once monthly notifcation of the availability of a monthly review pdf file.

To be removed from the EvolDir mailing list please send an email message to Golding@McMaster.CA. Note that 'on vacation', etc, style messages are automatically filtered and should not be transmitted to the list (I hope), but should you wish to avoid the e-mail's your code can be temporarily changed to 000000.

To send messages to the EvolDir direct them to the email evoldir@evol.biology.McMaster.CA. Do not include encoded attachments and do not send it as Word files, as HTML files, as LaTeX files, Excel files, etc. ... plain old ASCII will work great and can be read by everyone. Add a subject header that contains the correct category "Conference:, Graduate position:, Job:, Other:, Postdoc:, Workshop:" and then the message stands a better chance of being correctly parsed. Note that the colon is mandatory.

The message will be stored until the middle of the night (local time). At a predetermined time, the collected messages will be captured and then processed by programs and filters. If the message is caught by one of the filters (e.g. a subject header is not correctly formated) the message will be send to me at Golding@McMaster.CA and processed later. In either case, please do not expect an instant response.

Afterword

This program is an attempt to automatically process a broad variety of e-mail messages. Most preformating is collapsed to save space. At the current time, many features may be incorrectly handled and some email messages may be positively mauled. Although this is being produced by LaTeX do not try to embed LaTeX or TeX in your message (or other formats) since my program will strip these from the message.