E v o l D i r

December 1, 2011

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

Foreword

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

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

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

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Conferences

ArizonaStateU Phylomedicine Mar23-24

The Center for Evolutionary Medicine and Informatics at Arizona State University is pleased to host a SMBE Satellite Symposium on Phylomedicine from March 23-24, 2012 in Tempe, Arizona, USA. This symposium is sponsored by the Society for Molecular Biology & Evolution (SMBE), who is providing financial support to bring together scientific leaders at the intersection of Molecular Evolution and Genomic Medicine (Phylomedicine). This will be highly interactive symposium, with the attendance capped at 100 participants in order to allow enhanced discussion and information exchange.

Registration is now open (www.smbe.org/phylomed/). Please apply as soon as possible.

Travel grants are available for students, postdocs, and early career scientists (Dec 15, 2011 deadline; http://-www.smbe.org/phylomed/grants.php)

Sudhir Kumar (s.kumar@asu.edu)

s.kumar@asu.edu

ArizonaStateU Phylomedicine Mar23-24 Registration

The Center for Evolutionary Medicine and Informatics at Arizona State University is pleased to host a SMBE Satellite Symposium on Phylomedicine from March 23-24, 2012 in Tempe, Arizona, USA. This symposium is sponsored by the Society for Molecular Biology & Evolution (SMBE), who is providing financial support to bring together scientific leaders at the intersection of Molecular Evolution and Genomic Medicine (Phylomedicine). This will be highly interactive symposium, with the attendance capped at 100 participants in order to allow enhanced discussion and information exchange.

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Sudhir Kumar (s.kumar@asu.edu)

ArizonaStateU Phylomedicine Mar23-24 TravelGrants

http://www.smbe.org/phylomed/ SMBE Satellite Symposium on Phylomedicine March 23-24, 2012 Arizona State University Tempe, Arizona, USA

Applications are invited for multiple Travel Grants Eligibility: Students, Postdocs, and early career scientists Support: $500 for US and $1000 for international selectees Apply by E-mail to phylomedicine@asu.edu Attach PDF/DOC/DOCX files containing: (1) 200 word abstract PLUS title. (2) Your full CV, including the name of your mentor (if appropriate) (3) Filled out Registration form (see http://www.smbe.org/phylomed/-registration.php) Deadline: December 15th, 2011. Decision: Early January, 2012 Each travel grant awardee will be required to present a poster on March 23, 2012.

Sudhir Kumar Center for Evolutionary Medicine & Informatics (CEMI)

s.kumar@asu.edu

Denver ProteinEvolution Dec5-7

Meeting on Mechanisms of Protein Evolution

December 5-7, 2011

Denver, CO, USA

http://www.evolutionarygenomics.com/-MMPE_Denver/ The meeting will focus on explicit consideration of biophysical and systems biology principles to generate a mechanistic understanding of selective pressures and the impacts of neutral evolutionary processes. Topics will include interaction with phylogenetics, adaptation, coevolution, convergence, neutral processes, and other topics of concern to the study of molecular biology and evolution.

This will be a small meeting, with plenty of opportunity for interaction. Talks by students as well as more senior investigators are encouraged.

Organized by David Pollock (University of Colorado School of Medicine), David Liberles (University of Wyoming), and Rachel Mueller (Colorado State University)

The meeting is timed to also enable attendance at Rocky 2011, the Rocky Mountain Bioinformatics Conference, in Snowmass/Aspen starting on December 8, for those interested.

"David A. Liberles" <Liberles@uwyo.edu>

Edinburgh PopulationGenetics Apr10-12

The 56th annual meeting of the Ecological Genetics Group will be held 10th-12th April 2012 in Edinburgh. All scientists working in population genetics and evolutionary ecology are welcome to attend. Talks and posters are welcomed from scientists of all stages, from students giving their first presentation, to senior academics presenting completed work. The 2011 EGG meeting was attended by participants from twelve countries.

This year's meeting is organised by Dr Richard Ennos (University of Edinburgh) . It will be held at the Edinburgh Conference Centre on the campus of Heriot-Watt University. The Ecological Genetics Group meeting is sponsored by the Genetics Society and the British Ecological Society.

For the meeting we have two world class plenary speakers, Professor Paul Brakefield from Cambridge University, and Professor John Willis from Duke University. Further details are available on the conference web site:

http://www.ecologicalgeneticsgroup.org.uk/eco/ In keeping with EGG tradition a field trip will be organised on the afternoon of April 11th, and a ceilidh will be held after the conference dinner.

Further details:

Richard Ennos Institute of Evolutionary Biology University of Edinburgh Ashworth Building King's Buildings Mayfield Rd. Edinburgh EH9 3JT

Tel. 0131 650 5411 email: rennos@ed.ac.uk

– The University of Edinburgh is a charitable body, registered in Scotland, with registration number SC005336.

Richard Ennos <rennos@ed.ac.uk>

Irvine InLightOfEvolution Jan20-21

January 20-21, 2012 In the Light of Evolution VI: Brain and Behavior Organizers: Georg F. Striedter, John C. Avise and Francisco J. Ayala Beckman Center of the National Academies, Irvine, CA

Darwin never wrote much about the brain, but Darwin's nemesis, Richard Owen, tried in 1861 to protect humans from Darwin's threatening ideas by arguing that human brains differ fundamentally from those of other apes. This argument provoked a spirited attack by Darwin's "bulldog," T. H. Huxley. Darwin did not comment publicly on this controversy, but for the second edition of his Descent of Man, Darwin asked Huxley to write an essay "on the resemblances and differences in the structure and the development of the brain in man and apes." This essay was a forceful attack on Owen's argument and showed convincingly that human brains are like fairly typical ape brains, although larger. Thus the Darwinians began to contemplate evolving brains. This colloquium will survey what has been learned about brain evolution in the 150 years since the Owen-Huxley debate, bringing together leading scientists whose work illuminates the twin questions of how and why complex nervous systems evolved.

http://www.nasonline.org/programs/sackler-colloquia/upcoming-colloquia/evolution-vi.html
$300 EARLY REGISTRATION BY DECEMBER 15, 2011 Attendance at the Colloquium is limited to 230 registered individuals. Registrations will be accepted only when the registration fee is included and in the order in which they are received. The EARLY registration fee ($300) includes the cost of meals, reception dinner, and banquet.

$150 STUDENT / POST DOC REGISTRATION BY DECEMBER 15, 2011 TRAVEL/HOTEL AWARDS AVAILABLE Applicants must register online and payment must be received to be eligible on a first-come basis for travel award. Hotel Award covers one night in the conference hotel to be billed directly to NAS. Applicants must live more than 50 miles from Irvine to be eligible for the hotel award. Recipients will be paired, upon request, with another recipient to cover two nights. Travel Award includes reimbursement of travel expenses (air, ground, mileage, parking) up to the maximum amount. Applicants in California, Nevada, and Arizona are eligible for up to $150; applicants traveling from other areas are eligible for up to $300.

After December 15, 2011 - All Registrations are $350

Register at http://www.certain.com/system/profile/-form/index.cfm?PKformID=0x1110418aae5 For more information, contact "Marty, Susan D" <SMarty@nas.edu>.

"Francisco J. Ayala" <fjayala@uci.edu>

Marseilles 16thEvolBiology Sep18-21

It is my pleasure to announce that registration and abstract submission for the 16th Evolutionary Biology Meeting at Marseilles, September 18-21, 2012, is open. Please visit the web site of the meeting http://-/sites.univ-provence.fr/evol-cgr where you will find all relevant information.

The following subjects will be discussed:

- Evolutionary biology concepts and modelisations for biological annotation; - Biodiversity and Systematics; - Comparative genomics and post-genomics (at all taxonomic levels); - Functional phylogeny; - Environment and biological evolution; - Origin of Life and exobiology; - Non-adaptative versus adaptative evolution; - The $\ll$ minor $\gg$ phyla: their usefulness in evolutionary biology knowledge; - Convergent evolution

Looking forward to your participation.

Best wishes,

Marie-Hélène Rome

Universite EGEE <Egee@univ-provence.fr>

Montpellier MathEvolBiol Jun18-22

Mathematical and Computational Evolutionary Biology June 18-22, 2012, Hameau de l'Etoile (France) http://www.lirmm.fr/mceb2012/ The subject is evolution, which is considered at different scales, from genes to populations. The focus is on the mathematical and computational tools and concepts, which form an essential basis of evolutionary studies. The meeting will

bring together researchers originating from various disciplines: mathematics, computer science, phylogenetics and population genetics. Ten keynote speakers will introduce a field of research and discuss their own work in this field. Afternoon will be for short presentations and posters, with plenty of time for discussions, hiking and visits. The number of attendees will be limited (˜60) to favor exchanges.

The meeting will take place at Hameau de l'Etoile, in the Montpellier region (France). The dates are June 18-22, that is, just before SMBE 2012 that starts June 23 in the evening at Dublin (Ireland). Conference fees including accommodation (4 nights, 18 to 22), meals, coffee breaks, buses, etc., will range from ˜350 â¬*to*˜500â¬*dependingontheroomtype*.

Keynote speakers:

Michael Blum (CNRS - TIMC, FR). Oliver Eulenstein (Iowa State University, US). Arnaud Estoup (INRA - CBGP, FR). Vincent Moulton (University of East Anglia, UK). Rasmus Nielsen (Berkeley, US). Noah Rosenberg (University of Michigan, US). Alexandros Stamatakis (Heidelberg, DE). Mike Steel (University of Canterbury, NZ). Edward Susko (Dalhousie University, CA). Simon TavarÃ© (Cambridge University, UK).

Organizers:

Olivier Gascuel Jean-Michel Marin

See the web site for more details and pre-registration

PLEASE DIFFUSE THIS ANNOUNCEMENT. THANKS!

Gascuel Olivier <gascuel@lirmm.fr>

NHM London YoungSystematists Dec1

Reminder ' please drop us a quick email at YSF.SystematicsAssociation@gmail.com if you plan on attending. We need to know for logistics.

YSF is always a great day with top science and a good buzz. All are very welcome!

13th YOUNG SYSTEMATISTS' FORUM

Thursday, 1st December 2011, 9 am Flett Lecture Theatre, Natural History Museum, London, UK

The annual Young Systematists[1] Forum represents an exciting setting for Masters, PhD and young postdoctoral researchers to present their data, often for the first time, to a scientific audience interested in taxonomy, systematics and phylogenetics. This well-established event provides an important opportunity for budding systematists to discuss their research in front of their peers within a supportive environment. Supervisors and other established systematists are also encouraged to attend.

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

Registration is FREE. Non-participating attendees are very welcome - please register with an email to YSF.SystematicsAssociation@gmail.com supplying your name & contact address.

The deadline for submission of talks and posters has now passed.

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

Note that the YSF is collaboratively scheduled with the Molluscan Forum of the Malacological Society, (http://-/www.malacsoc.org.uk/MolluscanForum.htm), which is aimed at the same stage participants, also at the NHM the day before. Consider attending both events!

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

Ellinor Michel <e.michel@nhm.ac.uk>

Roscoff France EvolutionaryGenomics Mar31-Apr4

A Jacques Monod Conference entitled "Theoretical and empirical advances in evolutionary genomics" will take place at Roscoff (Brittany, France) from March 31 to April 4, 2012.

Jacques Monod Conferences, organized by CNRS, are known for the high scientific quality of the talks and discussions, in a relaxed atmosphere, in a beautiful site. The conference will cover topics in population genomics, evolutionary genomics, and evolutionary systems biology. 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 The organizers: Juliette de MEAUX (Muenster University, juliette.de.meaux@uni-muenster.de) and Xavier VEKEMANS (UniversitÃ© Lille 1, xavier.vekemans@univ-lille1.fr) Co-organizers: Guillaume ACHAZ, Laurent DURET, Oscar GAGGIOTTI, Nicolas GALTIER, Lluis QUINTANA-MURCI, Olivier TENAILLON, Renaud VITALIS

Invited speakers: BALDING David - London, UNITED KINGDOM Kinship, heritability and genetic effect sizes BELDADE Patricia - Leiden, THE NETHERLANDS Genetic and developmental mechanisms underlying the evolutionary diversification of adaptive traits BLUM Michael - Grenoble FRANCE Major axes of genetic differentiation in humans CARBONE Alessandra - Paris, FRANCE miRNA clusters and their functional organization in human chromosomes DURET Laurent - Villeurbanne, FRANCE Recombination, biased gene conversion and the evolution of the human genome DUTHEIL Julien - Montpellier, FRANCE One genome to infer them all: single-individual population genetics at the genome level EXCOFFIER Laurent - Bern, SWITZERLAND Effect of spatial processes on human diversity GLÃMIN Sylvain - Montpellier, FRANCE Evolution of nucleotide landscapes in flowering plants: causes and consequences GORDO Isabel - Lisbon, PORTUGAL Fitness effects of mutations in E. coli. HEYER Evelyne - Paris, FRANCE Cultural Transmission of behaviours and genetic diversity in Human KAESSMANN Henrik - Lausanne, SWITZERLAND The evolution of mammalian tissue transcriptomes LANDRY Christian - QuÃ©bec, CANADA Evolution of Protein Interactomes LASSIG Michael - Köln, Germany Evolutionary genomics of influenza A LOUDET Olivier - Versailles, FRANCE Decoding the complexity of quantitative natural variation for growth and response to the environment in Arabidopsis thaliana MAKSE Hernan - New York, USA Modeling the evolution of protein interaction networks. McLYSAGHT Aoife - Dublin, IRELAND Positionally biased gene loss after whole genome duplication NORDBORG Magnus - Vienna, AUSTRIA Genomic patterns of variation in Arabidopsis thaliana PATERSON Nick â Boston, USA Using exact ascertainment and joint spectra to learn human genetic history PETROV Dmitri - Stanford, USA Genomic studies of adaptation in Drosophila and humans QUINTANA-MURCI Lluis - Paris, FRANCE Modes of subsistence and the landscape of African genomes ROCHA Eduardo - Paris, FRANCE Population genomics of prokaryotes SCHMID Karl - Stuttgart, Germany Genomics of local adaptation in the model plant Arabidopsis thaliana SCHMITT Johanna - Providence, USA Mapping local adaptation in Arabidopsis thaliana SUNYAEV Shamil R. - Boston, USA Title to be specified TENAILLON Olivier - Paris, FRANCE The diversity of adaptive convergence in experimental bacterial populations WHEAT Christopher W. - Helsinki, FINLAND Functional genomics of dispersal and fitness variation in the wild WITTKOPP Trisha - Michigan, USA Genomic sources of regulatory variation

Xavier VEKEMANS

FRE 3268 Laboratoire de Genetique et Evolution des Populations Vegetales CNRS - UniversitÃ© Lille 1 Batiment SN2 59655 Villeneuve d'Ascq - FRANCE Tel: +33 3 2043 6753 - Fax: +33 3 2043 6979 xavier.vekemans@univ-lille1.fr http://gepv.univ-lille1.fr/ http://gepv.univ-lille1.fr/GDR1928/acc.htm

Xavier Vekemans <xavier.vekemans@univ-lille1.fr>

UCologne NasoniaEvolution Jun3-6

Dear evoldir subscribers,

I would like to announce that the 2012 International Nasonia Research Meeting will be held at the University of Cologne, Germany from June 3-6 . Nasonia is a genus consisting of 4 described species of parisitoid wasps, and has proven to be a powerful model system with which to examine a wide variety of questions related to evolutionary processes, including: speciation genetics, population genetics, sex determination, chemical ecology, symbiosis, evolution of development, and the evolution of behavioral traits. Technical advantages of this system include: sequenced genomes of 3 interfertile species, a multitude of genomic and genetic resources (such as tiling and mapping arrays, transcriptomes, molecular and morpholocial markers, etc...), robust systemic RNAi, and haplo-diploid genetics.

We invite anyone interested in learning more about this system to join us in June in Cologne. For any questions, and/or to indicate an interest in attending this meeting, please contact Jeremy Lynch (jlynch@uni-koeln.de).

Best, Jeremy

Dr. Jeremy Lynch Biowissenschaftliches Zentrum Institut für Entwicklungsbiologie Zülpicher Straße 47 b 50674 Köln Tel. +49 221 470 2618 Fax. +49 221 470 5164 http://www.uni-koeln.de/math-nat-fak/ebio/en/Research/Roth/Lynch/lynch.html jlynch@uni-koeln.de

UMichigan BiodiversityInformatics Mar18

CALL FOR NOMINATIONS

EIGHTH ANNUAL UNIVERSITY OF MICHIGAN EARLY CAREER SCIENTISTS SYMPOSIUM

BIODIVERSITY INFORMATICS

The Department of Ecology and Evolutionary Biology at the University of Michigan invites nominations of outstanding scientists early in their careers to take part in an international symposium on biodiversity informatics and its application to research in ecology and evolutionary biology. This symposium will be held in Ann Arbor, Michigan on March 18, 2012. Eight scientists and a plenary speaker will be selected to present their work. We are interested in scientists who are pursuing cutting-edge approaches to biodiversity sciences that integrate and/or synthesize informatics resources, including genomic/genetic, phylogenetic, morphological, geographic, and ecological datasets. We are especially interested in scientists who are leveraging information from natural history collections.

Early career scientists are defined as senior graduate students (who stand to receive their Ph.D. within one year), postdoctoral researchers, and first- or second-year tenure-track faculty. A colleague or advisor must provide the nomination.

A nomination consists of a brief letter of recommendation addressing the nominee[1]s scientific promise and ability to give a good talk, the nominee's curriculum vitae, and a brief abstract of the proposed presentation (< 200 words, written by the nominee). Nominations may be sent electronically (in one file if possible) to eeb-ecss-nomination@umich.edu using the nominee's name as the subject line (last name first, please). More information will become available at http://-sitemaker.umich.edu/ecss2012 . All nominations must be received by December 31, 2011. Selected participants will be contacted in mid January of 2012.

For more information, contact Cindy Carl at cacarl@umich.edu.

2012 Early Career Scientists Symposium organizing committee:

Christopher Dick cwdick@umich.edu Evan Economo economo@umich.edu Phil Myers pmyers@umich.edu Hayley Lanier hclanier@umich.edu Stephen Smith eeb-smith@umich.edu Ya Yang yangya@umich.edu

Michigan EEB website: http://www.eeb.lsa.umich.edu

Christopher Dick <cwdick@umich.edu>

UNottingham PopGenetics Jan4-7 2

A quick reminder to let you know that the early-bird registration deadline is approaching for PopGroup 45 in Nottingham - 24th November. Registration is still possible after that date but it will cost you more!

Registration is now open for the 45th Population Genetics Group (PGG or PopGroup), to be held at the University of Nottingham, UK, January 4th-7th 2011. See http://www.populationgeneticsgroup.org. This year, invited speakers include Professors Hopi Hoekstra, Michael Lynch and Steve Jones.

PopGroup is an informal international meeting which annually brings together up to ˜200 scientists working in all areas of population genetics and evolutionary biology. Talks and posters from early career scientists are particularly encouraged. The conference is officially registered with the Genetics Society as a special interest group.

Registration fees include everything, except for accommodation which must be booked separately. There is an early-bird incentive - if you book by Thursday 24th November then registration fees are £160 (full), £150 (full + Genetics Society member), £140 (student), £130 (student + Genetics Society member). If you book after this date, then fees will be raised by £10. Registration and booking of accommodation CLOSES on FRIDAY 9th DECEMBER.

The website of the Population Genetics Group can be found at http://www.populationgeneticsgroup.org Confirmed sponsors include The Genetics Society, The Royal Society and Oxford University Press.

The organisers: Angus Davison, John Brookfield, Sara Goodacre, and Tamsin Majerus.

Dr. Angus Davison School of Biology University Park University of Nottingham NG7 2RD

0115 8230322 angus.davison@nottingham.ac.uk www.angusdavison.org

UOxford EcolEvolStudent Jan4-6 Reminder

A short message to remind those interested to register for the 2012 Edward Grey Institute of Field Ornithology 'Ecology and Evolution' Student Conference, to be held on 4th - 6th January.

Abstract submission deadline is 5th December with registration closing two weeks later (19th December), however places are limited so register early to secure your place!

Also, don't forget to check out the updated line up of plenary speakers!

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Dear Colleagues,

We are pleased to announce that registration is open for the 2012 Edward Grey Institute of Field Ornithology 'Ecology and Evolution' Student Conference, to be held on 4th to 6th January 2012.

The conference will take place in the University of Oxford at the Department of Zoology, and it is the aim of the conference to provide a setting for students of various research areas within ecology and evolution to present and discuss their work in a constructive atmosphere composed mainly of their peers. In addition to student talks and posters, the conference will consist of a number of plenary talks given by distinguished investigators. This year will see the conference broaden its scope to embrace ideas derived from non-ornithological systems, offering the ideal opportunity for interaction and exchange of ideas with peers and experienced researchers from a wide variety of disciplines. There will also be opportunities for students to attend workshop sessions during the conference.

Confirmed Plenary Speakers:

Virpi Lummaa (University of Sheffield) Stuart West (University of Oxford) Ben Hatchwell (University of Sheffield) Gavin Thomas (University of Bristol) Patricia Brekke (Zoological Society of London)

For more information, and to register for the conference, please visit the conference website: http://www.zoo.ox.ac.uk/egi/newsevents/conference.htm The registration fee includes workshop attendance, refreshments, a wine reception and also lunch and an end-of-conference banquet in one of Oxford's most beautiful colleges, Trinity College.

If you would like to present at the conference, please submit an abstract of 100 words or less to egiconference@zoo.ox.ac.uk stating either talk or poster (indicating landscape or portrait).

The closing date for the submission of abstracts is 5th December 2011.

Please forward this information on to all those who may be interested in the conference, and we look forward to welcoming you to Oxford in the New Year!

Best wishes,

EGI Student Conference Organising Committee

christopher.cooney@keble.ox.ac.uk

GradStudentPositions

CharlesU Prague CrayfishGeneticVariation

PhD position available from September 2012

Genetic variation, cryptic diversity and interspecific hybridization in European crayfish

Charles University in Prague, Department of Ecology

Within a project on variation of both native and invasive crayfish species found in European waters, we seek a student interested in disentangling the patterns of diversity of crayfish and processes that shaped them. We will analyse samples from a wide range of European countries, employing variety of DNA-based approaches (from sequencing and phylogenetic methods to resolve evolutionary relationships and identify cryptic lineages, to microsatellite analysis of population structures and reproductive modes, and AFLP analyses of putative parental species and interspecific hybrids). The student joining the project will be responsible for analyses of samples from multiple species complexes, focusing on spatial patterns of genetic variation, and signatures of hybridization or gene flow between coexisting lineages. The ideal candidate for this PhD position is interested in both ecology and evolutionary biology (experience of aquatic invertebrates is a plus), has some experience with work in the DNA lab and analysis of sequence data, and is willing to learn new methods and contribute to both fieldwork and laboratory experiments. An ability to successfully collaborate within a wider team of students, and with other national and international research groups, is a must.

The student will work under supervision of Adam Petrusek at the Department of Ecology, Faculty of Science, Charles University in Prague. The department has suitable facilities for the DNA work, and offers supporting work environment in a young team. The project will be conducted in close collaboration with other Czech astacologist groups at the Faculty of Fisheries and Protection of Waters, University of South Bohemia, and the Faculty of Science, University of Ostrava. The student may also spend several months of the study in collaborating institutions abroad, and is expected to regularly present at international meetings. To be eligible, the candidate must have obtained a degree equivalent to a biology diploma or M.Sc. by September 2012 (interested students who are at present in their final year of undergraduate studies are thus eligible). Good knowledge of written and spoken English is essential for candidate of any nationality (this language is fully sufficient for living in Prague and working at the department, and Czech candidates must be equally able to fluently communicate with their foreign colleagues). The position is available for up to four years, starting in October 2012. The PhD candidate's net monthly income will start at 16.000 Czk (ca 670 EUR) in the first year, and may progressively increase with experience and achievements during the study. (Note that living expenses in the Czech Republic are generally lower than in Western European countries.)

If interested, send a letter outlining your past research, motivation for this position and specific experience (max. 2 pages), CV, list of publications or conference presentations (if available), abstract of Master or Diploma thesis, and contact details of 2-3 senior scientists that can provide references on you in a single PDF file to petrusek@cesnet.cz until mid-February

2012. Pre-selected candidates will be encouraged to submit an official application to the university when the call for this position formally opens.

petrusek@cesnet.cz

ColoradoStateU AvianEvolution

Ph.D. Assistantship in Avian Evolutionary Ecology.

We seek a self-motivated and creative doctoral student to conduct research on the population structure, reproductive ecology, and dispersal of the Island Scrub-Jay. Fieldwork will start in spring 2012 and the student will enroll at Colorado State University (CSU) in the 2012 fall semester. This dissertation research will be part of multi-investigator project involving CSU, the Smithsonian Institution, the Cornell Lab of Ornithology, and The Nature Conservancy. The student will be co-advised by Drs. Cameron Ghalambor and Chris Funk at CSU and by Dr. Scott Sillett at the Smithsonian, and be supported by both teaching and research assistantships.

A key project objective is to understand how population structure and dispersal processes can inform conservation management of the jay and the California Channel Islands. The student will have freedom to develop her/his own thesis topic, so long as the dissertation overlaps sufficiently with this objective.

We welcome applications from prospective students with a record of academic excellence, a strong interest in evolution and avian ecology, and extensive training in the observation, capture, and handling of wild birds. Ideal candidates will have a Master's degree, at least one publication, and graduate coursework in statistics and genetics. The successful applicant will need to meet the entrance requirements for doctoral candidates at CSU's Department of Biology (http://-www.biology.colostate.edu/graduate-programs).

To apply, email your CV (including names, phone numbers, and email addresses of three references) and a one-page statement of research interests to issj.student2012@pobox.com. We anticipate selecting a Ph.D. candidate by early February 2012.

Chris.Funk@colostate.edu

CornellU OysterPopGenetics

Oyster Population Genomics / Bioinformatics

The Hare Lab in the Department of Natural Resources at Cornell University is recruiting a MS/PhD student to study larval dispersal and functional genetics of oyster survivorship using genomic DNA sequence analyses of wild-sampled oysters and genome mapping of inbred lines. A two year New York Sea Grant Scholar Fellowship is available to support a student beginning May or August 2012 (pending federal funding of NOAA/Seagrant). Available funding dictates entry as a MS student but transition to a PhD is possible contingent on future funding.

The hypotheses being tested are motivated by the need to optimize oyster restoration procedures with respect to choice of broodstock and spatial arrangement of restored reefs. Further motivation comes from basic evolutionary genetics questions about functional genetic differentiation across physical environmental gradients within estuaries. The primary fellowship focus will be the application of bioinformatic tools to achieve population genomic analyses. Therefore, preferred applicants will have some programming ability and/or bioinformatics experience and want to apply it in novel ways to study natural populations. Some field work and data collection also will be required.

Interested applicants should send CV/resume, a cover letter stating graduate school and career goals, unofficial transcripts and GRE scores, plus names and contact info for three references to Matt Hare at mph75@cornell.edu. Electronic (email) submission of application materials is encouraged. Application Deadline: January 15th but earlier submission is encouraged. If you are selected for this fellowship then I will request that you send official application materials for the Natural Resources Graduate Field to the Cornell University graduate school. For more information on research in the Hare Lab go to http://www2.dnr.cornell.edu/-HareLab/harelab.html. The Hare lab is part of the larger population genomics community at Cornell and is a member of the Cornell Center for Comparative and Population Genomics (http://3cpg.cornell.edu/).

Dr. Matthew Hare Associate Professor Department of Natural Resources 213 Bruckner Hall Cornell University Ithaca, NY 14853 (607)255-5685 (voice) (607)255-0349 (fax)

mph75@cornell.edu

http://www.dnr.cornell.edu/cals/dnr/people/-faculty.cfm?netId=mph75 click on 'Hare Lab Research' for description of research & lab personnel

Matt Hare <mph75@cornell.edu>

CzechRepublic AntEvolution

PHD POSITIONS IN ANT EVOLUTION AND ECOLOGY

1. PHD POSITION IN ANT EVOLUTION

Laboratory of Ecology and Evolution of Social Insects, Biology Center, Czech Academy of Sciences is looking for a PhD student to work on:

PHYLOGEOGRAPHY AND POPULATION GENETICS OF SOUTH PACIFIC ANTS

We are looking for a motivated student with biology background to join our international team focused on ecology and evolution of tropical ants. The PhD candidate will study phylogeography and population history of ants from Melanesia and South Pacific. He/she will use various genomic and genetic tools to study the origin and relationship of ant faunas in New Guinea and South Pacific islands. She/he will combine traditional population genetics methods with Next Generation Sequencing tools. The project will involve short research stays in laboratories in the US (Harvard Univ., Rockefeller Univ.) and/or Mexico (LANGEBIO, http://-www.langebio.cinvestav.mx/), where the student will develop genomic tools and can attend a workshop on bioinformatics applied to the analysis of NGS.

We offer 4 years grant contract (50%) at Biology Center, Czech Academy of Sciences (http://-www.entu.cas.cz/en/). The student will be required to enroll into associated PhD program at Faculty of Science, Univ. of South Bohemia (http://www.prf.jcu.cz/-en/). The salary and stipend are sufficient to cover living expenses in Czech Republic. The beginning of the project is between January and July 2012.

Requirements:

- fluent English and ability to communicate with an international team

- Master degree in biology

- experience with laboratory techniques used in molecular biology (e.g. Sanger sequencing, microsatellite genotyping)

- highly independent

- experience with work in R, and/or basic programming skills (Perl, Python) is preferred

- experience with genetic, bioinformatics, phylogenetic or biogeography research is advantageous

We offer:

- participation in cutting-edge research

- access to unique ecological and biological data and original research topics

- possibility of research visits at Harvard Univ., Rockefeller Univ. or at the National Laboratory of Genomics for Biodiversity (Mexico)

- opportunity to learn novel methods of data gathering and processing (NGS)

Interested candidates should send a short statement of interest, a CV, and the addresses of two potential referees to Milan Janda. mjanda@oeb.harvard.edu

Closing date for applications is December 30. 2011.

Starting date for the position is flexible between February and July 2012.

For further information, please do not hesitate to contact me.

Dr. Milan Janda

Biology Center, Czech Academy of Sciences

Branisovska 31, 37005, Ceske Budejovice, Czech Republic

email: mjanda@oeb.harvard.edu

more information: www.newguineants.org www.entu.cas.cz/en/

http://www.entu.cas.cz/en/departments/department-of-ecology-and-conservation-biology 2. PHD POSITION IN ANT ECOLOGY

Laboratory of Ecology and Evolution of Social Insects, Biology Center, Czech Academy of Sciences is looking for a PhD student to work on project:

MECHANISMS STRUCTURING ARBOREAL ANT COMMUNITIES IN TROPICAL FORESTS

We are looking for a motivated student to join our international research team focused on ecology and evolution of tropical insects and plants (V. Novotný/Y. Basset group). The PhD candidate will study ecology of ant communities living in the forests of Papua New Guinea. He/she will participate on processing of unique material and to analyse datasets from one of the last un-

known frontiers – rain forest tree canopies. She/he will combine traditional taxonomic methods with molecular tools (DNA barcoding, species phylogeny) and learn various statistic methods to analyse ecological community data. He/she will have opportunity to conduct field research at our tropical stations in Paua New Guinea.

We offer 3 years grant contract (50% position) at Biology Center, Czech Academy of Sciences (http://-www.entu.cas.cz/en/) and scholarship at PhD program at Faculty of Science, University of South Bohemia (http://www.prf.jcu.cz/en/). The salary and scholarships are sufficient to cover living expenses in Czech Republic.

Starting date for the position is flexible between January and July 2012

Requirements:

- Master degree in biology or environmental sciences

- enthusiasm for the topic and motivation to learn new things

- experience with work in R and/or other statistical packages

- fluent English and ability to communicate with an international team

We offer:

- participation in cutting-edge tropical biology research

— / —

DukeU EvolutionaryPopulationGenomics

Predoctoral position in evolutionary population genomics at Duke University

Applications are welcomed from individuals interested in working with Marcy K. Uyenoyama and David L. Swofford on the development of sampling-based statistical methods for inference of evolutionary processes.

Applicants should have a background in statistics, computation, bioinformatics, evolutionary biology, or a related field. The student would be welcome to participate in research in one or more of the following key areas:

(1) Population genetics

First-principle analysis of neutral variation at sites linked to targets of selection in structured populations.

(2) Genome-scale sequence analysis

Bioinformatic analysis of population samples of genomes

(3) Sampling-based inference

Construction and implementation of likelihood-based or likelihood-free methods for inferring the existence and location of incompatibility loci

Applications can be submitted to the Duke University doctoral programs in Genetics and Genomics (http://upg.duke.edu/), Computational Biology and Bioinformatics (http://www.genome.duke.edu/CBB/), or Biology (http://www.biology.duke.edu/), but will be forwarded only if they explicitly indicate Marcy Uyenoyama as a possible mentor.

Please send inquiries about any aspect of the position to Marcy Uyenoyama (marcy@duke.edu).

marcy@duke.edu

Goettingen GeneticDataAnalysis

A PhD assistantship in Spatial & Molecular Wildlife Ecology (broadly defined) is available in the Dept. of Forest Zoology & Forest Conservation at the University of Goettingen, Germany.

Position description: The PhD will generally focus on quantitative analysis of genetic and / or GPS-telemetry data. The exact topic(s) of the dissertation are highly flexible, and can be adjusted to fit the experience and interests of the student. Options include the analysis of existing movement data for red elk within different study areas in Germany, landscape genetic simulations, or development of software-tools for spatial and molecular data analysis. The student will be required to (co-)teach one course per academic year, though gaining additional teaching experience will be encouraged. Note that PhD students in Germany are not required to do class work, but opportunities to participate in certain workshops & seminars exist. This is a 50% position and salary is based on the German public service pay scale (salary code E 13 TV-L). The position is initially

funded until Sept. 30th 2014, but an extension for up to three additional years is possible.

Qualifications: Master's degree or comparable qualification required. Candidates should have good knowledge of GIS and the R statistical environment, strong quantitative skills and an interest in both spatial data analysis and wildlife genetics. Programming skills in R and additional languages (preferably Python) are highly desirable. Must be a good teamplayer, but also be able to work very independently.

Applications: Please send applications (cover letter, CV, copy of transcripts, contact info for 2-3 references) via email to: nbalken@gwdg.de. The position will stay open until filled, and the expected starting data is between Februrary and October 2012. The University of Goettingen is an equal opportunity employer / affirmative action employer.

Contact: For more information about the position and other options to join the lab, please contact Niko Balkenhol, Assistant Professor Wildlife Management, nbalken@gwdg.de, Dept. of Forest Zoology & Forest Conservation, University of Goettingen, Buesgenweg 3, 37077 Göttingen. Tel.: +49(0)-551-39-3622.

"Balkenhol, Niko" <niko.balkenhol@forst.uni-goettingen.de>

KansasStateU CricketSpeciation

The Marshall Laboratory at Kansas State University is looking to fill at least one Ph.D. position for Fall 2012. Our research focuses on the genetics of post-mating, prezygotic isolation in the Allonemobius socius complex of crickets (for more details see our lab website www.k-state.edu/cricketlab). If you are interested, please contact me at cricket@ksu.edu.

Funding will be through a new fellowship program that is outlined below.

PhD ASSISTANTSHIPS - The Department of Entomology at Kansas State University, a partner in the Ecological Genomics Institute, is now offering Popenoe Fellowships to select applicants who wish to start a Ph.D. program in Fall 2012. Fellowships provide $25K per year for exceptional students to pursue a PhD in Entomology with any member of our faculty. We are looking for highly motivated, self-directed students who have experience conducting research and can clearly express themselves orally and in writing. Selection will be based on such factors as: academic excellence, as evidenced by rigor of previous coursework, GPA, and GRE scores; research experience, as evidenced by publications and presentations; letters of recommendation; and the statement of purpose, which should detail the applicants general and specific goals. We will also consider the fit between the applicants interests and expertise available in the Department.

For application instructions, visit http://-www.entomology.ksu.edu and follow links to Graduate Program. Applications are due January 15, 2012; please note in your cover letter that you are applying for a Popenoe Fellowship. For more information, contact Dr. David Margolies at dmargoli@ksu.edu.

The Department of Entomology at Kansas State University has an internationally recognized graduate program. A wide variety of opportunities for graduate study are offered in several areas of both applied and basic research. Our goal is to provide students with opportunities for practical experience and course credit in research, teaching, extension, and outreach. Our students publish in some of the leading journals in entomology and related fields. The department encourages presentation of student research at professional meetings by offering student travel awards. Our seminar series brings nationally and internationally recognized scientists to the department to interact with faculty and students. In addition, faculty and students participate together in journal discussion groups on a variety of scientific topics. Students have opportunities to develop outreach skills by participating in the Entomology Club and volunteering at the Insect Zoo.

Jeremy L. Marshall, Ph.D. Associate Professor Department of Entomology Kansas State University Manhattan, KS 66506

Phone#: 785-532-5588 e-mail: cricket@ksu.edu lab website: www.k-state.edu/cricketlab

Jeremy Marshall <cricket@k-state.edu>

ManchesterU EvolutionaryBiology

PhD position in Evolutionary Biology / Behavioural Ecology

Fully funded PhD studentship starting October 2012

Sibling competition and indirect genetic effects: a systems-genetics analysis

Indirect genetic effects occur when genes expressed in other individuals affect the phenotype of a focal individual. These effects are particularly important in sibling interactions and competition over maternal resources but to date we know very little about how genetic variation in socially interacting individuals affects fitness of a focal individual. To this end we are conducting a large experiment in genetically fully characterized mice collecting life history and behavioural phenotypes.

This is a largely computational project during which you will develop systems-genetics approaches to establish networks of lower-order phenotypes (e.g. physiological traits) and their underlying candidate genes that together affect complex life history and behavioural phenotypes in socially interacting individuals. Using DNA seq and gene expression data derived from the largest genetic reference system in mammals, BXD mice, you will be analyzing complex life history and behavioural phenotypes to identify candidate genes, pleiotropic gene effects through correlational analyses, and networks of functionally linked traits and their underlying genetic variants. The aim is to build up networks of genes, their effects and links to lower order phenotypes and how these relate to variation seen in complex life history and behavioural traits.

Successful candidates are encouraged to develop their own research ideas in conjunction with ongoing research in evolutionary biology. There is also the opportunity to contribute to teaching on field courses in Africa, South and Central America.

Further Information This studentship is open to all nationalities although no funding is available to cover the higher tuition fees for non-EU applicants and EU applicants from outside in the UK must have been resident in the UK for purposes other than education for 3 or more years to qualify for the living expenses stipend. Applicants should have an excellent undergraduate record and ideally some research experience. Further information can be obtained by contacting Reinmar Hager reinmar.hager@manchester.ac.uk

How to Apply Applications must be submitted online and accompanied by a number of supporting documents as soon as possible or contact jessica.bowler@manchester.ac.uk http://-www.ls.manchester.ac.uk/phdprogramme Reinmar Hager <Reinmar.Hager@manchester.ac.uk>

MarieCurie ITN 13 Bioinformatics

Dear colleagues,

I would like to inform you of the launch of a new interdisciplinary Marie Curie ITN called EUROTAST. As part of the project, we are currently hiring 13 Early Stage Researchers to work on various projects relating to the history of the transatlantic slave trade. The successful applicants will be recruited from a wide range of disciplines including history, archaeology, social anthropology, genetics and bioinformatics and will be based at 10 partner institutions across Europe. For more information on the individual projects and the application procedure please visit our website at www.eurotast.eu or contact us at enquiries@eurotast.eu.

Kind regards, Hannes Schroeder

-- Dr Hannes Schroeder Centre for GeoGenetics The Natural History Museum Ãster Voldgade 5-7 DK-1350 Copenhagen

+45 35 32 13 46 (office) +45 42 52 36 14 (mobile)

www.eurotast.eu EUROTAST â A Marie Curie Initial Training Network on the History, Archaeology and New Genetics of the Transatlantic Slave Trade

13 PhD Fellowships (in history, archaeology, bioarchaeology, social anthropology, genetics and bioinformatics)

EUROTAST is a new European-funded research network that will bring together an unprecedented range of young researchers to examine the history of the transatlantic slave trade and to explore its long-term effects. As part of the project, we are currently hiring 13 Early Stage Researchers to work on various projects relating to the slave trade. Each Fellowship is equivalent to a 3-year fully funded PhD position and must commence on 1 May 2012. The successful applicants will be recruited from a wide range of disciplines including history, archaeology, social anthropology, genetics and bioinformatics and will be based at 10 partner institutions across Europe. By bringing together researchers from these various fields, we will generate new data that will add to our knowledge of how the slave trade operated and how it impacted the lives of millions of people. For more details on the individual projects please visit our website at www.eurotast.eu or contact us at enquiries@eurotast.eu.

Academic Requirements Eligible applicants for the ESR Fellowships (equivalent to a PhD position) must be in possession of a Masterâs or Bachelorâs degree, in a relevant field. However, individual departments and universities will have their own specific entry requirements. Eligibility criteria set by the European Union for Marie Curie ESR fellowships require that the applicants have no more than 4 years research experience prior to the

envisaged starting date.

Marie Curie ITN mobility requirement Researchers can be nationals of any country other than the country of the premises of the host organisation where they will carry out their project. However, the ESR Fellowships only cover the fee levels for EU citizens, not those for students from outside the EU. At the time of the selection, applicants must not have resided or carried out their main activity (work, studies, etc.) in the country where their Fellowship is to be held for more than 12 months in the 3 years immediately prior to the starting date of the fellowship.

Application process Please note that applications are welcomed from any qualified applicants, regardless of gender, ethnicity or country of origin, but will only be considered if eligibility requirements are met and the application guidelines are strictly adhered to. Applicants should send a full CV, a short cover letter outlining briefly why they are suitable for the position(s), and the names of 2 referees to applications@eurotast.eu. For full details on how to apply please visit our website at www.eurotast.eu. Deadline for applications is 31 January 2012.

Hannes Schroeder <hannes.schroeder@gmail.com>

MaxPlanck EvolutionaryBiology

PhD positions

The International Max Planck Research School (IMPRS) for Organismal Biology offers several PhD student positions. The IMPRS is based in southern Germany and is jointly organized by the Max Planck Institute for Ornithology in Seewiesen and Radolfzell and the University of Konstanz. Outstanding students of all nationalities with a deep commitment to basic research in Organismal Biology are invited to apply.

More than 25 internationally recognized research groups actively participate in the PhD program and offer challenging, cutting-edge PhD projects in the fields of Behavioral Biology, Ecology, Evolution, Physiology, and Neurobiology. For a list of all PhD projects visit www.orn.mpg.de/IMPRS . All students accepted to the program will be supported by stipends or contracts. The program offers dedicated teaching programs, high quality research experience, and outstanding research facilities in an inspiring research and living environment. All courses are taught in English. Each PhD candidate receives individual supervision and mentoring and is guided in her/his research work by a PhD advisory committee.

Deadline for the application is January 15, 2012. Interviews with the applicants are scheduled for mid-March. Candidates accepted into the program may start latest October 2012. The Max Planck Society and the University of Konstanz are equal opportunity employers. Applications from women and historically underrepresented groups are particularly welcome.

Qualification Applicants should hold an MSc or equivalent degree in biology or a related discipline at the point of enrollment. Queries should be mailed to the program office: IMPRS@uni-konstanz.de

Application For the application process visit www.orn.mpg.de/IMPRS International Max Planck Research Schoolfor Organismal Biology Dr. Daniel Piechowski, Scientific Coordinator

c/o University of Konstanz P.O. Box 639 78457 Konstanz Germany

www.orn.mpg.de/IMPRS www.facebook.com/-OrganismalBiology Daniel.Piechowski@uni-konstanz.de dpiechowski@orn.mpg.de

Tel: +49 (0) 7531-88-4916 Fax: +49 (0) 7531-88-4917

Daniel Piechowski <dpiechowski@orn.mpg.de>

MichiganStateU LakeBaikalDiversity

PhD position ' functional diversity of Lake Baikal phytoplankton

We seek a PhD student to investigate functional diversity of endemic and cosmopolitan phytoplankton in Lake Baikal, Siberia within the new multi-institutional NSF project Dimensions of Biodiversity: Lake Baikal responses to global change: the role of genetic, functional and taxonomic diversity in the plankton. Lake Baikal is the oldest, largest by volume and most diverse lake on Earth and is undergoing rapid warming. The main goal of the project is to determine whether endemic plankton have enough genetic and functional diversity to help them adapt to and persist in the changing climate or whether they will be replaced by more warm-adapted cosmopolitan plankton, with significant consequences for the entire ecosystem.

The PhD student will be based at the Kellogg Biological Station (KBS) of Michigan State University working under the supervision of Elena Litchman and collaborating with faculty and students at the University of Texas-Austin, Wellesley College, University of California-Santa Barbara, East Tennessee State University and Irkutsk State University. The student will conduct experiments and field work at Lake Baikal and in the lab in Michigan to assess key functional traits in common endemic and cosmopolitan phytoplankton.

The deadline for application is December 1, 2011 but late applications may be considered. Contact Elena Litchman (litchman@msu.edu) for more information on the position and the application process. For a project abstract, see: http://www.nsf.gov/-awardsearch/showAward.do?AwardNumber=1136710 – Lev Yampolsky

Associate Professor Department of Biological Sciences East Tennessee State University Johnson City TN 37614-1710 G-phone 646-926-7657 (646-YAMPOLS) Office/lab 423-439-4359 Fax 423-439-5958

"Yampolsky, Lev" <YAMPOLSK@mail.etsu.edu>

NorthCarolinaStateU PestEvolution

NorthCarolinaStateU.IGERTGeneticEngineeringSociety

We are pleased to announce a new NSF funded, IGERT doctoral program in "Genetic Engineering and Society: The Case of Transgenic Pests". We are now accepting applications and are looking for students interested in the evolutionary aspects of genetically managing pests through the use of transgenic strains.

The doctoral program will examine questions linked to the genetic modification of mosquitoes, mice, fish, and other species that affect human health, biodiversity, and sustainable development. The general field of inquiry is referred to as "Genetic Pest Management". The first cohort of students starting in July 2012 will focus on issues related to mosquitoes that vector malaria and dengue. Some evolutionary questions are: What are the fitness costs associated with an engineered trait and how will it impact the spread of an engineered selfish genetic element? Will resistance evolve to some transgenic traits faster than to others? What is the best spatial and temporal pattern for release of a specific transgenic strain? What evolutionary tools can be used for pre-release evaluation of a strain?

Students interested in the molecular genetic aspects of the program will focus on building strains or novel gene drive mechanisms. We will also address questions such as: What are the social, ethical, and ecological consequences of these techniques? How can all stakeholders be involved in decisions about these products?

We are looking for excellent students who have majored in a biological science but have a strong interest in and a background in humanities, mathematics, and/or a social science. Students in this program will receive a broad and rigorous graduate training across these areas with emphasis in their chosen field. We also welcome students who have a masters degree and want strong interdisciplinary training at the doctoral level.

Students who participate in the program will receive a PhD in a home doctoral program and a graduate minor in "Genetic Engineering and Society". The minor will include four courses, one of which will be taught in Peru. In addition to full fellowships (2-3 years at $30K per year), funds are available for international internships. After the first 2-3 years students will receive a stipend within the normal range associated with their home doctoral program.

Please visit our website for more details on the program, including a list of participating faculty:http:/-/GeneticEngSoc.ncsu.edu/. In addition to contacting potential faculty mentors, prospective students are encouraged to email questions to: GES_GPM@ncsu.edu

Below is the reference to an article that describes the evolutionary aspects of genetic pest management:

Gould, F. 2008. Broadening the application of evolutionarily based genetic pest management. Evolution 62: 500-510.

fred_gould@ncsu.edu

Sevilla BrineShrimpPhylogeography

Hello evoldir-listers,

we are looking for a motivated Master (or equivalent) student to work at the Doñana Biological Station in Sevilla, Spain in Andy Greens lab (www.ebd.csic.es/-Andy). Previous experience in phylogeography, population genetics or molecular lab is highly desirable but not mandatory.

For application, please send a CV and a motivation letter (mandatory) and contact details (or rec-

ommendation letter) of two-three referees (optional) to andy@ebd.csic.es or lejeusne@ebd.csic.es

Subject: Artemia franciscana is the only native brine shrimp in North America. It has become an invasive species in many other parts of the world owing to its extensive export for use in aquaculture. In Spain and other countries of the Mediterranean region, the native Artemia taxa A. salina and A. parthenogenetica are threatened by the spread of A. franciscana, which quickly outcompetes the native species. Earlier work in our group has addressed the molecular ecology of all these taxa in Spain and the Mediterranean. This work has shown there is a very high level of genetic variation between different populations of A. salina, such that each population lost represents a significant loss of genetic biodiversity. Studies of the invasion genetics of A. franciscana shows that the major sources of invasive populations are the Great Salt Lake and San Francisco Bay in the USA, and that there have been multiple introductions into Spain, combined with dispersal of the invasive between locations via birds such as flamingos.

Now, for the first time, we have the opportunity for a major study of the genetics of natural populations of A. franciscana in Canada. We have samples from c.30 natural hypersaline lakes in Saskatchewan and British Columbia provinces, and aim to study the genetic differences using both mitochondrial markers and microsatellites. Based on our results for A. salina, we hypothesize a high degree of structure, owing to strong monopolization effects and local adaptation. This genetic variation between populations will be studied in relation to geographical distances between lakes, lake size, lake chemistry (are there similarities between populations from lakes with a similar salt composition?), and possibly variation in other zooplankton from the same areas (e.g. the fairy shrimps Branchinecta).

Christophe Lejeusne <lejeusne@ebd.csic.es>

TuftsU SpeciationBiology

Graduate Position: Speciation Biology at Tufts

The Dopman Lab at Tufts University is seeking a doctoral student for Fall 2012 with an interest in speciation biology. The long-range goal of our research program is to gain a better understanding of how genes evolve to restrict gene flow within the context of accumulating isolating barriers that ultimately produce new species. As most life on earth arises following the combined action of multiple isolating barriers, some our deepest insights will come by genetically dissecting barriers that are widespread across taxa and eliminate disproportionate amounts of gene flow between daughter lineages. Emerging research reveals that ecological and behavioral barriers satisfy both criteria.

The Ostrinia genus is well suited to studying speciation because we have information on genetics, ecology, and sexual communication for numerous species. One of the better known Ostrinia is the European Corn Borer (ECB) moth. The ECB is a commonly cited model for speciation biology because sympatric "strains" are at the early stages of divergence and therefore provide a window into the evolutionary process of speciation. Of 12 potential isolating barriers between ECB strains, seven significantly reduce gene flow and five are either behavioral or ecological in nature. Current efforts in our lab are dedicated to elucidating the genetic basis for phenotypes underlying relevant ecological and behavioral barriers between strains, and determining the consequences of this variation for gene flow.

We seek a creative and motivated graduate student to work on speciation using the ECB as a model, but the potential for developing new research directions is high. Students must have the ability to work with others and a sense of humor, both of which are needed to make science fun and worthwhile. A strong undergraduate background in evolutionary biology is required, as is prior research experience. Relevant and highly desirable experience includes application of molecular genetic techniques or computational analysis of gene or genome/transcriptome data.

The Dopman Lab is in the Department of Biology and is a member of Tufts' Collaborative Cluster in Genome Structure and Developmental Patterning. The Cluster focuses on genome to organism research and is located at a new Tufts facility on the main campus in Medford, MA. With two additional Tufts campuses (in Boston and Grafton), other research universities (Harvard, MIT, BU), and the vibrant city of Boston all within reach, Medford and Tufts are ideal places to live and work. (http://ase.tufts.edu/biology/).

Interested individuals should immediately contact Erik Dopman (erik.dopman@tufts.edu) and provide in PDF format the following documents: (1) a 1-2 page cover letter that includes a statement of research interests, relevant educational background, and prior research experience; and (2) a CV that includes GPA/GRE scores and the names and contact information of 2-3 references. Applications to the graduate program are due on 15 January, with departmental review occurring shortly thereafter. (http://ase.tufts.edu/biology/-

graduate/index.asp).

Erik.Dopman@tufts.edu

TulaneU Biostatistics

The Department of Biostatistics and Bioinformatics at Tulane University School of Public Health and Tropical Medicine is actively recruiting students for its PhD Program in Biostatistics. The Program offers advanced training opportunities for students interested in the theory and application of biostatistical methods. Students with background in statistics, mathematics and computational science are especially encouraged to apply. Admitted students will be considered for the competitive financial aids (~$40,000 per year) including tuition waivers and/or stipends, through the departmental funding and/or intramural/extramural research funding (through the Tulane Center for Bioinformatics and Genomics). Besides regular course works and dissertation writing, students in the Program will attend interdisciplinary seminars and participate in independent and collaborative research in the frontier of biological and biomedical studies.

Tulane University is located in the city of New Orleans, a city with rich culture in music and fine cuisines and a deep French heritage. The University is ranked as a top tier university in various national rankings (http://en.wikipedia.org/wiki/-Tulane_University#Rankings).The Department of Biostatistics and Bioinformatics is one of six departments in the Tulane University School of Public Health and Tropical Medicine, which is ranked among the top 15 best US public health schools by US News and the only School of Tropical Medicine in US. The Department includes seventeen faculty members with diverse research interests falling into a wide range of statistical, computational and biological related fields, such as biostatistics, bioinformatics, statistical genetics, functional genomics, proteomics, and computational biology. With many faculty also affiliated with the Tulane Center for Bioinformatics and Genomics, the Department is among the top in the similar US programs in terms of research activity and funding.

The Tulane Center for Bioinformatics and Genomics is a multidisciplinary research entity with the goal of accelerating the pace of scientific discovery, reducing mortality and improving the quality of life. The Center is supported by multiple NIH, NSF and local funding, and conducts cutting-edge research in methodology development and application for human complex disease gene mapping, next-generation sequencing data analyses, genome-, transcriptome-, proteome-wide data analyses, genetic and clinical epidemiology studies, bioimaging analyses, and integrative analyses of multiple-level biological and biomedical data.

jli8@tulane.edu

UAntwerp FitnessLifeHistory

The Faculty of Sciences is seeking to fill the following full-time (100 %) vacancy in the Department of Biology

PhD student in Ecological Immunology

This PhD project focuses on the causes and consequences of individual variation in immune traits in a life history framework. Particular attention will be paid to (1) the relationships between immune measures, endocrine parameters, sexually selected (behavioural) traits and fitness; (2) the interactions of condition, developmental stress and environmental change with the immune system; (3) the effects of aging/senescence on behavioural and immune-endocrine parameters. The study combines the application of immunological (biochemical/physiological) techniques with experimental fieldwork to study the ecology and evolution of immunity in birds. It is tightly linked to ongoing long-term (population) studies of different model species (great and blue tits, European starlings, canaries).

Job description

* You prepare a doctoral thesis in the field of Ecological Immunology.

* You will apply and develop immunological techniques (sensu lato) to study individuals in (wild) bird populations.

* You provide limited support to teaching and research in the Department of Biology.

Profile and requirements

* You hold a master degree in Biology or an equivalent degree in life sciences (Biomedical Sciences, Veterinary science...).

* You are an enthusiastic and highly motivated student with a strong interest in Behavioral and Evolutionary Ecology.

* You have already an expertise and/or interest in lab-

oratory analyses.

* You have preferentially previous experience with animal/bird research.

* You have excellent communication skills with good command of oral and written English.

We offer

* A doctoral scholarship for a period of two years, with the possibility of renewal for a further two-year period after positive evaluation.

* The start date of scholarship will be April 1st, 2012.

* The possibility to join a dynamic and stimulating group of researchers working on all 4 major aspects of animal behaviour (causation, development, function, evolution), with emphasis on sexual selection, communication, and hormone-behaviour relationships in birds (See also http://www.ua.ac.be/marcel.eens or http://-www.ua.ac.be/wendt.muller).

Interested?

* Applications can be submitted only online<http://www.ua.ac.be-/main.aspx?c=*VACATURES&nv923&vid'9629&fac=7&empl0>, until the closing date December 11th 2011; Please include a letter of motivation and contact information of 2 references.

* A pre-selection will be made from amongst the submitted applications. The remainder of the selection procedure is specific to the position and will be determined by the selection committee.

* More information about the application form can be obtained from Ellen Huijer (TEL +32 3 265 31 45).

* For questions about the profile and the description of duties, please contact Prof. Marcel Eens (marcel.eens@ua.ac.be) or Prof. Wendt Müller (wendt.müller@ua.ac.b).

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

e-mail: Wendt.Muller@ua.ac.be web: http://-www.ua.ac.be/wendt.muller tel +32 32652292 fax +32 32652271 mobile:+32 473567276

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

UAuckland Metagenomics

MSc in Metagenomics

An important part of metagenomics is determining the species composition of environmental samples using high throughput sequencing technologies and bioinformatics. One issue is the degree to which organisms are detectable in environmental samples. An MSc research project is available in 2012 for someone interested in addressing this question with samples collected in two research projects from the Hauraki Gulf area (Auckland, New Zealand): soil samples from Little Barrier Island and marine invertebrates from the water column. This project will involve the preparation of samples for high throughput sequencing and the bioinformatic analyses of the sequencing data. This project offers the opportunity to contribute to larger projects, involving members of the Allan Wilson Centre, Dr Rochelle Constantine and others, to characterise the biodiversity in these communities.

Funding A bursary equivalent to the MSc tuition fees for a domestic student ($6,259-7,253) will be provided to a suitable applicant. Funding has been obtained for next generation sequencing of all relevant samples and other lab expenses.

This is a 1-year research project that would suit someone with a BSc(hons) or postgraduate diploma qualification. It is hoped that the student can begin their research in March 2012.

How to Apply Interested applicants should make informal contact with Dr Howard Ross. Please send your Curriculum Vitae and a copy of your academic transcript with a covering letter to:

Dr Howard Ross School of Biological Sciences and Bioinformatics Institute, University of Auckland email: h.ross@auckland.ac.nz

Howard Ross, Senior Lecturer Bioinformatics Institute, School of Biological Sciences, University of Auckland, Private Bag 92019, Auckland Mail Centre, Auckland 1142, New Zealand phone: +64 (9) 923-6160 fax: +64 (9) 367-7136

Howard Ross <h.ross@auckland.ac.nz>

UBern BehaviouralEvolution

2 PhD POSITIONS IN BEHAVIOURAL ECOLOGY

Institute of Ecology and Evolution, University of Bern, Switzerland

1) PhD 'GENETIC BASIS OF COOPERATION': The aim of this PhD-project is to investigate the genetic basis of cooperative behaviour in highly social African cichlids. These fish have turned into a model species for studies of social evolution based on detailed information about their ecology and behaviour, excellent possibilities for behavioural and physiological experiments and recent sequencing of their full genome. We shall pursue a dual approach: (1) a quantitative genetics study employing a large-scale breeding experiment and (2) an ecological genomics approach using molecular biology tools. The project will involve intensive behavioural observations, quantitative genetics modeling and lab work for brain gene expression analyses. Eligible candidates will have a master's degree (or Diplom) in Biology and research experience in animal behaviour, a genuine understanding of evolutionary theory and a strong commitment to basic science. Practical skills in molecular and/or quantitative genetics techniques and in empirical work with fish are beneficial, but not a precondition. The project will be mostly based in Bern, but will involve collaboration with two co-supervisors, Nadia Aubin-Horth (University Laval, Canada) and Mathias Kölliker (University of Basel, Switzerland). The position is part of the Doctoral Research Program ("ProDoc") funded by the Swiss National Science Foundation SNF on "Proximate and ultimate causes of cooperation" and will connect up to 30 PhD students working on animal cooperation by a research network. Supervisor of this project: Barbara Taborsky.

2) PhD 'ALTERNATIVE REPRODUCTIVE TACTICS': The aim of this PhD-project is to study the adaptive responses to mating competition of conspecifics pursuing alternative reproductive tactics (ARTs) that are either fixed for life or dependent on condition. Evolutionary theory predicts that negative frequency dependence will select for tactic frequencies generating equal lifetime fitnesses when ARTs reflect genetic morphs. In contrast, when ARTs are purely conditional they may yield different fitness payoffs. African cichlids showing both types of ARTs will serve as experimental model for this study. It will involve competitive in vitro fertilization experiments, behavioural and environmental manipulations, and - depending on focus - field work on Lake Tanganyika and/or research on physiological control mechanisms. Eligible candidates will have a master's degree (or Diplom) in Biology and research experience in animal behaviour, a genuine understanding of evolutionary theory and a strong commitment to basic science. Practical skills in behavioural observation, multivariate statistics, physiological techniques, empirical work with fish and scientific publication (e.g. of the master's thesis) will be helpful, but are not a precondition. Supervisor of this project: Michael Taborsky.

Both positions are for three years and should preferably start in early 2012.

The successful candidates will join a bustling research environment consisting of ca. 15 PhD-students and advanced research staff, five technicians and a varying number of master's students and guest scientists. Besides this Behavioural Ecology group, the Institute of Ecology and Evolution at the University of Bern comprises research groups in Aquatic Ecology (Ole Seehausen), Community Ecology (Wolfgang Nentwig), Conservation Biology (Raphael Arlettaz), Evolutionary Ecology (Heinz Richner) and Population Genetics (Laurent Excoffier). Salaries will follow the schemes of the national funding organization of Switzerland.

Closing date: Open until filled, but all application materials, including CV, a summary of research experience, copies of any published or in-press papers, and two letters of recommendation should be received by 22 December 2011 to ensure full consideration. Candidates should indicate in a cover letter for which position they apply and when they could take it up. Please send all application material to the secretary's office, c/o Marlis Gerteis, Dept. Behavioural Ecology, University of Bern, Wohlenstrasse 50A, CH-3032 Bern, Switzerland; or as e-mail attachments to marlis.gerteis@iee.unibe.ch. Please consult our web-page for information on our research: http://behav.zoology.unibe.ch/ For inquiries please contact barbara.taborsky@iee.unibe.ch (position 1) or michael.taborsky@iee.unibe.ch (position 2).

PD Dr. Barbara Taborsky Institute for Ecology and Evolution Behavioural Ecology University of Bern Wohlenstrasse 50A, CH-3032 Hinterkappelen,Switzerland

Tel: +41 31 6319 157, Fax: +41 31 6319 141 http://behav.zoology.unibe.ch/index.php?pp=-57&p=124 "Taborsky, Barbara (IEE)" <barbara.taborsky@iee.unibe.ch>

UBern SlugPopGenetics

PhD position - University of Bern

Invasion genetics and ecological interactions in Arion slugs

We are looking for a PhD candidate to work on a project combining genetic and ecological approaches for investigating the history and mechanisms of an ongoing Arion slug invasion. The project aims at the identification of invasion and colonization routes of the Spanish slug Arion lusitanicus that belongs to an Arion species complex, and to assess the effect of the invasive form on native relatives. The project will be mostly laboratory-based and involve marker development using high-throughput sequencing, Sanger sequencing, microsatellite genotyping, and also some fieldwork. At a later stage of the project, laboratory and field-based breeding and competition experiments will be used to investigate the mechanisms of the invasion.

We are seeking a highly-motivated, independent candidate with excellent organizational skills. The ideal candidate has a strong background in evolutionary biology, especially population genetics and phylogeography, experience with molecular laboratory work and data analysis, and interest in ecological interactions. Experience with bioinformatics is a plus but not essential. A degree equivalent to a biology diploma or M.Sc. and a valid driver's license is required. Good knowledge of written and spoken English is expected. Some knowledge of German or French would be beneficial for living in Switzerland but it is not necessary. The working language in our institute is English.

You will be supervised by Gerald Heckel (population genetics) and Eva Knop (community ecology). We offer a stimulating research environment with excellent facilities for laboratory work, computational analyses and ecological experiments. Information on the institute, the University of Bern, or life in general can be obtained from http://www.iee.unibe.ch and http://bern.ch/. For informal inquiries, please contact gerald.heckel@iee.unibe.ch

The position is funded for three years (pending final approval), and the anticipated starting date is December 1st 2011 or soon thereafter. Please send your application including a letter outlining your past research, motivation for this position and specific experience (max. 2 pages), CV, list of publications (if available), abstract of Master or Diploma thesis and contact details of 2-3 referees in a single (!) pdf file to gerald.heckel@iee.unibe.ch

Computational and Molecular Population Genetics (CMPG) Institute of Ecology and Evolution University of Bern http://www.cmpg.iee.unibe.ch "Heckel, Gerald (IEE)" <gerald.heckel@iee.unibe.ch>

UCanterbury ComputationalBiol

PhD opportunities in the Stouffer Lab at the University of Canterbury (New Zealand)

The Stouffer Lab at the University of Canterbury (New Zealand) is seeking applicants for up to three fully-funded PhD fellowships to work on topics related to ecological complexity and understanding the structure and dynamics of ecological networks.

Because of the interdisciplinary nature of the projects, we are interested in applicants from ecology, computational biology, computer science, applied mathematics, engineering, physics, or other related areas.

Interested applicants should see http://stoufferlab.org/opportunities/ for information on how to apply and for more information about our research group.

Applications close 30 November 2011.

Dr. Daniel B. Stouffer School of Biological Sciences University of Canterbury Private Bag 4800 Christchurch 8041, New Zealand

+64.3.364.2729 (office) +64.3.364.2590 (fax) http://stoufferlab.org "Daniel B. Stouffer" <daniel.stouffer@canterbury.ac.nz>

UFrankfurt DaphniaAdaptation

The Biodiversity and Climate Research Centre (BiK-F)-Project Area C "Adaptation and Climate" invites applications for a scholarship for the position of a

PhD student "Environmental stressors and local adaptation in Daphnia" [Ref. #C45]

The successful candidate will have a Master of Science (MSc) or equivalent in evolutionary biology, molecular biology, molecular ecology or related fields. Experience in molecular laboratory techniques is a prerequisite, and experience in the following techniques an advantage: next generation sequencing, microarray analysis or quantitative real-time PCR. A strong background in population genetics and ecology, good written and oral

communication skills in English and teamwork skills are essential for a rewarding research. Working language will be English, and the candidate is encouraged to learn some German.

We are applying a variety of approaches to tackle the question of local adaptation in Daphnia in Europe. However, no previous knowledge of the species is necessary. This position will focus on temperature adaptation and gene expression patterns associated with temperature stress, using techniques such as RNA-seq and microarray technologies. The work will benefit from and contribute to the Biological Archives working group, using resting stages from various organisms to answer important evolutionary questions such as the scale and rate of adaptation. Within the Biodiversity and Climate Research Centre you will have ample opportunities to interact and collaborate with faculty, postdocs and PhD students specializing in a variety of topics, such as biogeography, phylogenetics, macroecology, genomics, modelling, and bioinformatics. The place of work will be Frankfurt am Main, Germany.

This position will be funded through a scholarship in cooperation with GRADE. It should start December 1st 2011 and will be limited to June 30th 2014, with the possibility of extension up to 36 months total, if funds are granted. GRADE and BiK-F advocate gender equality. Women are therefore strongly encouraged to apply. Equally qualified severely handicapped applicants will be given preference. Please send your application by mail or preferably by e-mail attachment, mentioning the reference of this position (#C45) and including (1) a letter outlining your interest for this research topic, (2) a detailed CV, (3) contact details of 2 referees and (4) a copy of your thesis and other relevant exams to: Prof. Dr. Dr. h.c. V. Mosbrugger, Scientific Coordinator Biodiversity and Climate Research Centre, Senckenberganlage 25, D-60325 Frankfurt am Main, Germany. E-mail: recruiting@senckenberg.de.

Review of applications will begin on November 11th, 2011, and continue until a suitable candidate is identified. Informal inquiries to Klaus Schwenk or Mathilde Cordellier (k.schwenk@bio.uni-frankfurt.de or m.cordellier@bio.uni-frankfurt.de) before the application are welcome.

More information about BiK-F can be found here: http://www.bik-f.de/ Mathilde Cordellier <m.cordellier@bio.uni-frankfurt.de>

UHaifa ComputationalGenomics

A Ph.D. position in Computational Genomics and Phylogenetics are available at the Institute of Evolution at the University of Haifa.

The research projects will be done in collaboration with the Phylogenetics and Computational Genomics lab of Dr. Sagi Snir.

Next Generation Sequencing has opened up unprecedented opportunities for researches from the quantitative sciences. Genomic sequences of enormous quantities are available for all sort of advanced biological analysis. Analytical skills beyond the traditional biological training are imprative. The positions are targeted to two projects:

1. The project is focused on large scale phylogenetics reconstruction by means of the supertree method. The project is based on algorithmic and computational/mathematical tools for piecing together the tree of life. We represent trees in a special graph and apply specific graph algorithms such as MaxCut on this graph. Preliminary results show advantages over existing methods. As these tasks are computationally hard, we employ probabilistic approaches to obtain the results. We investigate both theoretical and practical questions associated with this approach.

2. Detection and analysis of horizontal gene transfer (HGT) in prokaryotes. HGT is a major factor in prokaryotic evolution and plays a significant role in developing antibiotic resistance. We have developed several novel methods to detect HGT where existing methods fail. The methods use evolutionary signals, unique to HGT, that are detected by non trivial statistical approaches.

Both projects are funded by highly competitive grants that provide high fellowships. Outstanding candidates from both exact and life sciences are encouraged to apply. Qualified candidates will earn very high salaries.

Familiarity with computational/mathematical biology is favourable. Essential requirements include proficiency in computer-programming skills, such as C/C++/Java and scripting languages (e.g. Perl, Phyton), demonstrated ability in applying the devised algorithms.

The Institute of Evolution is world leading in broad as-

pects of evolution, both theoretical and practical. The young team of Dr. Snir is characterized by works with both algorithmic and evolutionary appeal with ample collaboration with other leading labs around the world.

Please send applications by email to:

Sagi Snir, Ph.D. Sagi Snir Department of Evolutionary and Environmental Biology and The Institute of Evolution, University of Haifa Mount Carmel, Haifa 31905 ISRAEL Tel: (972) 4 828-8774 Email: ssagi@research.haifa.ac.il

Sagi Snir <ssagi@research.haifa.ac.il>

UHelsinki AntLifeHistory

PhD (4 years) position in Helsinki, Finland

A four-year PhD position is available at the Department of Biosciences, University of Helsinki. The starting date is flexible between 1.1 -“ 1.4 2012. The main topic is social immunity, life history trade-offs and host-parasite interactions in the ant Formica exsecta. The approach entails field work, laboratory experiments and molecular analyses. The main part of the work will use a population subject to long-term monitoring for fitness-correlated traits, dispersal patterns, and demography.

The research group in Helsinki comprises three collaborating research teams, including faculty, other post docs and PhD students (see links below). As of 2012 we are also part of a Finnish Centre of Excellence, with the other partners located at the University of Jyväskylä (Johanna Mappes and Jaana Bamford), and Australian National University (Hanna Kokko). The successful applicant will have the opportunity to develop additional questions related to the main research program in collaboration with other members of the CoE as well as collaboration partners at other institutes.

We are looking for a strongly motivated candidate with an MSc in the field of Evolutionary Biology and Ecology, or a related discipline. The student will work in the field, on field-collected material, laboratory experiments, and immune challenges and assays. Thus a willingness and ability to work in the field is essential, and any prior experience in immune assays on insects, experimental design, and molecular techniques is a bonus. He/she will be given guidance especially at the beginning, but will be expected to become more independent towards the end of the PhD. Salary ranges between ¿2000-2300 brutto per month and includes benefits (health insurance) which are included in the Finnish system.

Applications will be reviewed starting December 10th until the positions are filled. The earliest start date is January 1st 2012, the actual starting date is negotiable.

Applications should be sent to Lotta Sundström (liselotte.sundstrom@helsinki.fi), and include: (1) a cover letter describing your research interests and qualifications, (2) a full CV, and (3) contact information (email, phone number) of 2 referees. Please include ≪PhD application≫ in the subject line of the e-mail. Informal inquiries are welcome, but not between November 26th and December 9th.

Links:(http://www.helsinki.fi/biosciences/-ecologyandevolutionarybiology/research.htm); http://-www.helsinki.fi/science/ants/Antzz.html)

liselotte.sundstrom@helsinki.fi

UIdaho 2 Genetic mark recapture

PhD Graduate Project Opportunities

University of Idaho

We are currently recruiting two PhD students for May 2012 to design and implement monitoring programs for (1) Sonoran pronghorn and (2) kit fox based on combining non-invasive genetic sampling with capture-recapture modeling. Both projects will involve developing a spatio-temporal sampling design for collection of fecal DNA, field sampling, laboratory genetic analyses, and mark-recapture modeling. Projects are collaborations with U.S. Department of Defense, USFWS, as well as state and university biologists. Graduate stipend is ~$20K/year and will also include payment of tuition and fees.

Interested applicants should send CV/resume, cover letter/statement of purpose, transcripts, GRE scores plus names and contact info for three references to lwaits@uidaho.edu. In your statement of purpose, please indicate which species you prefer to study. Please note that we do not need official transcripts and GRE scores at this stage. If you are selected to join our research group, then we will ask you to send all official documents and 3 letters of recommendation to the University of Idaho graduate school applications office. Electronic (email) submission of applications is encour-

aged but mail is also fine. Application Deadline: January 15th but earlier submission is encouraged.

For more information contact Drs. Lisette Waits (lwaits@uidaho.edu) or Jon Horne (jhorne@uidaho.edu)

– Lisette Waits, PHD Professor Fish and Wildlife Resources Center for Research on Invasive Species and Small Populations Laboratory for Conservation and Ecological Genetics University of Idaho PO Box 441136 Moscow, ID 83844-1136 Phone: (208) 885 7823 Fax: (208) 885 9080 lwaits@uidaho.edu http://www.uidaho.edu/cnr/-fishwild/lisettewaits http://www.cnr.uidaho.edu/-crissp http://www.cnr.uidaho.edu/lecg/ http://-www.cals.uidaho.edu/igert2/ lwaits@uidaho.edu

ULausanne AntEvolutionaryGenomics

MSc and PhD student positions to study ant evolutionary genomics

Department of Ecology and Evolution University of Lausanne, Switzerland

MSc and PhD positions are available in the lab of Prof. Laurent Keller (http://www.unil.ch/dee/-page6763_en.html). Our group is interested in the principles governing the behavior, ecology, and evolution of animal societies. While this is richly described by theory, how this is translated to the molecular level is virtually unknown. We have recently published the genome of the red imported fire ant and the lab continues to develop genomic infrastructures in this species. We use genomic approaches to identify candidate genes and pathways that are associated with the biology of social insects. In particular, we are using next generation sequencing to study gene expression and population genetics in fire ants. Ultimately, our goal is to elucidate the evolution of molecular mechanisms underlying traits that characterize social insects. Possible research topics include, but are not limited to, social behavior, caste determination, immunity, and aging.

Candidates should be highly motivated and have a background in bioinformatics and in molecular, genomic, or cell biology. Good knowledge of English is required. Interested applicants should send a short summary of research interests and experiences (in English), a curriculum vitae, as well as the names, emails and phone numbers of 2 references to Eyal Privman:

Eyal.Privman@unil.ch

ULausanne PlantEvolution

A three-year PhD studentship is available for research on the evolution of plant sexual systems and mating strategies in the Department of Ecology and Evolution at the University of Lausanne. The projectX. Flowering plants display a bewildering range of floral forms that have evolved to meet the challenges of relying on animals, wind or water for pollen transfer. Particularly interesting are the factors responsible for, and the implications of, transitions between contrasting forms or strategies. This project will study the ecology and genetics of evolutionary transitions between outcrossing, on the one hand, and an ability to self-fertilize, on the other. The student will work on one (or both) of two different study systems: the breakdown of self-incompatibility in an insect-pollinated species of a Spanish species of toadflax, Linaria cavanillesii; and the evolution of inflorescence architecture in Spanish populations of the wind-pollinated European species Mercurialis annua following the evolution of hermaphroditism from separate sexes. The project is likely to involve a combination of field-work, manipulative experiments of plant mating strategies, parentage analysis using molecular markers, analysis of the genetic and genomic implications of transitions between outcrossing and selfing, and the possibility of some theoretical modelling.

The labX. The project will be conducted in John Pannells lab in Lausanne, and will fall squarely within the current research interests of the group. At present, we are working on the ecological and genetic factors underlying two major transitions that have taken place repeatedly in plants: the evolution of separate sexes from hermaphroditism, and vice versa; and the evolution of an ability to self-fertilize. What causes these transitions, and what are their genetic and demographic implications? We are also currently interested in how reproductive effort and sex allocation evolve when individuals have to compete for both resources and mating opportunities, and in the evolution of sex-determination mechanisms and sex chromosomes. For further information and a list of publications, see: http://www.unil.ch/dee/page86963.html . The research and living environmentX. The Department of Ecology and Evolution in Lausanne is well resourced and provides a stimulating research environ-

ment, with an active program of seminars and discussion groups (in English); see http://www.unil.ch/dee/. The doctoral program includes activities organized with several other universities in Switzerland. Lausanne, situated on the northern shore of Lake Geneva, has a lively cultural life and is surrounded by spectacular mountain environments; see http://www.lausanne.ch/ . ApplicationsX. Candidates should have a masters degree in an appropriate discipline and a keen interest in evolutionary biology. Applications should be sent directly to John Pannell by email (john.pannell@unil.ch) and should include: an explanation of your motivation for conducting research on the advertised topics; details of when you would be available to start your project; and a CV that includes the names and addresses of two people who could supply written references. The position will remain open until a suitable candidate is found; however, for full consideration, applications should be received by 21 November 2011. The starting date is envisaged for early 2012 but can be somewhat flexible.

John Pannell <John.Pannell@unil.ch>

UMiami PlantInsectInteractions

Ph.D. Student Openings in tropical South Florida, U.S.A. The ecology and genomic biology of plant/insect and insect/symbiont interactions.

My lab is broadly interested in the biology of plant sap feeding insects. In particular we apply ecological, genetic and genomic approaches to studying the nitrogen metabolism of these tritrophic systems at two interfaces: the plant/insect interface and the insect/symbiont interface. Current graduate research opportunities include (but are not limited to) projects that focus on host plant responses to aphid feeding and characterization of regulators operating at the symbiotic interface in the aphid/Buchnera symbiosis. Methods employed include everything from experimental manipulation of insects and their host plants, stable isotope analyses through, gene expression analyses, functional genomics and whole genome sequencing.

The University of Miamis Department of Biology graduate program promises integrative training in the biological sciences with opportunities to collaborate with faculty in the Departments of Chemistry and Computer Science and UMs Medical and Marine Schools.

The Wilson lab was renovated in 2007 and offers excellent molecular lab, dry lab and plant growth facilities. Shared facilities available in the department include tissue culture, microscopy, molecular and shade house core facilities.

Fellowship-based, as well as teaching assistance-based financial support is available. All PhD students are guaranteed 10 semesters of tuition waiver and financial support. Applications for the 2012-2013 academic year close December 1st 2011.

International as well as national applicants are strongly encouraged to apply. In the case of international applicants, PhD programs in the USA can differ considerably from PhD training programs in other parts of the world, in particular with regard to the length of the training period. Dr Wilson, who earned her PhD from Macquarie University, Sydney, Australia, is more than happy to discuss any concerns potential applicants may have about these differences.

For more information please contact: Alex Wilson acwilson@bio.miami.edu

Lab webpage: http://www.bio.miami.edu/-acwilson/home.htm Faculty profile: http://-www.bio.miami.edu/Fac/AWilson.html Department of Biology: http://www.bio.miami.edu/ University of Miami: http://www.miami.edu/ Please also check out the research pages for other UM Department of Biology faculty, many of whom are also accepting students: http://www.bio.miami.edu/facultydirectory.html Alex C. C. Wilson Assistant Professor Dept. of Biology University of Miami Coral Gables, FL 33146, USA +1 (305) 284 2003

Alex Wilson <acwilson@bio.miami.edu>

UMontana EvolutionaryGenetics

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

Current research projects in the lab are focused on the genetic basis of hybrid sterility and inviability, molecular evolution, hybridization in natural populations, and adaptation to seasonally changing environments. These topics are addressed using diverse approaches including population genetics, 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 with unrivaled access to the mountains and rivers of western Montana.

More information on the Good lab and admission requirements for the OBE program the please visit our 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 2012 admission to the OBE program must be submitted by January 10th.

jeffrey.good@mso.umt.edu

UMontana GenomeEvolutionSymbionts

The McCutcheon lab at the University of Montana in Missoula is looking for students interested in graduate studies in the general areas of microbial genome evolution and insect-microbe symbiosis.

Several potential projects are available related to extreme genome reduction in bacterial symbionts of sap feeding insects, and in the genome evolution in fungal symbionts of various beetle species. All projects will involve the generation and analysis of large-scale genomic datasets, and so students with strong interests and abilities in genomics or bioinformatics are particularly encouraged to apply.

Missoula is terrific small college town, situated near the confluence of several world-class fly fishing rivers, and allows easy access to numerous hiking, biking and skiing opportunities in the mountains of western Montana.

More information on the McCutcheon lab, Missoula, and the research environment at the University of Montana can be found at our website:

http://mccutcheonlab.dbs.umt.edu/ Interested students are encouraged to contact Dr. McCutcheon directly. Please include a brief (1 page or less) description of research interests, including the reasons you are interested in the lab, and a CV in your email.

john.mccutcheon@mso.umt.edu

UOregon EvolutionaryBiology

Applications are now being accepted for integrative graduate education in Ecology, Evolution, Development, and Genomics at the University of Oregon (UO).

The Department of Biology and the Institute of Ecology and Evolution (IEE) at the University of Oregon seek outstanding applicants for the PhD program. We are looking for highly motivated students who wish to develop high-caliber research programs in any area of ecology and evolutionary biology.

IEE consists of a dynamic, energetic, and highly interactive group of faculty members, graduate students, and postdocs whose research interests are world-renowned and span traditional disciplines. Particular strengths of the group include molecular evolution, evolutionary genetics and genomics, evolution of development, and microbial, population, community, and ecosystems ecology. IEE maintains close ties with other research institutes and departments on campus, including the Institutes of Molecular Biology and Neuroscience, the Oregon Institute of Marine Biology, and the Departments of Chemistry, Geography, Computer Science, Geology, and Landscape Architecture. Our integrative approach to research and graduate education is supported by numerous grants, training grants, and fellowships from both federal and privately-funded sources.

The University of Oregon is located in the heart of Eugene, a progressive and very livable city of approximately 200,000 people. Eugene provides many opportunities for intellectual and cultural stimulation, and its location is ideal for the naturalist at heart being within an easy 1-2 hour drive of both the Cascade Mountains and the Oregon Coast. It is consistently voted one of the top ten greenest cities in the U.S.

For more information about IEE (formerly known as the Center for Ecology and Evolutionary Biology) and individual faculty research interests, please see the IEE website (http://ie2.uoregon.edu) as well as individual lab websites. For information about graduate studies in the Department of Biology, or to submit an online application, please see: http://-biology.uoregon.edu/graduate/apply.php/ . The deadline for online applications is December 15, 2011. For specific inquiries about IEE, please contact Matt Stre-

isfeld (mstreis@uoregon.edu).

mstreis@gmail.com

UOtago AncientDNA

PhD position available Allan Wilson Centre for Molecular Ecology and Evolution

University of Otago

New Zealand.

"An audit of prehistoric New Zealand"

We seek an enthusiastic and dynamic young researcher to undertake ancient-DNA studies of New Zealands prehistoric coastal animals. The project will develop skills in ancient-DNA techniques, next-generation sequencing, archaeology and phylogeography. New Zealand has an exceptionally well-preserved archaeological record, and the University of Otago has outstanding facilities for ancient-DNA work. Background experience in molecular techniques is highly desirable, and interest in biogeography and/or archaeology would be beneficial.

This PhD position is funded by the Allan Wilson Centre for Molecular Ecology and Evolution: http://-www.allanwilsoncentre.ac.nz/. The student will be part of a team investigating anthropogenic extinction and recolonisation processes in coastal New Zealand (Marsden funding). The scholarship provides NZ $25,000 per annum (2012-2015) and also covers tuition fees and thesis costs.

For more information, please contact:

Professor Jonathan Waters Department of Zoology University of Otago. +64 3 4795847

jon.waters@otago.ac.nz

http://www.otago.ac.nz/Zoology/-staff/otago008938.html jon waters <jon.waters@otago.ac.nz>

URochester EvolutionaryGenetics

Announcing opportunities for graduate study in the laboratory of John (Jack) Werren at the Biology Department, University of Rochester. Potential topics of study include (a) evolution of gene networks in development, (b) genetics of adaptation (behavior, morphology) and speciation (hybrid incompatibilities), (c) function and evolution of parasitoid venoms, (d) endosymbiosis and the dyanamics and evolution of microbial-host interactions (e.g. Wolbachia and other endosymbionts), (e) Lateral gene transfers between bacteria and animals, and (f) genome evolution, including the evolution of selfish DNA.

For more information, please contact John (Jack) Werren at werr@mail.rochester.edu.

John (Jack) Werren Professor of Biology University of Rochester Rochester, NY 14627 Office: 585-275-3694 Lab: 585-275-3889 Fax: 585-275-2070 web:

http://www.rochester.edu/College/BIO/labs/-WerrenLab/index.html werr@mail.rochester.edu

USherbrooke KangarooFitness

As part of a long-term study that began in 2008, the student will use data on growth, survival, genotype, pedigree and reproduction of known-age kangaroos to examine questions related to the causes and consequences of variability in timing of birth, growth rate and early reproductive effort. The program will include 4-5 month of fieldwork at the Wilson Promontory National Park, Victoria, each year for 3 years, capturing and observing kangaroos. Research partners include Graeme Coulson at the University of Melbourne and Dave Forsyth at the Victoria Dept. of Sustainability and the Environment.

The ideal candidate will have a research-based M.Sc. degree, publications, fieldwork experience, strong quantitative skills and a basic knowledge of French. Canadian candidates will be preferred, strong foreign candidates are welcome. A tax-free scholarship is available. Research costs will be covered. The program can start in January, May or September 2012. See http://-pages.usherbrooke.ca/mfesta/marco.htm If you are interested e-mail me a CV, a letter stating your research interests, and e-mail addresses of two referees able to evaluate your potential as a researcher. Marco Festa-Bianchet: M.Festa@USherbrooke.ca

m.festa@USherbrooke.ca

USussex EvolutionSexualAntagonism

PhD - University of Sussex

Evolution of Sexual Antagonism

A 4-year PhD position is available as part of an ERC funded project investigating the evolution and genetics of sexual antagonism in the fruit-fly Drosophila melanogaster, led by Dr Edward H. Morrow. The project will primarily involve large scale assays of sex-specific fitness under both laboratory and field conditions, in combination with modern genomic methods to investigate the genetic basis of fitness variation and the evolution of sexual dimorphism.

The position would be ideal for a highly motivated student with an interest in evolutionary biology or genetics/genomics who would like to work as part of a team on a generously funded project. There will be many opportunities for the student to develop their skills and experience, and the student is expected to play an important role in project development. The candidate should have excellent organisational, communication and computing skills. Experience of working with Drosophila or insects is preferable but not essential. The post-holder must have a degree or Masters in a biological or related subject. The flexible starting date is January 2012.

The School of Life Sciences at the University of Sussex includes a range of experimentalists and theoreticians working on various aspects of molecular and whole organism evolutionary biology. There are good transport links between the Falmer campus and the lively towns of Brighton and London.

Informal enquiries with a CV are welcome and should be sent to Ted Morrow: ted.morrow@ebc.uu.se

HOW TO APPLY: Please email a statement of interest and research goals (2 pages max), CV, publications list, and a transcript of academic courses taken (scanned copies are fine) to ted.morrow@ebc.uu.se Applicants should also arrange to have 2 referees send letters of recommendation via email to me by the closing date of 30th November 2011.

Dr Edward H. Morrow

Current Address: Department of Ecology and Evolution Animal Ecology (zooekologi) Evolutionary Biology Centre Uppsala University Norbyvägen 18-D SE-752 36 Uppsala SWEDEN Email: ted.morrow@ebc.uu.se Tel: +46 18 471 2676 Fax +46 18 471 6484 Webpage: http://www.ebc.uu.se/Forskning/IEG/-zooeko/Personal/Ted_Morrow/ ResearcherID: http://-www.researcherid.com/rid/C-2358-2011 Address from January 2012: University of Sussex John Maynard Smith Building Falmer Brighton, BN1 9QG UNITED KINGDOM

Edward Morrow <ted.morrow@ebc.uu.se>

UVienna TrichopteraSystematics

Praedoctoral Position in morphological and molecular Phylogeny of Drusinae (Insecta: Trichoptera)

The Department of Limnology, University of Vienna, is offering a Praedoctoral Research Position (i.e. PhD student opportunity) for an enthusiastic researcher to work in the field of morphological and molecular Phylogeny of the Trichoptera subfamily Drusinae. As part of a project funded by the Austrian Science Foundation (FWF), the first cornerstone of the PhD thesis will deal with a morphological data matrix which will be expanded by adding new characters from species currently in our collections not yet fully coded and by additional species collected by separate collecting teams during the project. The expected output will be a complete character matrix relevant for all existing Drusinae species. The second cornerstone will consist of phylogenetic analyses of morphological and molecular data sets via parsimony, Bayesian MCMCMC and Maximum likelihood inferences. The expected output of this thesis section will significantly refine the resolution of the phylogenetic relationships of the subfamily known so far. The expected publication effort of the PhD student will also comprise a comprehensive key for all Drusinae species. The PhD candidate will be trained at the Department of Limnology (University of Vienna) by Prof. J. Waringer and by Dr. S. Pauls at the Biodiversity and Climate Research Centre (LOEWE BiK-F), Frankfurt a.M., Germany. In addition, the student will be hosted by Prof. R. Holzenthal in order to get international experience and expert opinion on morphological character coding and homology assessment. The PhD candidate will also participate and co-organize the planned project workshops.

The praedoctoral scholar will have plenty opportunities to collaborate with a diverse group of researchers,

including Dr. Wolfram Graf (University of Natural Resources, Vienna, Austria), Prof. M. KuÄiniÄ and Dr. A. PreviÅiÄ (Zoology Department, University of Zagreb, Croatia), Dr. Lujza UjvÃrosi (Universitatea Babes-Bolyai, Cluj, Romania) and Dr. Miklos BÃlint (Biodiversity and Climate Research Centre (LOEWE BiK-F), Frankfurt, Germany).

We are looking for a highly motivated and self-directed candidate intending to acquire her/his PhD degree at the University of Vienna, and with a strong interest in insect phylogeny, morphology and molecular genetics. Experience in the fields of DNA barcoding, phylogenetic reconstructions using PAUP*, TNT and Bayesian MCMCMC and maximum likelihood inferences will be appreciated. Excellent written, verbal and interpersonal skills, and the ability to think creatively and critically are desired. The position is funded for 3 years (half time). Salary is approx. â¬16, 500*peryear*(*brutto*).

You may contact and send your application by e-mail to Prof. Johann Waringer (johann.waringer@univie.ac.at). Applications should include a single pdf-file containing a CV, a list of publications, a short statement of previous research activities and motivation, and a list of three references (including contact details). Applications received before 31 December 2011 will be given full considerations.

Dr. Steffen Pauls Aquatic Evolutionary Ecology Biodiversity and Climate Research Centre (BiK-F) Senckenberganlage 25 D-60325 Frankfurt am Main +49 (69) 7542-1884 +49 (69) 7542-1800 steffen.pauls@senckenberg.de

Steffen Pauls <Steffen.Pauls@senckenberg.de>

UWindsor EvolutionGenomics

PhD Positions in Ecological Genomics, University of Windsor, Canada Two PhD positions beginning September 2012 are available at the Great Lakes Institute for Environmental Research (GLIER), University of Windsor. The positions are funded by the NSERC CREATE training program in Aquatic Ecosystem Health. The program promotes collaborative and innovative multi-disciplinary research through a combination of selective curricula, intensive workshops, national/international student exchange and/or internships. The program aims to provide students with advanced multi-disciplinary expertise (evolution, environmental toxicogenomics, ecology, and chemistry), technical skills, as well as valuable professional skills. Graduate students trained in our program will gain a broad interdisciplinary perspective on the long-term effect of micro- pollutants in aquatic environments (http://www.uwindsor.ca/erasmus-create/).

We are looking for highly motivated individuals with strong analytical skills. Successful applicants must have obtained a research-based MSc degree in a related discipline (e.g., evolution, molecular ecology, toxicology, genomics) and must have a demonstrated interest in team-based and interdisciplinary projects. International students with strong credentials (competitive GPA, strong English proficiency) and publications in peer-reviewed journals are encouraged to apply. The research in the GLIER multidisciplinary laboratories combines broad approaches at the interface between evolutionary biology, genomics, ecology, environmental chemistry to address relevant environmental and evolutionary questions. We study multiple stressors in aquatic environments with special emphasis on the metal-induced mutation process from genomes to populations. CREATE graduate students use lab experiments, field studies and computational analyses of large scale sequence data to test speciation patterns, the genetics of habitat transitions and local adaptation in freshwater crustaceans. Interested student should send their CV, a brief statement of research interest, along with a list of 3 references to Dr. Melania Cristescu at Email: mcris@uwindsor.ca

Melania E. Cristescu Associate Professor Director, NSERC CREATE Training Program in Aquatic Ecosystem Health University of Windsor Great Lakes Institute for Environmental Research 401 Sunset Ave Windsor Ontario Canada N9B 3P4

Phone: (519) 253-3000 Ext. 3763 FAX: (519) 971-3616 E-Mail: mcris@uwindsor.ca www.uwindsor.ca/glier/-melania-cristescu www.uwindsor.ca/erasmus-create Melania Cristescu <mcris@uwindsor.ca>

UWisconsin Milwaukee KelpPopulationGenetics

The Alberto lab at UW-Milwaukee is seeking doctoral students for fall 2012 with an interest in molecular ecology of kelp (brown macroalgae) forests. Our interest is broad in all areas of population genetics analyses from

fine scale spatial genetic structure and demographic inference, to oceanscape genetics and range wide biogeographical analysis of model organisms. Our focus is both on empirical research through the acquisition of population genetics data, using molecular marker techniques, and simulation based hypothesis testing. Our closer collaborators include the Santa Barbara Coastal LTER (http://sbc.lternet.edu/) based at UCSB, California, and the Center for Marine Sciences at University of the Algarve, Portugal (http://www.ccmar.ualg.pt/-maree/). Students interested in developing projects in topics related to seagrass population genetics or the balance between clonal and sexual strategies, focusing on marine or freshwater plant model species, are also welcomed to contact me. Please see my website for more information on our team (http://alberto-lab.blogspot.com/).

Much of our work involves some form of programming in R, students are expected to be motivated to learn programing. While programming skills are a benefit, they are not required to successful applicants.

UWM has an active group of researchers studying evolutionary genetics and behavior:

(https://pantherfile.uwm.edu/rafa/www/-BME%20site/BME%20home.htm)

Students would enroll in the graduate program in the department of biological sciences at UWM (http://www4.uwm.edu/letsci/biologicalsciences/-grad/gradapp.cfm).

The minimum requirements for admission to the Biology Department include an undergraduate GPA of at least 3.0 and GRE scores (both verbal and quantitative) in the 50 percentile or better.

You can find more information from the Graduate School website http://www.graduateschool.uwm.edu/-students/prospective/ . All graduate students at UWM can be supported financially by teaching assistantships (TA) and receive a stipend, full tuition waiver, and health insurance. TA appointments are usually made at the 50% level, which involves a teaching commitment of 20 hours per week. MS students can expect TA support for up to three years and PhD students up to five years. You must apply by the 1ˆst of January 1 to be considered for a TA position.

There are also other opportunities for funding, such as University wide fellowships that are generally based on GRE and GPA, which are given to students after they have been enrolled at UWM for one year.

To apply please send me an email including 1) a statement of research interests, 2) a summary of your previous academic and research experiences, and 3) a summary on how your research interests might fit our ab. Finally, please include a CV (with GPA and GRE scores).

Filipe Alberto

e-mail: albertof@uwm.edu

Filipe Alberto <albertof@uwm.edu>

UWyoming Biodiversity

Graduate Assistantship: Climate Change, Water, and Ecosystem Services University of Wyoming

I am recruiting a MS or PhD student to investigate how long-term changes in climate will impact water (distribution, abundance, quality) and ecosystem services (e.g., biodiversity and livestock production) in Wyoming range systems. The effects of climate change are critically important in semi-arid systems where water is the ultimate limiting factor. Water availability is predicted to decrease in Wyoming rangelands regardless of precipitation due to temperature-related increases in vegetative evapotranspiration rates. In addition, annual water supply in high elevation systems is dependent on spring snowmelt from the mountains which may be significantly impacted by shifts in precipitation timing. Water shortage has negative consequences for both biodiversity and human resource use.

Semi-permanent wetlands are indicators of surface water availability. The selected student will use field-based and remotely-sensed data to characterize wetlands and quantify biodiversity. The student will then link these components with human resource use under alternative scenarios of climate change. Student will also have the opportunity to incorporate molecular methods to quantify biodiversity and landscape connectivity (landscape genetics approaches using population genetics).

Prospective students with a background in natural resources, ecology, evolution, and/or population genetics are encouraged to apply. Evidence of robust analytical skills, scientific writing, strong work ethic, passion for scientific inquiry, ability to work under harsh field conditions and aptitude for collaborative research are expected.

My spatial ecology and landscape genetics research group is focused on understanding fine-scale distribution and functional connectivity of animal species

in ecological systems (https://sites.google.com/-site/murphylabuwyo/). University of Wyoming (www.uwyo.edu) is ideally located in Laramie, Wyoming with easy access to varied field sites and outdoor recreation opportunities. In addition, the campus is only 1 hour from Fort Collins and 2 hours from Denver, CO.

Requirements: GRE 1200 (verbal + quantitative, 4 writing), GPA 3.0 (BS)/ 3.3 (MS). Closing date: Dec. 10, 2011 (review will begin immediately). Send materials to Dr. Melanie Murphy (melanie.murphy@uwyo.edu). Also complete a departmental application (http://www.uwyo.edu/-renewable/info.asp?p=22152). PhD students are encouraged to apply to the innovative Program in Ecology (www.uwyo.edu/pie), an integrated, interdepartmental PhD program in ecological science. Position starts August 2012.

"Melanie A. Murphy" <mmurph23@uwyo.edu>

Vienna PopulationGenetics

*PhD positions in Population Genetics *

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

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

Available topics include: Probabilistic models for the population genetics of molecular evolution Inferring selection using *Drosophila* whole genome sequence data New algorithm and models to analyze population genetic massive parallel sequence data Experimental evolution in *Drosophila* Evolution of gene expression in *Drosophila* Evolution of transposable elements in *Drosophila* Natural variation in transposable element defense systems Tracing the genomic signature of hybridization between *D. mauritiana * and *D. simulans* 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 selection The nature of differentiation between two closely related species of oak The footprint of adaptive gene introgression after secondary contact

Only full applications (CV, motivation letter, university certificates, indication of the two preferred topics in a single pdf) received by * 08.01.2012* will be considered. Two letters of recommendation need to be sent directly by the referees.

All information about the about the Vienna Graduate School of Population Genetics, 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

VirginiaCommonwealthU AssociationGenetics

The laboratories of Andrew Eckert and Chris Gough, located in the Department of Biology at Virginia Commonwealth University, are recruiting an M.S. level graduate student for a research project examining the genetic basis of photosynthesis and growth related traits in loblolly pine. Our preference is for a student who would ideally begin during the summer of 2012. Work would involve phenotyping hundreds of loblolly pines established in a common garden and carrying out statistical tests for associations between genetic markers and these traits. This interdisciplinary project would be a nice introduction to tree physiology, quantitative and population genetics and association mapping of complex phenotypes. More information about the types of research conducted by the Eckert or Gough labs can be found at http://ajeckert.blogspot.com and http://-www.people.vcu.edu/~cmgough/ . To apply please send the following to Dr. Andrew Eckert (aeckert2@vcu.edu) by December 1st, 2011:

(1) A curriculum vitae

(2) A brief description of your academic and scientific goals

(3) Contact information for at least three references

Please visit the following webpage for information about requirements for the M.S. program at VCU: http://www.has.vcu.edu/bio/graduate/-ms_admissions.html, which has an application deadline of January 15th, 2012.

aeckert2@vcu.edu

WageningenU AvianBehaviourEvolution

PhD position in Behavioural Ecology, Wageningen University, The Netherlands

We offer a PhD Position (1.0 FTE) to undertake research on personality and social networks in great tits within the newly established Behavioural Ecology chair group at the Animal Science Department of Wageningen University, the Netherlands (vacancy number ASG-DW-ETH-0001; the application deadline is 15.12.2011). This position is available within the framework of NWO funded project and will be conducted in close cooperation with the Animal Ecology Department of the Netherlands Institute of Ecology (NIOO-KNAW).

Project details

The aim of the project is to unravel the effects of personality on connectivity and its behavioural and fitness consequences in a social network. Within this project we will measure spatial movements of birds using modern automated tracking techniques in order to determine social network characteristics and their fitness consequences, complemented by playback experiments as short term challenges to a network and by experimental testing of the fitness effects of long-term changes in a network. We will track movements and encounters of a large number of personality-typed great tits (Parus major) during the breeding season. All data collection and experiments will be conducted using a well described colour-ringed population of personality-typed great tits at Westerheide, near Arnhem, the Netherlands. The project is embedded in larger projects on the causes and consequences of animal personality, as well as in broader cooperative projects on movement ecology and wildlife animal tracking.

We ask

- Candidates must have an MSc or equivalent degree in a behavioural ecology or related fields (e.g. Animal Behaviour, Animal Ecology), be enthusiastic about field work, have strong experimental and analytical skills, have good organizational and (written and spoken) communication skills, and a proven ability to collaborate with others, willingness to conduct to organize and extensive ornithological field work, willingness to travel internationally, to attend conferences and visit other institutes, a driver licence and a licence to carry out experiments with vertebrates (i.e. article 9 of the WoD) is a plus

We offer

Employment basis: temporary for specified period; duration of the contract: 1.5 + 2.5 years, maximum hours per week: 38. Additional conditions of employment: To begin with, a PhD appointment for a period of 18 months. Continuation of the appointment with another 30 months will be based on performance evaluation. Gross salary per month EUR 2042 in the first year rising to EUR 2612 per month in the fourth year, based on a full time appointment. Participation in the training program of the Graduate School 'Production Ecology & Resource conservation, see www.pe-rc.nl . An excellent opportunity to develop an international scientific network.

The organization

The successful candidate will join the stimulating and international research environment of Wageningen University. The work will be conducted under supervision of Prof. dr Marc Naguib and in close cooperation with the Department of Animal Ecology of the Netherlands Institute of Ecology (NIOO-KNAW). For further information, please contact Marc Naguib (marc.naguib@wur.nl; +31 (0)317 483856). Links: http://www.wur.nl/uk http://www.zod.wur.nl/UK ; http://www.nioo.knaw.nl/en/node/1061

The application deadline is 15.12.2011

Application You can apply until 15 December 2011. Interviews will take place in early January

Go to the website below for more detailed information and to apply for the position http://www.wur.nl/-UK/work/Vacancies+New To access the advertisement use the link above and enter the vacancy number ASG-DW-ETH-0001 into the "vacancy field". Then follow the further links. Contact Marc Naguib at marc.naguib@wur.nl for or any questions regarding the position or the application procedure.

Prof. Dr. Marc Naguib Department of Animal Ecol-

ogy, Netherlands Institute of Ecology (NIOO-KNAW) Wageningen, The Netherlands, Tel. +31 (0)317-473442 m.naguib@nioo.knaw.nl ; http://www.nioo.knaw.nl/-users/mnaguib note my new address from 1.12.2011 Behavioural Ecology Group, Department of Animal Sciences Wageningen University, De Elst 1, Building 122 6708 WD Wageningen, The Netherlands, Tel. +31 (0)317 483856 marc.naguib@wur.nl

"Naguib, Marc" <M.Naguib@nioo.knaw.nl>

YaleU Biodiversity

PhD Positions in the Jetz Lab

Dept of Ecology and Evolutionary Biology (EEB) Yale University

1-2 fully-funded PhD positions are available in our research group starting fall 2012. We are interested in students with strong research experience who are excited about interdisciplinary work spanning a range of ecological scales. Applicants should have a strong interest in combining theory, data analysis, modeling, and potentially fieldwork to address questions in macroecology, comparative community ecology, community phylogenetics, macroevolution, comparative phylogeography, movement ecology, biodiversity informatics and/or global change ecology. Our preferred study system is terrestrial vertebrates, but work on other groups (including plants) is possible. For ongoing or planned projects in East Africa and Central/South America there are particular opportunities for someone with strong fieldwork experience in birds. There are also opportunities for macroevolutionary and phylogeographic work, e.g. connected with the labs of Tom Near, Michael Donoghue and Gisela Caccone. The student will be integrated in the department's thriving graduate program in ecology and evolution and will be able to interact closely with related programs in the neighboring Yale School of Forestry & Environmental Studies.

RESEARCH GROUP: For further information about the Jetz Lab, see http://www.yale.edu/jetz. There are excellent additional training opportunities in the EEB Department, the Yale Institute for Biospheric Studies (http://www.yale.edu/yibs), the Peabody Museum (both physically connected to the EEB Department), and the Yale Forestry & Environment School - e.g. in GIS and remote sensing, phylogenetics, phylogeography, landscape genetics, climate change science, and more.

APPLICATIONS: For further information see http://-/www.yale.edu/eeb/grad/index.htm and http://-www.yale.edu/graduateschool/admissions/index.html. Applications are due Dec 15, 2011.

"Jetz, Walter" <walter.jetz@yale.edu>

Jobs

EmoryU GenomeEvolution

Dear Colleagues:

We are just beginning our quest for a tenure-track Assistant Professor (or possibly more senior) computationally-oriented scientist working on genome function and evolution, broadly defined. The position will be shared by the Emory University Departments of Biology and Physics. The official Ad with information about how to apply follows. You are welcome to write to me if need more information about this position or relatively unbiased hype about the virtues of Emory and Atlanta.

Check it out.

Bruce

Bruce R. Levin Samuel Candler Dobbs Professor Department of Biology Emory University 1510 Clifton Rd Atlanta, GA 30322 USA 404 727 2826 (Office) 404 727 2956 (Lab) blevin@emory.edu www.eclf.n Emory University Joint Biology/Physics Tenure Track Search Genome Function and Evolution

The Departments of Biology and Physics at Emory University are conducting a joint search for a tenure-track Assistant Professor, in the broad area of genome function and evolution, with the starting date of Fall 2012. Exceptionally well-qualified senior candidates will also be considered. We seek candidates who apply computational, biophysical, or genetic techniques, or combinations thereof, to fundamental questions in genome function and evolution. A PhD or its equivalent in biology, physics, computational sciences or a related field, and a strong publication record are required. The departmental home of the selected candidate will depend on their interests. The successful candidate is expected to establish an independent, internationally recognized, externally funded research program, and to be committed to excellence in teaching at both the undergraduate and graduate levels. Applicants should send a curriculum vitae, a publication list, an outline of current and anticipated near future research, a teaching statement that includes the names and descriptions of the courses they would like to teach and their student assessment philosophy. Submit the names and email addresses of five colleagues, who will be contacted for letters of recommendation. Electronic applications and questions about the search should be sent to bpsearch@emory.edu. Consideration of the candidates will commence on December 15, 2011, and will continue until the position is filled. For more information about Emory University and the Departments, please visit the website http://-www.emory.edu < http://www.emory.edu > . Emory University is an AA/EOE employer. Women and minorities are strongly encouraged to apply.

blevin@emory.edu

InstZool London LabTech BeeEvolution

Institute of Zoology, Zoological Society of London Laboratory Technician in Molecular Ecology. 6 month fixed term contract Starting Salary £16,989 plus £3,554 London weighting

Applications are invited for a laboratory technician with DNA analyses experience to work on a project investigating the biology of a range of bumblebee species, with the aim of estimating the dispersal distance of new queens and the foraging range of worker bees. Experience with microsatellite loci genotyping and scoring, and multiplex assays is required. An interest in social insect biology is desirable. The post is funded for 6 months under the Insect Pollinator Initiative and is available from 1st January 2011. Informal enquires and requests for further details can be directed to Seirian Sumner (Seirian.Sumner@ioz.ac.uk).

Applications, with a covering letter, a current CV and names and full contact details of three referees,

should be sent to Human Resources, Zoological Society of London, Regent's Park, London NW1 4RY (email HR@zsl.org) by 1st December 2011. Interviews will be held mid December

Stephanie Dreier <Stephanie.Dreier@ioz.ac.uk>

KansasStateU WildlifeConservation

I think this ad will be of interest to evolutionary biologists and population geneticists working in terrestrial vertebrate systems.

Thanks for posting.

Ted

ASSISTANT PROFESSOR KANSAS STATE UNIVERSITY WILDLIFE BIOLOGY

The Division of Biology at Kansas State University invites applications for a tenure-track, nine-month position at the Assistant Professor level, beginning in the 2012/2013 academic year. We seek an individual who has a commitment to work with a wide range of constituents and a diverse student body, and who will establish a strong, extramurally funded research program in wildlife biology. The area of research expertise is broadly defined under terrestrial vertebrate ecology or management that will complement current research strengths in the Division and utilize modern tools including molecular techniques. Potential areas of expertise could include; conservation genetics, population biology, community ecology, disease ecology, physiological ecology. A Ph.D. or equivalent at time of appointment is required, and postdoctoral training and teaching experience are desirable. The position includes a competitive salary and start-up package.

The appointee will be expected to participate in undergraduate and graduate teaching, with particular emphasis on our undergraduate wildlife, fisheries and conservation biology curriculum.

A strong group of highly collaborative faculty members with research interests related to wildlife biology are active within the Division. Relevant researchers have active programs in vertebrate ecology, conservation and population biology, population genetics, community ecology and ecosystem ecology; for more information on faculty research interests see www.ksu.edu/-biology/labresearch.html. The Division of Biology is a large and diverse unit with an excellent record of research productivity and funding. In the past year, Division faculty members attracted over $8 million in extramural research support. Relevant faculty members are also found in the Kansas Cooperative Fish and Wildlife Research Unit (www.ksu.edu/kscfwru) within the Division and other administrative entities on campus.

Kansas State University (www.ksu.edu) is located in the city of Manhattan (www.ci.manhattan.ks.us), a pleasant community of about 50,000 individuals in the Flint Hills of north central Kansas, 2 hours from Kansas City. The Konza Prairie Biological Station (www.konza.ksu.edu) is a tallgrass prairie reserve that is the site of an NSF-funded long-term ecological research program. Konza is 6 miles from the University and provides numerous opportunities for ecologically-oriented research activities.

Applicants should submit a comprehensive curriculum vitae, brief statement of research and teaching experience and goals, representative research publications, and have three letters of reference sent electronically to search@ksu.edu. Questions can be referred to: Dr. Keith Gido, Chair; Wildlife Search Committee; Division of Biology; Kansas State University; Manhattan, KS; or by email at kgido@ksu.edu. Review of applications will begin December 15, 2011 and will continue until the position is filled. KSU is an equal opportunity, affirmative action employer, and encourages diversity among its employees. A background check is required.

Theodore Morgan Division of Biology Kansas State University 116 Ackert Hall Manhattan, KS 66506 office: 785.532.6126 molecular lab: 785.532.6074 fly lab 785.532.6416 fax: 785.532.6653 Email: tjmorgan@ksu.edu www.ksu.edu/morganlab iChat A/V: theodore_morgan@MAC skype: morganlab.ksu

tjmorgan@ksu.edu

Mexico FunctionalGenomics

Spanish version:

INSTITUTO DE ECOLOGÃA, UNAM CONVOCATORIA A PLAZAS DE INVESTIGADOR DE TIEMPO COMPLETO 4 de noviembre 2011

El Instituto de EcologÃ'a (IE), UNAM (www.ecologia.unam.mx) convoca a las personas que reÃonan los requisitos de la presente convocatoria, a participar en el concurso para ocupar por obra determinada tres plazas equivalentes a Investigador de

tiempo completo, de acuerdo con las siguientes

Bases: a) Tener grado de doctor y experiencia posdoctoral b) Haber trabajado cuando menos tres aÃ±os en labores de investigaciÃ³n y docentes en las diferentes Ãreas de la ecologÃ'a moderna. Se darÃ preferencia a quienes trabajen aspectos teÃ³ricos y empÃ'ricos, relacionados con investigaciÃ³n en: Ecosistemas, genÃ³mica y ecologÃ'a funcional, biogeoquÃ'mica, papel de los micro-organismos y sus efectos sobre el ambiente y el clima, modelos a largo plazo, cambio climÃtico; AdaptaciÃ³n, relaciones gen-fenotipo y su importancia ecolÃ³gica, epigenÃ©tica ecolÃ³gica, ecologÃ'a evolutiva del desarrollo, evolvabilidad, bioinformÃtica; Sostenibilidad, resiliencia, restauraciÃ³n y conservaciÃ³n, biorremediaciÃ³n, monitoreo a largo plazo, manejo de poblaciones y ecosistemas, enfermedades emergentes, especies invasoras, biodiversidad. c) Haber publicado trabajos en revistas cientÃ'ficas internacionales y demostrar experiencia docente d) Hablar el idioma espaÃ±ol, de manera suficiente que les permita impartir clases frente a grupo.

Prueba: 1) Elaborar un proyecto de investigaciÃ³n en su lÃ'nea de trabajo, en el que se incluyan sinergias entre las Ãreas de especialidad indicadas en el inciso b). 2) Elaborar un plan de trabajo donde se describan las actividades de investigaciÃ³n y docencia proyectadas para tres aÃ±os, asÃ' como de trabajo en colaboraciÃ³n con miembros del Instituto de EcologÃ'a.

DocumentaciÃ³n requerida: 1. Carta de intenciÃ³n dirigida al director del instituto, Dr. CÃ©sar DomÃ'nguez PÃ©rez Tejada 2. Curriculum vitae con documentaciÃ³n probatoria (publicaciones cientÃ'ficas y tesis dirigidas) 3. DescripciÃ³n breve de intereses actuales y futuros en investigaciÃ³n 4. Propuesta de investigaciÃ³n y plan de trabajo 5. TÃ'tulo de doctorado 6. Acta de nacimiento

Los interesados deberÃn enviar la documentaciÃ³n a la Secretaria AcadÃ©mica (secacad@ecologia.unam.mx & direccion@ecologia.unam.mx), entre el 4 y el 30 de noviembre de 2011, en horario de 10:00 a 15:00 horas (horario central de MÃ©xico). Los documentos pueden enviarse inicialmente vÃ'a electrÃ³nica (pdf) y posteriormente de forma impresa. DirecciÃ³n de correo: Instituto de EcologÃ'a, UNAM, Ap. Postal 70-275, Ciudad Universitaria, MÃ©xico DF, CP 04510, MÃ©xico.

Proceso de selecciÃ³n: 1. El Consejo Interno de IE harÃ una primera selecciÃ³n de los candidatos basÃndose en los mÃ©ritos acadÃ©micos, el proyecto de investigaciÃ³n y el plan de trabajo. 2. Los candidatos que pasen a la segunda fase serÃn invitados a dar un seminario de contrataciÃ³n y a entrevistarse con los miembros de la comunidad acadÃ©mica. 3. Con estos elementos el Consejo Interno darÃ a conocer el resultado final a los tres candidatos seleccionados.

English version:

FULL TIME RESEARCHER POSITIONS AT THE INSTITUTE OF ECOLOGY, NATIONAL AUTONOMOUS UNIVERSITY OF MEXICO 4 November 2011

The Instituto de EcologÃ'a (IE), UNAM (www.ecologia.unam.mx), invites applications for three faculty position openings equivalent to Full Time Researcher.

Candidates must have: a) a PhD degree and postdoctoral experience. b) at least three years of research and teaching experience in different areas of Modern Ecology. Preference will be given to those working theoretical and empirical aspects in the following areas of research: Ecosystems, functional genomics and ecology, biogeochemistry, role of microorganisms and their effects on environment and climate, long-term modeling, climate change; Adaptation, gen-phenotype relationships and their ecological importance, ecological epigenetics, evolutionary ecology of development, evolvability; bioinformatics; Sustainability, resilience, restoration and conservation, biorremediation, long-term monitoring, population and ecosystems management, emergent diseases, invasive species, biodiversity. c) scientific publications in international journals and teaching experience. d) sufficient knowledge of the Spanish language in order to perform teaching activities.

Test: 1) To elaborate a research project on his/her line of research, which should include synergies among

— / —

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MidwesternStateU VertebrateEvolBiol

Assistant Professor Vertebrate Field Biologist Midwestern State University

Midwestern State University is a public liberal arts university and a member of COPLAC. Located midway between Dallas, Texas and Oklahoma City, Oklahoma, MWSU enrolls nearly 6,500 undergraduate and Masters

degree seeking students.

Position: The Department of Biology invites applications for a tenure track appointment as assistant professor beginning Fall 2012. The successful candidate will 1) teach 12 hours per semester (including introductory zoology, upper level vertebrate zoology, and a graduate course to be developed); 2) maintain a program of research with a strong field component that provides opportunities for active undergraduate and master's student involvement; 3) participate in service to the university and 4) collaborate with a highly interactive department faculty.

Application Procedure: To be considered, applicants must submit the following documents electronically to William Cook, Faculty Search Committee Chair at william.cook@mwsu.edu: 1) cover letter; 2) current CV; 3) statement of teaching and mentoring philosophy and experience; 4) statement of research interests, accomplishments and plans including consideration of the balance between teaching and research at a primarily undergraduate public liberal arts institution; 5) names and contact information for at least three references; 6) unofficial transcripts (official transcripts will be required upon hire). Review of applications will begin December 1, 2011 and continue until the position is filled.

Qualifications: Qualified applicants must hold the Ph.D. in Zoology or a related discipline. Preference will be given to candidates with postdoctoral training or a significant publication record and experience teaching at the college level. The successful candidate will have a strong record of training and research in vertebrate zoology and expertise in field research including familiarity with field ecology practices. Candidates interested in curating the department's large mammal collection will be given strong consideration. Effective verbal and written communication is important.

Salary will be competitive and commensurate with qualifications and experience.

This position is designated as security sensitive and requires the finalist to complete a criminal background check. ADAAA/EEO Compliance Employer.

william.cook@mwsu.edu

NewMexicoStateU Outreach Educator

Please post the position below as NMSU-HHMI.ScienceEducation.Outreach thank you

Title Mgr, Lab Instruction

Position Classification Code R3015; Requisition # 0600110

POSITION SUMMARY: The major purpose of this position is to travel though out the state of New Mexico with the portable molecular biology laboratory to introduce high school students to basic molecular biology techniques.

KEY DUTIES AND RESPONSIBILITIES: * Develop and implement outreach activities targeted to NM high school science students and teachers. * To interface with high school science teachers and their students as part of the outreach efforts of the HHMI-NMSU Program and assist with programmatic assessment and dissemination. * Assist with summer outreach activities directed toward providing high school science teachers with an increased knowledge of molecular biology skills and techniques. * Maintain strong working relationships with program participants including high school science teachers. * Supervise, direct, and evaluate work of program participants. * Statewide travel is required. * Performs related duties as required.

QUALIFICATIONS:

Knowledge of: Genomics and bioinformatics; genetic and molecular genetics techniques, including PCR, DNA isolation, restriction enzyme digests, gel electrophoresis and DNA sequencing.

Skills in: Short-and long-range planning; problem analysis and resolution; oral and written communication; creation and management of spreadsheets; public contact and relations especially with high school science teachers and their students; teaching experience and expertise at the high school or higher education level; molecular biology laboratory techniques; familiarity with genomics.

Ability to: Qualify for NMSU drivers license; Direct, evaluate, train, and supervise the work of program participants; develop and maintain effective working relationships with high school teachers and NMSU faculty and staff; maintain accurate and orderly records; use independent judgment and initiative; organize and direct activities; analyze and evaluate information; travel extensively.

REQUIRED EDUCATION AND EXPERIENCE: * Masters degree in biology, biochemistry, molecular biology, microbiology or related field. * Three (3) years related experience.

Required Applicant Documents Supervisor and De-

partmental Contact: Dr. Ralph Preszler, rpreszle@nmsu.edu Associate Professor of Biology and Program Director of NMSU-HHMI, Department of Biology, New Mexico State University.

Letter of Interest; Resume of CV; Three References with Contact Information Applicants will need to fill out an electronic application and attach required documents at https://jobs.nmsu.edu Review of applications will begin on November 15, 2011 and applications received after this date may be considered. Salary Range $41,000 to $52,000. Position is contingent on external funding.

New Mexico State University is an equal employment opportunity/affirmative action employer. Offer of employment is contingent upon verification of individuals eligibility for employment in the United States and upon the availability of external funding.

Christin Slaughter NMSU HHMI Outreach Coordinator Access to Science Center Department of Biology MSC3AF New Mexico State University PO Box 30001 Las Cruces, NM 88003-8001 575-646-2175 hhmi_asc@nmsu.edu

Christin Slayghter Biology <hhmi_asc@nmsu.edu>

OhioU ResTech Systematics

I seek a highly motivated individual to join the lab of Dr. Shawn Kuchta in the Department of Biological Sciences at Ohio University, in Athens, OH. In this lab we work on molecular systematics of amphibians, reptiles, and odonates, including population genetic, phylogeographic, and phylogenetic studies. Applicants should have experience with PCR and DNA sequencing, including the development of primers for novel nuclear loci. Responsibilities include data collection, database entry, training of undergraduates, general laboratory maintenance, and other related tasks.

This is a 1 year position with a possible 1 year extension. The start date is negotiable, but January or February 2012 is the goal. The salary is $33,000/year, and includes benefits. Athens, Ohio is located in southeastern Ohio. It is a small college town embedded within a lovely Appalachian landscape. The cost of living is low.

Requirements: Bachelor's degree minimum (Masters, or even Ph.D. preferred) in a relevant field, such as Biological Sciences, Molecular systematics, or Genetics. Demonstrated research experience in molecular research (especially systematics) is critical. Skills in genomics or GIS would be a benefit.

Ohio University is committed to creating a respectful and inclusive educational and workplace environment. Ohio University is an equal access/equal opportunity and affirmative action employer with a strong commitment to building and maintaining a diverse workforce. Women, persons of color, persons with disabilities, and veterans are encouraged to apply.

Apply at: https://www.ohiouniversityjobs.com/-postings/1910 .The application includes a cover letter, CV, and 3 reference letters.

Shawn Kuchta, Assistant Professor Life Science Building 233 Dept. of Biological Sciences Ohio University Athens, OH 45701

http://www.ohio.edu/people/kuchta/
kuchta@ohio.edu

SaudiaArabia LabTech NGS

We are looking for a highly motivated, independent but team-oriented laboratory technical with a strong expertise in the preparation of Next Generation Sequencing libraries for the Illumina, 454, and SOLID platforms.

The successful candidate will join the Group of Prof. Christian R. Voolstra at the Red Sea Research Center of the King Abdullah University of Science and Technology (KAUST) and will be mainly responsible for the generation of high quality sequencing libraries from marine samples. This also includes the development, adaptation, and improvement of methods as well as validation of new procedures. Since the work with non-model organisms and difficult samples often requires the modification of existing protocols, we highly encourage experienced applicants with a proven molecular biology background and strong problem solving skills.

Job description:

conduct sample preparation, quantification, and quality control Generate high quality sequencing libraries (PE and MP libraries) for genomic DNA, RNA-seq, small RNAs (Illumina, 454, SOLID) Quality assessment of respective libraries (qPCR) Analyze current process procedures and provide feedback for their optimization and improvement Consult on research projects with our in-house sequencing core facility Documenting processes and improvements to methods Develop, assess,

and adapt new technologies, protocols, and software Conduct other laboratory work as needed Contribute to the writing of project proposals and manuscripts describing the methodology

Requirements:

Completed education as a laboratory technician (Federal Certificate of Capacity, BSc or MSc) in Molecular Biology, Biotechnology, Biochemistry or related field plus laboratory experience in nucleic acid research >1 year of experience with Next Generation Sequencing library construction (preferentially Illumina and/or 454) sound knowledge of molecular biology methods, protocols, and equipment (including RNA and DNA preparation, RNA and DNA quantification, PCR, qPCR and bead-based technologies). Familiarity with Microsoft Word, Excel, and PowerPoint English proficiency Experience with bioinformatics analysis is a plus

KAUST is a dynamic new university campus and campus community in Saudi Arabia that opened in September 2009. The campus is located directly at the Red Sea, near Jeddah. More information is available at www.kaust.edu.sa. The position package includes a competitive base salary ($40k-$50k) as well as a benefits package that is further defined depending on applicants experience and duration of contract.

To apply: Please send cover letter summarizing your qualifications and interests, a curriculum vitae, and the names and contact information for 2 references to christian.voolstra@kaust.edu.sa and manuel.aranda@kaust.edu.sa. Applications that do not fulfill requirements outlined above will not be considered.

posting date: November 15, 2011 / closing date: December 20, 2011

"Christian R. Voolstra" <christian.voolstra@kaust.edu.sa>

Smithsonian ResAssist ButterflySpeciation

Research Assistant to study butterfly speciation in the tropics We seeking a research assistant to work at the Smithsonian Tropical Research Institute in Panama between January 2012 and January 2013. Our research focusses on speciation in Heliconius butterflies (for more information please see http://-heliconius.zoo.cam.ac.uk/). The assistant will be responsible for breeding butterflies, crossing experiments and behavioural assays to investigate the genetic basis of divergent mate preferences between two sympatric Heliconius species. Applicants must be able to work independently and be prepared to commit to spending considerable time at the project site. A knowledge of Spanish would be useful but not essential.

A stipend of US$800/month will be provided to cover accommodation and living costs at the field station in Panama .

Please send applications, or further questions, to Richard Merrill (r.merrill@zoo.cam.ac.uk) with a CV and the names and contact details of two referees. Please use the subject header: "PANAMA RESEARCH ASSISTANT" before 21st November 2011.

Richard Merrill Junior Research Fellow King's College, Cambridge

Butterfly Genetics Group Department of Zoology University of Cambridge Tel: (+44)(0)1223 336644 Email: r.merrill@zoo.cam.ac.uk Web: http:/-/heliconius.zoo.cam.ac.uk/2009/richard-merrill/ rmm60@hermes.cam.ac.uk

Syracuse InvertConservation

Assistant Professor in Invertebrate Conservation Biology

Job Description: The State University of New York College of Environmental Science and Forestry (SUNY-ESF) in Syracuse invites applications for an academic-year, tenure-track position as Assistant Professor in Conservation Biology, specializing in invertebrates.

Responsibilities: The successful candidate will be expected to build a strong, extramurally funded research program in the conservation of invertebrates. Teaching responsibilities will include two undergraduate courses (Invertebrate Zoology and Principles of Evolution), and one graduate course within area of expertise. Advising responsibilities will focus on undergraduate, M.S., M.P.S., and Ph.D. students in the Conservation Biology major and graduate area of study. Collaboration is expected with colleagues in other disciplines at the College and the broader academic community for delivering research and teaching programs. Expectations for service include to the College and Department and outreach to groups such as state and federal agencies, non- governmental organizations, professional societies

and the public.

Requirements: A Ph.D. in Biology or a related discipline is required. Qualified candidates must demonstrate a primary interest in invertebrate systematics, phylogenetics, bioinformatics, and/or evolutionary ecology as a means of furthering invertebrate conservation. Preference will be given to candidates with evidence of ability to mentor undergraduate and graduate students, postdoctoral experience and a record of excellence in research, teaching and outreach, commensurate with time since degree.

Additional Information: The College and the Faculty: The College of Environmental Science and Forestry is a PhD-granting institution with one of the largest groupings of faculty dedicated to solving environmental problems through research, teaching and service. SUNY-ESF is one of the leading institutions in per-capita research funding among the 64-campus SUNY system. With a total enrollment of about 1,200 undergraduates and 600 graduate students, ESF provides an intimate small-college atmosphere with a low student/faculty ratio. Integration of research and teaching is emphasized and advanced undergraduate students regularly work with graduate students and faculty mentors. Conservation Biology is part of a larger Department of Environmental and Forest Biology (www.esf.edu/efb), a group of over 30 scientists from a variety of ecological and biological disciplines. Conservation Biology includes 150 undergraduate and 33 graduate students at the M.S. M.P.S., and PhD levels. The College is on the same campus as Syracuse University and near Upstate Medical University, giving students and faculty the added resources of a large institution of higher education, including a wide array of courses, computer and library facilities, intercollegiate and intramural sports, and health services.

ESF's field stations and properties are diverse and total over 10,000 hectares in northern and central New York (http://www.esf.edu/campuses). These facilities include the Huntington Forest and associated Adirondack Ecological Center (www.esf.edu/aec), the Cranberry Lake Biological Station (www.esf.edu/clbs) in the Adirondack Mountains, the Heiberg Forest south of Syracuse, the Thousand Islands Biological Station on the St. Lawrence River (www.esf.edu/tibs) and others. These properties provide opportunities for research and teaching for faculty and graduate students.

In accordance with the "Jeanne Clery Disclosure of Campus Security Policy and Campus Crime Statistics Act" institutions of higher education are required to prepare an annual report containing information on campus security policies and campus statistics. This report includes statistics for the previous three years concerning reported crimes that occurred on-campus; in certain off-campus buildings or property owned or controlled by SUNY-ESF; and on property within, or immediately adjacent to and accessible from the campus. The report also includes institutional policies concerning campus security, such as policies concerning sexual assault, and other matters. You can obtain a printed copy of this report by contacting SUNY-ESF University Police at 315-470-6667 or by accessing the following web site: http://www.esf.edu/-univpolice/crimereports/2010Syr.pdf Application Instructions: Applications should include a letter summarizing qualifications as well as a statement of research interests and accomplishments, curriculum vitae, a statement of teaching experience and philosophy. Send three references directly to Dr. Stephen Teale at address below. To ensure

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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

TexasAMU WildlifeConservation

Texas A&M University *Professor and Head Department of Wildlife and Fisheries Sciences*

Applications are invited for the position of Professor and Head for the Department of Wildlife and Fisheries Sciences. As an administrative unit of the College of Agriculture and Life Sciences, Texas AgriLife Research and Texas AgriLife Extension Service within The Texas A&M University System, the Department of Wildlife and Fisheries Sciences has a diverse and dynamic mission with 42 faculty and 19 staff members engaged in teaching, research, and extension at several locations throughout the state, nation, and world. Departmental facilities include the Texas Cooperative Wildlife Collection, Aquatic Research and Teaching Facility, Biosystematics and Biodiversity Center, Small Upland-bird Research Facility, Ecological Systems Laboratory, and the Land Information Systems Laboratory. Department personnel are based mostly in College Station but also at affiliated institutions and several research and extension centers across the state. The Department currently enrolls approximately 400 undergraduates and approximately 200 graduate students in M.S.

or Ph.D. programs. The Department conducts research in five general areas: Aquatic Ecology and Fisheries Science; Conservation Biology; Ecology, Evolutionary Biology and Systematics; Marine Mammal Biology; and Wildlife Ecology, Conservation and Management. The Wildlife and Fisheries Extension Program is the largest in the nation and has been nationally recognized for its expertise in the areas of wildlife, fisheries, aquaculture, marine science, related enterprises, youth and adult education, and spatial technologies for natural resource management. More information can be obtained at http://wfsc.tamu.edu/ The successful candidate will have a Ph.D. and record of distinction in wildlife and fisheries conservation, ecology and evolutionary biology, aquaculture or related field. The candidate's record should demonstrate effective leadership and management of multidisciplinary programs, and familiarity with and appreciation of basic and applied research, teaching, extension, and service missions. The candidate should possess outstanding leadership skills as well as demonstrated success in communicating effectively with diverse clientele and stakeholders. Prior experience in the Land Grant University System is desirable.

Applications should be sent in electronic format (preferred) to gdr@tamu.edu. Applications should include a letter of interest, statement of administrative philosophy, curriculum vitae, and the names and contact information for at least three references. References will be contacted only upon approval by the applicant. Review of applications will begin January 1, 2012, and continue until the position is filled.

The Texas A&M University System is an Equal Opportunity/Affirmative Action Employer. The University is committed to building a culturally diverse and pluralistic faculty and staff and strongly encourages applications from women, minorities, individuals with disabilities, and covered veterans.

Jessica E. Light Assistant Professor and Curator of Mammals Department of Wildlife and Fisheries Sciences Texas Cooperative Wildlife Collection Texas A&M University 210 Nagle Hall, 2258 TAMUS (mailing) 320A Heep Laboratory Building (office) College Station, TX 77843 Phone: 979-458-4357 Fax: 979-845-4096 email:jlight2@tamu.edu http://people.tamu.edu/-˜jlight2 jlight2@tamu.edu

TromsuUMuseum Biosystematics

Researcher in Biosystematics, Tromsø University Museum

Application deadline: 10.11.11 The following reference number must be quoted in your application: 2011/4579

The University of Tromsø has vacant a researcher position in Biosystematics. The period of appointment is until 31 December 2014.

The position is attached to Tromsø University Museum, Department of Natural Sciences

For further information, please contact project leader Inger Greve Alsos, e-mail: inger.g.alsos@uit.no or head of Department of Natural Sciences, Arne C. Nilssen, e-mail: arnec.nilssen@uit.no, tel + 47 77 64 50 00.

The Department of Natural Sciences presently employs 25 staff members, including 10 permanent scientific positions and 5 PhD students (http://uit.no). The department has large scientific collections, documenting more than 130 years of research in North Norway and other northern regions. The department includes a research group in taxonomy and biodiversity. The group focuses on diversity, phylogeography, and taxonomy of northern organism using molecular as well as traditional methods.

The position is associated with the Norwegian-Swedish Research School in biosystematics, ForBio (cf. http://-www.nhm.uio.no/english/research/forbio/). ForBio is a teaching and research initiative coordinated by the Natural History Museum (University of Oslo), Bergen Museum (University of Bergen), Tromsø University Museum (University of Tromsø) and the Museum of Natural History and Archaeology (Norwegian University of Science and Technology). ForBio is funded by the Norwegian Taxonomy Initiative and the Research Council of Norway. ForBio is part of the Ministry of Education and Research's commitment to Norwegian university museums and the Ministry of Environment's commitment to increased knowledge of the Norwegian biodiversity.

The position involves 50 % research and 50 % teaching and administration at the Research School. The successful candidate will work strategically and practically with the development of ForBio, and teach on theoretical and/or field courses offered through this research school. The development of the Research School will take place in cooperation with representatives of the other Norwegian university museums, and it is an advantage that the successful candidate has experience in developing and/or management of research and development projects.

For full advertise, see http://www.jobbnorge.no/-

job.aspx?jobid=78253 Sincerely yours, Inger Greve Alsos

Assoc. Prof. Inger Greve Alsos Tromsø University Museum NO-9037 Tromsø Norway

Telephone: +47 77 62 07 96 Telefax: +47 77 64 51 05 Email: inger.g.alsos@uit.no http://www.svalbardflora.net/ Alsos Inger Greve <inger.g.alsos@uit.no>

TulaneU Bioinformatics

The Department of Biostatistics and Bioinformatics at the Tulane University School of Public Health and Tropical Medicine is seeking applications for two tenure-track faculty positions at the levels of associate/assistant professors. These two positions have particular emphasis on the interface of Biostatistics and Bioinformatics and the development and application of quantitative methods for high-throughput biological data analysis. Areas of interest include: genomics, proteomics, epigenomics, informatics, computational biology, statistical genetics, and biostatistical theory. Candidates with an area of interest in molecular evolution with application to human genetics are also welcomed to apply.

Responsibilities associated with these positions include statistical methodology and collaborative research, teaching, and the supervision of graduate students. We offer a supportive environment for faculty to participate in funded studies or develop new projects, in cooperation with research centers and other departments at the Health Sciences Campus.

Qualifications include a doctoral degree in biostatistics, statistical or quantitative genetics or a closely related field; strong record of or high potential for methodological research; skills in computer programming; intent and ability for scientific collaborative research and graduate level teaching; excellent oral and written communication skills. Candidates for associate professor should have an established record of funded research, collaboration, and teaching.

Salary and rank will be commensurate with experience. A letter summarizing experience and research interests, and a complete curriculum vitae including contact information for three references should be sent to: Susan Gautier at sgautie_at_tulane.edu. Applicants at the assistant professor level should also provide graduate level transcripts. Applications will be accepted until the positions are filled.

jli8@tulane.edu

UBern FieldAssist BirdEvolution

Expenses-paid field assistant positions to study evolution of family living and cooperative breeding in birds in Spain

We are seeking applicants for field research volunteers for the upcoming breeding season to join our field project investigating the evolution of family living and cooperative breeding in birds. The research is conducted in Andalusia, southern Spain. Starting dates range from the end of February to the middle of March and work will continue through June.

Our project researches the shifts in parental investment patterns in pair living, kin-group living and cooperatively breeding birds. The project is based at the University of Bern, Switzerland (PI Michael Griesser, PhD students Emeline Mourocq & Gretchen Wagner).

The work of the volunteers will consist of carrying out field experiments, locating nests, assisting the PhD students with catching and ringing birds, behavioral observations and data management. This work will give insight into experimental fieldwork and is carried out in scenic semi-arid habitats of southern Spain. We work all day, 5-6 days per week, in the field depending on the workload. Observe that temperatures at the beginning of the field season can be below 0ÆC, and later in the breeding season be easily above 35ÆC. The work can be physically strenuous at times.

Qualifications: (1) BSc or higher in Biology or similar qualification (2) Ability to work and live in small groups and sociable personality (3) Fluent in English (4) Previous field experience a plus (5) Knowledge in observing & handling birds is a plus (6) Driving license is helpful (7) Basic knowledge of Spanish is helpful

These are expenses-paid field assistant positions, covering accommodation, food and travel expenses of up to 300æ to and from the study site.

Applications - including a CV, a letter of motivation (1 pg.) and the name of two referees - should be send to both:

Emeline Mourocq: emeline.mourocq@iee.unibe.ch and Gretchen Wagner: gretchen.wagner@iee.unibe.ch

Please use Volunteer Field Assistant Position in Spain± as the subject and note your availability during this time period in the body of the e-mail. Applications received until 1st January 2012 will be given full consideration.

For further information on the project, see:
http://www.iee.unibe.ch/content/staff/griesser
http://www.iee.unibe.ch/content/staff/gwagner
http://www.iee.unibe.ch/content/staff/mourocq
gretchen.wagner@iee.unibe.ch

UBern FieldAssist SwedishLapland

Expenses paid field assistant positions to study life-history evolution in Siberian Jays in Swedish Lapland

For the upcoming field season (from March to the end of July 2012) we are looking for highly motivated expenses paid field volunteers to join our field project investigating life-history evolution in Siberian jays (Perisoreus infaustus). The study population is located near Arvidsjaur, Swedish Lapland.

Our current project investigates the influence of dispersal timing and female quality on the evolution of life-history strategies. The project is jointly driven by Michael Griesser (University of Bern, Switzerland), Prof. Jan Ekman (Uppsala University, Sweden), and Joanna Sendecka (Uppsala University, Sweden).

The work of the field volunteers will be to help in field experiments, behavioural observations, following radio-tagged birds, and data management. This work will give insight into exciting experimental fieldwork and will be carried out partly in managed forests and partly in scenic pristine boreal habitats. We will work 5-7 days per week in the field depending on the workload of the experiments. Days in the field can be long in particular around midsummer when following dispersing individuals. Observe that temperatures in the beginning of the season can be as low as -30C. The work is physically strenuous at times in particular during the snow melting period.

Assistants can apply for either the whole season, or from March-mid May, and from mid-May-July. Assistants working from March to May will be doing most of the fieldwork on X-country skis, and given that only the edge of the study site is accessible by car, we ski up to 20km per day. Thus, a previous knowledge of X-country skiing is helpful, but not required.

Qualifications: (1) BSc/MSc in Biology, Ecology or similar qualification (2) Previous field experience (3) Ability to work in small teams and sociable personality (4) Knowledge in observing & handling birds is a plus (5) Driving license would be helpful (6) Fluent in English

We will cover for the accommodation, travel expenses from and to the study site (up to 300 Euros) as well as the living expenses.

SPECIFY CLEARLY FOR WHICH WORK PERIOD YOU APPLY.

Applications - including a CV, a letter of motivation (1 page) and the name of two referees - should be send to:

michael.griesser@iee.unibe.ch

Applications received until 3dr January 2012 will be given full consideration.

Michael Griesser Institute for Ecology and Evolution University Bern Baltzerstrasse 6 3012 Bern Switzerland

http://www.iee.unibe.ch/content/staff/griesser/-index_eng.html

Michael.Griesser@slu.se

UCalifornia Berkeley WildlifeEvolution

Please post this ad for a lecturer in the Department of Environmental Science, Policy and Management at UC Berkeley. Although the course is Wildlife Ecology, we're certainly interested in considering evolutionary biologists as potential instructors.

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Lecturer, Wildlife Ecology Department of Environmental Science, Policy, & Management University of California, Berkeley

The Department of Environmental Science, Policy, & Management at the University of California, Berkeley seeks applications for a part-time Lecturer to teach ESPM 114, Wildlife Ecology, during the Spring 2012 semester. The course lecturer delivers two hours of lecture each week and oversees four GSIs who handle eight, one-hour discussion sections per week. The lecturer also holds weekly office hours. This position is scheduled to begin January 1, 2012 through May 31, 2012.

Course Description: This course provides an introduc-

tion to wildlife ecology and includes population, community, and ecosystem levels of organization. Specifically, the course introduces students to basic concepts and applications in physiological ecology, niche theory, population dynamics, population estimation, metapopulation and community ecology, trophic webs and a range of special topics including invasive species, wildlife disease, landscape ecology and wildlife policy. Students are evaluated on their performance on three projects, three exams and their preparedness for discussion section.

Position requirements: Candidate should have Ph.D. in ecology or related field with teaching experience and strong professional references. The primary responsibilities for this position include:

Delivering lectures Planning and preparing lessons, including: researching and developing new topics, courses and teaching materials and online resources, developing materials for the student discussion, and developing materials for discussion sections taught by GSIs Supervising four to five graduate student instructors Holding office hours Developing exams and projects, and grading them (or supervising GSIs in the marking) Maintaining accurate records and monitoring students' progress, as well as addressing any special student needs Maintaining knowledge of, and implementing, college policies Salary: Commensurate with qualifications and experience (starting annual, full-time salary is $44,636)

Applicants should submit a letter of application, curriculum vitae, statement on teaching philosophy and experience, along with the names and contact information of three references to: http://-ecnr.berkeley.edu:80/sReg.php?i 2. The deadline for applications is December 19, 2011.

This is a non-tenured, temporary position: the appointments to the title of Lecturer are self-terminating (no further notice on non- reappointment will be forthcoming) and do not create an obligation on the part of the University either to extend or renew the appointment outlined above. Any reappointment will be preceded by an assessment. Employment is contingent upon proof of eligibility to work in the United States.

The University of California is an equal opportunity affirmative action employer, committed to excellence through diversity. The College seeks candidates whose research, teaching, or service has prepared them to contribute to our commitment to diversity and inclusion in higher education.

Neil D. Tsutsui Associate Professor Vice Chair for Instruction Department of Environmental Science, Policy & Management University of California, Berkeley Berkeley, CA 94720-3114

Mail:130 Mulford Hall, #3114 Office: 326 Hilgard Hall Lab: 3 & 245 Hilgard Hall Email: ntsutsui@berkeley.edu Phone: 510-642-9012 Fax: 510-643-5438

Neil Tsutsui <ntsutsui@berkeley.edu>

UCalifornia Merced 3 SystemsBiol

Three Professorships in Biology, and One Lectureship in Biology University of California, Merced

The School of Natural Sciences at the University of California, Merced seeks applicants for four faculty positions: Ecology (Full or Associate with tenure, or Assistant tenure-track), Systems Biology (Assistant tenure-track), and Biostatistics (Assistant tenure-track), and one tenure-track Biology Lecturer. For the Ecology position, we seek outstanding individuals with research interests in any ecological field using experimental, field, computational, and/or theoretical approaches and working at population to global scales. The Systems Biology position includes research areas that use comprehensive datasets and multiple types of analysis to relate overall biological function to underlying biochemical or biophysical processes for predictive understanding. The Biostatistics research areas of interest include statistical methods for experimental design, epidemiology, medical informatics, evolutionary biology, sequence bioinformatics, genomics, evolution of microbial systems and pathogens, and systems biology. The Lecturer position closely parallels a tenure-track Assistant Professor but with an emphasis on undergraduate education. All applicants must be able to teach effectively at both undergraduate and graduate levels. For more information and to apply go to: http://-jobs.ucmerced.edu/n/academic/listings.jsf;jsessionid=-3D95FADBAFFF4C13F912A3B023DA4F1F80?seriesId=1 Interested applicants should submit materials online. Applications will be considered starting December 1, 2011. UC Merced is an AA/EOP employer.

Michael Dawson email: mdawson@ucmerced.edu

dawson.mn@gmail.com

3Ddavid_hosken D.J.Hosken@exeter.ac.uk

UExeter EvolutionaryBiology

We are seeking three dynamic researchers to join our thriving team in the Centre for Ecology and Conservation (CEC). The CEC is based on Exeter's Cornwall Campus and is home to an outstanding group of whole organism biologists, with world leading research in conservation, ecology and behavioural, evolutionary, and molecular ecology. Our aim is to further link these and other research areas and develop multidisciplinary research programmes within the Centre and more broadly. We form part of Exeter's Bioscience team, which is a large discipline working from genes to cells to organisms to ecosystems. We are looking for three motivated, high quality researchers to complement our current CEC team and the staff at the Environment and Sustainability Institute, also on the Cornwall Campus.

Successful applicants will hold a PhD and have an independent, internationally-recognised research programme in evolutionary genetics, conservation, or another area of biology related or complementary to existing Exeter strengths. A combination of the above with a strong molecular genetic focus would be advantageous. Appointees will be able to demonstrate the following qualities and characteristics; a strong record in attracting research funding, or demonstrable potential to attract such funding; a strong publishing record; enthusiasm for 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 within the Centre for Ecology and Conservation and out to the newly developed Environmental Sustainability Institute and to Biosciences as a whole. A commitment to delivering an excellent educational experience for students at undergraduate and postgraduate level is essential.

Flexible working arrangements are available. For further information please contact Professor David Hosken (d.j.hosken@exeter.ac.uk)

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=-

UGlasgow VirusEvolution

Medical Research Council âUniversity of Glasgow Centre for Virus Research

Research Fellow in Virus Research (4 years)

We are seeking to appoint an outstanding research scientist to enhance the activities of the newly formed MRCâUniversity of Glasgow Centre for Virus Research (CVR) (http://www.cvr.ac.uk/). The CVRâs mission is to carry out multidisciplinary research on viruses and viral diseases of humans and animals, utilising the knowledge gained for the improvement of human and animal health. For this specific post, we are seeking research scientists interested in developing an independent research programme in any area of human virology, or virology at the humanâanimal interface, complementing the research programmes of the CVR. Expertise of the candidate can be in any field of virology including molecular virology, clinical virology, viral epidemiology, viral evolution and phylogenetics, viral immunology, as well in bioinformatic or mathematical modelling approaches applied to any of these fields.

Excellence of research is key for this post and the successful candidate will be provided with substantial resources to support her/his research programme before obtaining independent research funding.

The Centre for Virus Research (CVR) (http://-www.cvr.ac.uk/) is a unique international research centre with a critical mass of researchers dedicated to the multidisciplinary study of human and animal viruses. The CVR represents a partnership between the Medical Research Council and the University of Glasgow. It has allowed the integration of research groups involved in virology research from the University of Glasgow and the MRC Unit for Virology under a single management umbrella. The CVR will be located in a new research building in the Garscube campus of the University of Glasgow and is a core component of the newly established Institute of Infection, Immunity and Inflammation within the College of Medical, Veterinary & Life Sciences at the University of Glasgow.

Closing date for applications: 25 November 2011

To download the details and submit an electronic application online visit: www.gla.ac.uk/about/jobs/ and look for Job Reference number 000817

For further information please visit http://-www.cvr.ac.uk/. Informal enquiries should be directed to Professor Massimo Palmarini (massimo.palmarini@glasgow.ac.uk)

UManchester EvolutionaryBiol

The Faculty of Life Sciences at the University of Manchester has four posts available in the general area of Evolutionary Biology. We are looking for

Professor of Evolutionary Biology Professor of Environmental Biology Lecturer in Environmental Biology Lecturer in Animal Evolution

The Faculty of Life Sciences has a global reputation for research. Recognised as an international site of excellence in terms of research power and importance, and named in the top three UK Biology groupings in the 2008 RAE, we use cross-disciplinary approaches to address major biological problems of global significance.

More details here: http://www.ls.manchester.ac.uk This is part of an ambitious programme of recruitment at Manchester, which will see the appointment of over 100 chairs and lecturers: http://www.worldleadingminds.manchester.ac.uk/

Contact: Professor Matthew Cobb email: cobb@manchester.ac.uk phone +44 (0)161 275 5419

cobb@manchester.ac.uk

UMemphis EnvironmentAdaptation

Position announcement: Tenure-track Assistant Professor in Ecology University of Memphis Department of Biological Sciences The Department of Biological Sciences at the University of Memphis (http://-www.memphis.edu/biology/) seeks to complement and build on existing strengths in ecology and evolution by inviting applications for a tenure-track position in ecology at the rank of assistant professor to begin August 2012. We seek an outstanding ecologist with an integrative research program designed to understand the genetic mechanisms underlying responses of organisms to their natural environments. Preference will be given to ecologists whose research is in the specific areas of ecological genetics/genomics. Exceptionally qualified applicants in other subdisciplines of ecology will also be considered. The successful applicant will be expected to develop an externally funded research program, supervise PhD and MS students, and contribute to the teaching curriculum by developing courses in general ecology, as well as in his/her area of expertise. Candidates must have a PhD and post-doctoral experience, a record of peer-reviewed publication and other scholarly accomplishments.

The University of Memphis is a leading metropolitan research institution with over 30 faculty members specializing in diverse subdisciplines of the biological sciences. The Feinstone Center for Genomic Research (http://www.memphis.edu/feinstone/), the interdepartmental Program in Bioinformatics (http:/-/www.memphis.edu/binf/), the Ecological Research Center (http://www.memphis.edu/erc/), the Integrated Microscopy Center (http://www.memphis.edu/-imc/), and the Meeman Biological Field Station (http://www.memphis.edu/meeman/), are all administered through the department and offer outstanding opportunities for research, teaching, and collaboration.

Candidates should submit a letter of application, statements of research interests and teaching philosophy, and a cv online at https://workforum.memphis.edu/-applicants/jsp/shared/frameset/Frameset.jsp?time=-1317675455052 Applicants should also provide contact information for three references willing to write letters of recommendation, if requested.

Review of applications will begin on November 15th, 2012. Inquiries should be directed to Dr. Randall Bayer, Chair, Ecology Faculty Search, Department of Biological Sciences, The University of Memphis, Memphis, TN 38152, USA (or email rbayer@memphis.edu). Women and minorities are encouraged to apply. The University of Memphis is an equal opportunity/affirmative action employer that accommodates individuals with disabilities.

Duane D. McKenna Assistant Professor Department of Biological Sciences Associate, Program in Bioinformatics Associate, W. Harry Feinstone Center for Genomic Research University of Memphis 3774 Walker Avenue Memphis, TN 38152

phone: (901) 678-1386 email: dmckenna@memphis.edu website: https://umdrive.memphis.edu/dmckenna/-public/index.html "Duane McKenna (dmckenna)" <dmckenna@memphis.edu>

UMontreal AdaptivePhysiology

Department of Biological Sciences Faculty of Arts and Science

Professor in Animal Ecophysiology or Adaptive Physiology

The Department of Biological Sciences invites applications for a full-time tenure-track position as Assistant Professor in Animal Ecophysiology or Adaptive Physiology.

Responsibilities Successful candidates 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 institution.

Requirements * PhD in Biology with a specialization in animal physiology, ecophysiology, development or endocrinology; * Postdoctoral research experience; * Excellent publication record in international scientific journals; * Development of an innovative, competitive world-class research program in animal physiology integrating adaptive and evolutionary aspects with respect to the environment; ** Able to integrate comparative and molecular approaches in the research program; * Open to interdisciplinary and collaboration with department members * Ready to assume teaching of comparative physiology and adaptive ecology at the undergraduate level; * A good working knowledge of French is required. French being the teaching language on campus, candidates who do not speak French should acquire an adequate knowledge of it within a reasonable period after the appointment.*

Salary The UniversitÃ© de MontrÃ©al offers a competitive salary and a complete range of employee benefits.

Starting date >From June 1, 2012 (subject to budgetary approval)

Candidates' file, including a curriculum vitae, copies of 3 recent publications or research, a description of their research program (2 pages maximum), and their teaching philosophy should be sent by December 15, 2011. Three confidential letters of reference, from the thesis supervisor, postdoctoral research director, and employer should be sent under separate cover to the same address.

Madame Bernadette Pinel-Alloul, (Interim Chair) Monsieur Marc Amyot, (Chair as of December 2012) DÃ©partement de sciences biologiques UniversitÃ© de MontrÃ©al C.P. 6128, succ. Centre-ville MontrÃ©al (QuÃ©bec) H3C 3J7

*The UniversitÃ© de MontrÃ©al is a QuÃ©bec university with an international reputation. French is the language of instruction. To revitalize its teaching faculty, the University is intensively recruiting the world's best specialists. In accordance with the institution's language policy http://www.direction.umontreal.ca/-secgen/recueil/politique_linguistique.html, the UniversitÃ© de MontrÃ©al provides support for newly-recruited faculty to attain proficiency in French. The UniversitÃ© de MontrÃ©al selection process allows all regular professors in the Department to have access to submissions unless the candidate explicitly states in her or his covering letter that access to the file should be limited to the selection committee. This restriction on accessibility will be lifted if the candidate is invited for an interview. In compliance with Canadian immigration requirements, priority shall be given to Canadian citizens and landed immigrants. The UniversitÃ© de MontrÃ©al upholds the principles of employment equity and welcomes applications from women, ethnic and visible minorities, aboriginals and people with disabilities.

Martine Girard Technicienne en coordination de travail de bureau DÃ©partement de sciences biologiques

FacultÃ© des arts et des sciences UniversitÃ© de MontrÃ©al Case postale 6128, succursale Centre-Ville MontrÃ©al (QuÃ©bec) H3C 3J7

TÃ©lÃ©phone : 514-343-6878, TÃ©lÃ©copieur : 514-343-2293

Girard Martine <martine.girard.3@umontreal.ca>

UNewSouthWales 2 EukaryoticGenomics

Lecturer/Senior Lecturer (2 Positions) in Eukaryotic Genomics/Genetics The University of New south Wales, Sydney Australia Faculty of Science School of Biotechnology & Biomolecular Sciences REF. 8383NET

Salary Level B/C: A$83,262 - A$116,024 per year depending on qualifications and experience (plus 17% employer superannuation and leave loading)

Two exciting opportunities exist to join the School of Biotechnology and Biomolecular Sciences (BABS) at the University of New South Wales. The School of BABS has an international reputation in many areas of molecular medicine, genomics, proteomics, cellular biology, biomaterials, environmental microbiology and chemical ecology. We are seeking two outstanding candidates at Lecturer or Senior Lecturer level in the area of Eukaryotic Genomics/Genetics.

The successful applicants will be expected to develop externally funded research activities and contribute to new and existing undergraduate and postgraduate teaching programs. The School hosts the Ramaciotti Centre for Gene Function Analysis, which has excellent facilities for microarray analysis, next-generation genome sequencing and high performance computing. The School also hosts the New South Wales Systems Biology Initiative and has access to outstanding proteomics and metabolomics facilities at the UNSW Bioanalytical Mass Spectrometry Facility. Additional major facilities at the University provide capacity for biochemical, biophysical and chemical analyses, electron microscopy and animal breeding.

The incumbents will be expected to make active contributions to the teaching effort of the School and to carry out activities to maintain and develop his/her scholarly research and professional activities in the field of eukaryotic genomics/genetics at a level commensurate with UNSW's international standing.

The position is a full-time, fixed term appointment for 3 years with a provision for conversion to a tenured position after 3 years, subject to satisfactory performance and an ongoing need by the University. Women and people from equity groups are encouraged to apply.

Applicants should address the selection criteria found within the position description, in their online application. In addition, applicants should also provide a statement of research and teaching goals, and a research and industry linkage implementation plan.

For further information about the position see UNSW jobs website: http://www.hr.unsw.edu.au/-services/recruitment/jobs/11111101.html Or email w.ballard@unsw.edu.au

Web link to School www.babs.unsw.edu.au Applications close : 07 December 2011

Michele Potter School Manager Room 229 Level 2 Biological Sciences Building School of Biotechnology and Biomolecular Sciences The University of New South Wales SYDNEY NSW 2052 Telephone: +61 (2) 9385 2101 Facsimile: +61 (2) 9385 1483 Email: m.potter@unsw.edu.au http://www.babs.unsw.edu.au

Michele Potter <m.potter@unsw.edu.au>

UOregon 4 BioMath 2

Colleagues,

This is a second message to remind you that the University of Oregon is searching for four new faculty to join a growing cohort of researchers working at the interface of mathematics and biology. We are conducting two separate, but related, job searches to fill these positions. The first is a cluster of three faculty hires into the Departments of Mathematics and Biology, and the second is a position in the Robert D. Clark Honors College in Biophysics and Computational Biology. These are new positions created because the research and educational mission of the University has grown substantially over the last decade. Successful candidates will therefore be part of an exciting new growth area at the University of Oregon that will integrate with existing strengths in evolution, development and genomics.

See below for more information and details on how to apply.

Sincerely, Bill

1) Faculty Positions Bridging Mathematics and Biology, University of Oregon

The Departments of Biology (http://-biology.uoregon.edu) and Mathematics (http://-math.uoregon.edu) at the University of Oregon announce a cluster hire of three tenure-related faculty positions in Fall 2012. At least one of these positions will 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 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 integrating mathematical approaches into biological inquiry, or who develop mathematical or statistical methodology related to the life sciences.

Examples of these areas include, but are not limited to, systems biology and functional genetics, dynamical systems in biology, statistical analysis of large data sets, algorithms for analyzing sequence data, game theory, stochastic models for population genomics and molecular evolution, and machine learning. Applicants working to integrate biology and math in other areas are also

encouraged to apply. Successful candidates will bolster our emerging strengths in biomathematics, maintain an outstanding 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 at https://-www.mathjobs.org/jobs/jobs/3063. 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. To be assured of full consideration, application materials should be uploaded by November 15th, 2011, but the search will remain open until the positions are filled. Women and minorities are encouraged to apply.

2) Biophysics and Computational Biology.

The Robert D. Clark Honors College of the University of Oregon invites applications for a tenure track assistant professor position in biophysics and/or computational biology. We seek specialization in theoretical and/or computational approaches. Scholars employing bioinformatics, molecular biophysics and/or systems biology to investigate fundamental questions regarding the structure and function of biological systems are particularly encouraged to apply. Applicants should demonstrate an outstanding record of research accomplishment and evidence of exceptional promise in teaching as well as innovative, interdisciplinary approaches to honors science education. The successful candidate will be expected to establish a vigorous, externally funded research program. The CHC expects faculty research of the highest quality and applies promotion and tenure standards for scholarship in the faculty member$\hat{E}\frac{1}{4}$s primary scientific field. The successful candidate will teach primarily within the Clark Honors College and will share responsibility for its introductory science curriculum and science advising. Research activities and graduate teaching and advising will be facilitated via membership in the appropriate UO science departments and institutes.

The Clark Honors College is a liberal arts college of about 700 undergraduate students and 15 faculty in the arts and sciences within the larger research university. The mission of the CHC is to provide high-achieving students with an intensive small college experience and to foster lively conversation across the arts and sciences. The CHC curriculum emphasizes undergraduate research; courses in all fields are taught in a discussion-based seminar format. Completion of a PhD in physics, biology, or a related field is required.

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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

UOregon Bioinformatics

Scientific Software Consultant

University of Oregon, College of Arts and Science

Location: Eugene, Oregon

Closes: Opened until filled

Job Context:

Provide support to the UO research community in the use of high-performance cluster and cloud computing systems. The person in this position will serve as application, tool, library, and programming specialists, assisting research groups both in the use and development of scientific software. The ideal candidate will be driven by the same sense of intellectual curiosity that drives scientific research. The newly acquired ACISS (Applied Computational Instrument for Scientific Synthesis) science cloud, consisting of over 2700 compute cores, 156 GPU-s, 19 TB system memory, and 420 TB storage, will be the primary computational platform for team activities

Duties and Responsibilities:

Scientific Software Consultant will engage with a variety of research projects across multiple disciplines, many of which are data intensive and/or require complex visual rendering. Current and soon-to-begin examples include:

Modeling neural networks in C.elegans Neuroinformatics and dynamic brain analysis Mesoscale modeling of macromolecular liquids Astrophysical simulations of turbulent plasma flows Evolutionary studies using phylogenetic methods Genomic analyses of massively parallel DNA sequencing data Computational workflow, parallel performance tools, and environments for simulation science Expected core competencies of Scientific Software Consultant include knowledge of and experience with:

Parallel processing in cluster environments as well as multi-core, multi-CPU systems Programming lan-

guages such as Java, Fortran, C, C++, Python, Perl, etc. Linux (e.g., Scientific Linux, Red Hat) and/or other Linux packages 3-D graphics tools and techniques Scientific libraries (e.g., numerical, optimization, graph) Multiple domains including physics, math, chemistry, biology, earth, and computer science Services provided by Scientific Software Consultant will include:

Consultation with individual researchers on the use of available, open-source tools Assistance with porting existing codes to new platforms Setting up and maintaining virtual services; Linux server/cluster management Assistance in implementing and refining algorithms appropriate for new codes; parallelizing code, measuring code performance, and tuning code. Assistance in identifying the most effective numerical methods, scientific libraries and computational techniques for individuals-applications Troubleshooting statistical packages, such as Matlab, Mathematica, maple, SPSS, and R Data visualization programming Database and security programming for web-based applications

Qualifications Requirements:

The following are minimum requirements for this position:

- Three years working in a group that supports research computing and data management,

- A combination of 2-3 of the core competencies defined above,

- Ability to work both independently and in a collaborative problem solving environment, meeting goal-oriented deadlines

- Bachelor-s Degree

- Excellent oral and written communications skills

- Able to prioritize and meet deadlines in a fast pace environment

- Strong project management skills

Desired Qualifications

- Masters or higher level of degree

- Prior experience assisting with scientific research projects

- Demonstrate ability to administer affirmative action policies effectively and supervise in a culturally diverse workplace

Background Check Statement: Criminal background check required for the position

Employment Beginning: February 1, 2012

Appointment Percentage: 12-month; full-time

Salary: Competitive salary based on qualifications and experience

Benefits:

In addition to the above mentioned salary, this position has an excellent benefits package including health, dental, insurance, retirement plan, employee tuition rates (transferable to immediate family members under specific circumstances) and excellent vacation and sick leave provisions.

Application Procedures:

This position is open until filled. To ensure full consideration, all materials should arrive by November 30, 2011.

Complete applications must include the following:

- Answers to the following questions. Please be as detailed as possible and provide what your role was in all projects and how you influenced any decision that was made during the course of the specific project:

1. Detail your experience working on programming projects as a member of a team. What characteristics do you possess that make you a valuable team member and why? How do you handle conflict in a team?

2. What is your communication style? Give an example of a project you worked on where the client-s expectations were markedly different from what you could feasibly deliver. What techniques did you use to bring the client-s expectations in line with what

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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

UOtago ResTech Paleogenetics

Research Technician-1100595

Department of Anatomy Otago School of Medical Sciences University Of Otago, Dunedin, New Zealand

An opportunity has arisen for a Research Technician to work on research projects in paleogenetics and molecular anthropology, working with both modern and ancient DNA. The position is available for 12 months, with an anticipated commencement date of 1 February 2012. Ideally, this will be a full-time appointment,

however applications for a part-time position may be considered.

The ideal applicant will have an enthusiasm for this field of science and will hold a minimum of a BSc(Hons) or have equivalent research experience. They will also have experience with molecular biology techniques, database management and be willing to learn new skills.

Specific inquiries may be directed to Dr Michael Knapp (michael.knapp@otago.ac.nz), Department of Anatomy, Otago School of Medical Sciences.

Applications will close on Monday, 12 December 2011 (New Zealand time).

michael.knapp@anatomy.otago.ac.nz

URochester EvolutionaryBiology

The Department of Biology at the University of Rochester (http://www.rochester.edu/College/BIO/-index.php) invites applications, at all levels, for a tenure-track faculty position. Our multidisciplinary biology department affords opportunities for intellectual interactions across diverse research disciplines. We are seeking candidates with interests in either of the broad disciplines below, and in particular those who bridge across these disciplines.

*Cell, Molecular and Developmental Biology: We encourage applications from outstanding candidates that address fundamental questions in cellular, molecular, and developmental biology. Candidates working in both basic and biomedical areas are encouraged to apply.

*Evolutionary Biology & Ecology: All areas of evolutionary biology and ecology will be considered; candidates with interests in evolutionary or ecological genomics, computational biology, and evolutionary developmental genetics are especially encouraged to apply.

We are seeking candidates whose research programs address basic biological problems and who have demonstrated excellence, originality, and productivity in research. Our research and graduate programs are integrated into a world-class life sciences research campus that also affords ample opportunities for interactions and collaborations with the adjacent University of Rochester Medical Center. Research activities across the University are supported by core facilities including Imaging, Proteomics, Functional Genomics, and Flow Cytometry cores.

Application materials should be uploaded at https://-www.rochester.edu/fort/bio/index.php. Complete applications include: a cover letter; curriculum vitae including publication list; statement of research accomplishments and future plans; statement of teaching experiences and interests. Instructions for supplying three letters of recommendation are on the application website. Review of applications will start December 1 and continue until the position is filled.

The University of Rochester is an Equal Opportunity Employer, has a strong commitment to diversity and actively encourages applications of candidates from groups underrepresented in higher education.

daven.presgraves@rochester.edu

USaoPaulo EvolutionBiology

University of Sao Paulo - Brazil: Faculty Positions V Developmental Biology and Zoology

The Department of Zoology of the Institute of Biosciences of the University of Sao Paulo (Brazil) is seeking applications for two tenure-track Assistant Professor faculty positions: Developmental Biology (all fields) and Zoology (systematics, natural history and evolution of any group of metazoans or non-parasitic protists). Applicants must hold a Ph.D. degree in a field related to the position of interest and a demonstrated record of research productivity. The successful candidates will be expected to maintain a rigorous research program and contribute to undergraduate and graduate teaching. Applications should be submitted by January 7th, 2012. Further information (including information for foreign applicants and/or holders of a foreign Ph.D.) can be obtained from: Dr. Pedro Gnaspini, Chair of the Department of Zoology, zoochefe@ib.usp.br.

Pedro Gnaspini <zoochefe@ib.usp.br>

UStAndrews ResAssist EvolutionCognition

Research Assistant: Evolution of cognition

University of St Andrews, Schools of Biology & Psychology

Research Assistant - Reference: JC1086

You will join a 3-year BBSRC-funded project exploring the role that cognition plays in nest building by birds, including which parts of the brain control nest building. This will be done using a multi-stranded approach incorporating both field and laboratory experiments and two 'model' systems: weaver birds and zebra finches. This project offers the exciting opportunity to address several questions. For instance, why does 'complex' cognition evolve? Can 'complex' cognition be quantified? Why does tool manufacture and use evolve?

You will be a highly motivated individual with an interest in brain and behaviour in non-human animals. You must have a first degree in biology, psychology or neuroscience. Relevant field experience is desirable as are excellent writing and communication skills.

Salary: Salary: £24,370 per annum

Potential applicants are encouraged to contact Dr Sue Healy (susan.healy@st-andrews.ac.uk) for further information.

The post is available for 36 months starting January 2012.

Closing Date: 2 December 2011 Interview Date: 9 December 2011

We encourage applicants to apply online at www.vacancies.st-andrews.ac.uk/welcome.aspx, however if you are unable to do this, please call +44 (0)1334 462571 for an application pack.

Dr David M Shuker NERC Advanced Research Fellow School of Biology University of St Andrews Harold Mitchell Building St Andrews Fife KY16 9TH UK Email: david.shuker@st-andrews.ac.uk

LAB WEBSITE: http://biology.st-andrews.ac.uk/-shuker Tel: +44 1334 463 376 Fax: +44 1334 463 366

dms14@st-andrews.ac.uk

USussex 2 EvolutionaryBiology

As part of a major programme of investment, the School of Life Sciences at the University of Sussex is looking to appoint two new Professors/Readers in the general area of Evolutionary Biology. We are looking for outstanding individuals who have established internationally visible research profiles (for appointment at the Professorial level) or who show a clear trajectory to success (for appointment as Readers), have a demonstrable ability to attract appropriate research funding, and are able to complement and extend the existing research activities of the School (seehttp://www.sussex.ac.uk/-lifesci/research). We will consider applicants working in all areas of Evolutionary Biology, but we are especially keen to attract those with interests in social behaviour, molecular evolution, comparative genomics and the application of quantitative approaches to Biology. The School of Life Sciences at the University of Sussex was founded by John Maynard Smith and currently has a very active research grouping in Evolution, Behaviour and Environment (see http://-www.sussex.ac.uk/lifesci/research/ebe).

Informal enquiries can be made to Adam Eyre-Walker (a.c.eyre-walker@sussex.ac.uk) or Jeremy Field (j.field@sussex.ac.uk). For full details, and how to apply for these positions see the Neuroscience/Evolutionary Biology job (REF: 438-441) advertised at www.sussex.ac.uk/jobs . a.c.eyre-walker@sussex.ac.uk

UToulouse Macroecology Macroevolution

Macroecology, Macroevolution, and Models of Biodiversity

The CNRS Research Unit 5174 (EDB; http://-www.edb.ups-tlse.fr/) at Paul Sabatier University (Toulouse, France) seeks to complement and build on existing strengths in ecology and evolution by inviting applications for a full permanent position at the rank of lecturer.

We seek outstanding applicants engaged in answering broad basic questions to advance the fields of macroecology and macroevolution, with a strong emphasis on the combined application of empirical and theoretical approaches. Preference will be given to applicants with experience and strong interest in field oriented research. Numerous opportunities for collaborative research are available in the Toulouse area through EDB itself and the other research units of the Research Federation 3450 (http://www2.toulouse.inra.fr/ifr40/-fr/1_Presentation/index.htm)

Strong commitment to teaching at the undergraduate

and graduate level is expected. Note that it is necessary to be relatively fluent in French since teaching is in English at the Master level only. Applicants must have a Ph.D. degree and have obtained the formal ≪ Qualification ≫ to apply to French University positions.

The review process will be held in Spring 2012. Official announcements will be posted later but if you are interested, send a CV and a brief letter of interest to Christophe Thébaud (christophe.thebaud@univ-tlse3.fr).

Christophe Thebaud <thebaud@cict.fr>

UWisconsin Madison Bioinformatics

Bioinformatics-UW Biotechnology Center University of Wisconsin Biotechnology Center (UWBC) is seeking an individual to work directly with Advanced Genome Analysis Resource (AGAR) clients to provide bioinformatics services, analysis and consultation for their projects. Minimum of five years of postdoctoral experience, in bioinformatics, genome assembly, SNP detection, ChIP- seq, MeDIP-seq, RIP-seq analyses, and expression profiling using RNA- seq is required. Minimum salary $55,000

For more information: http://www.ohr.wisc.edu/pvl/-pv_071425.html Send letter and resume to Joan Schleicher, PVL # 71425, UW Biotechnology Center, 425 Henry Mall, Madison, WI 53706-1580, or by email to jschleicher@biotech.wisc.edu.

UW Madison is an equal opportunity/affirmative action employer. Unless confidentiality is requested in writing, information regarding applicants must be released upon request. Finalists cannot be guaranteed confidentiality.

Charles Konsitzke <cmkonsitzke@wisc.edu>

VirginiaCommonwealthU PlantEvoDevo

The Department of Biology invites applications for a plant scientist with expertise in evolutionary developmental biology. Special consideration will be given to applicants who can collaborate with our growing group of plant scientists and developmental biologists. This is a nine-month, tenure-track position at the rank of Assistant Professor.

The successful applicant will be expected to develop a productive, externally-funded research program and direct graduation students through the Ph.D. level. Primary teaching responsibilities will include related undergraduate and graduate courses. Postdoctoral experience is expected and demonstrated evidence of excellence in scholarship and teaching is required. In addition, applicants must have demonstrated experience working in and fostering a diverse faculty, staff, and student environment or commitment to do so as a faculty member at VCU. Competitive start-up funds are available.

Electronic submission of applications to biology@vcu.edu is preferred, but hard copies of vitae, statements of research and teaching interests, and three letters of reference may be sent to: Stephanie Millican, Department of Biology, Virginia Commonwealth University, Richmond, VA 23284-2012. Closing date is December 15, 2011. Virginia Commonwealth University is an equal opportunity/affirmative action employer. Women, minorities and persons with disabilities are encouraged to apply.

For Additional Information Mrs. Stephanie Millican Phone:804-828-1562 Fax:804-828-0503 Web: http://-www.has.vcu.edu/bio rjdyer@vcu.edu

VirginiaTech EvolutionaryBiol

Virginia Tech Department of Biological Sciences Faculty Position in Molecular Ecology

The College of Science, in support of the universitys strategic plan, is expanding its research presence in: Energy and the Environment, Neuroscience, Nanoscience and Visualization, Pattern Recognition & Data Analytics through interdisciplinary faculty hires across departments. For further information, visit www.science.vt.edu under faculty openings.

As part of this initiative, the Department of Biological Sciences at Virginia Tech anticipates a tenure-track opening in Molecular Ecology with an emphasis on the use of molecular genetic or genomic techniques to address questions related to the evolution, ecology and behavior of animals and/or plants, to start in August 2012. Appointment at the assistant professor level is

anticipated but exceptional senior candidates will be considered. We seek candidates whose research areas complement existing focus groups in the department including Integrative Organismal Biology (http://-/www.biol.vt.edu/research/ibob), Molecular Plant Sciences (http://www.molplantsci.org.vt.edu), and the Ecosystem Research Group (http://www.biol.vt.edu/-research/streamteam/ERG_webpage/Welcome). Applicants must have a Ph.D. in biological sciences or a closely related field and strong promise of developing an active research program. Preference will be given to applicants with post-doctoral research experience, a commitment to excellence in teaching, and demonstrated interest in collaborative research.

Further information can be found at http://-www.biol.vt.edu. Questions regarding the position can be directed to Dr. Jeff Walters, Chair, Molecular Ecology Search, Department of Biological Sciences, Virginia Tech, Blacksburg, VA 24061, Tel: (540) 231-3847, Email: jrwalt@vt.edu. Applications must be submitted online at http://listings.jobs.vt.edu (posting #0111163 and should include a cover letter, curriculum vitae, statements of research and teaching interests (one page each) and three letters of recommendation. Letters of recommendation should be sent by e-mail directly to MESearch2011@vt.edu. Review of applications will begin December 19, 2011 and continue until the position is filled. Virginia Tech is an EO/AA university, and offers a wide range of networking and development opportunities to women and minorities in science and engineering. Individuals with disabilities desiring accommodations in the application process should notify Dr. Walters or call TTY 1-800-828-1120.

– Raymond M. Danner PhD Candidate Dept. of Biological Sciences at Virginia Tech Smithsonian Migratory Bird Center 2119 Derring Hall Blacksburg, VA 24061 P 540-231-3769 | E rdanner@vt.edu https://filebox.vt.edu/users/rdanner/ http://nationalzoo.si.edu/ConservationAndScience/-Scientific_Staff/staff_scientists.cfm?id=290 Ray Danner <rdanner@vt.edu>

WageningenU BehaviouralEvolution

Tenure track position in Behavioural Ecology,

Department of Animal Sciences, Wageningen University, The Netherlands

The newly established chair group in Behavioural Ecology at Wageningen University offers a position as Assistant Professor in the field of Behavioural Ecology (vacancy number ASG-DW-ADP-0001). The candidate will be responsible for the organisation, implementation and coordination of new research activities in this field, as well as building up a leading international position. Your research should focus on vertebrate behavioural ecology. You will be involved in teaching at undergraduate and graduate level, supervise PhD and Masters students and you will be expected to obtain external research funding and to publish in international (refereed) journals. We offer a stimulating and friendly working environment where you are expected to contribute to increasing our understanding of animal populations. Training and coaching is provided to accomplish all this.

As Assistant Professor you are an ambitious and enthusiastic scientist and a team player, devoted to research and education in the field of behavioural ecology. Preference will be given to candidates with experimental approaches using birds in the natural habitat as model systems but applications form a broader field will be considered.

The Behavioural Ecology chair group of the Animal Science Department Wageningen University is a newly established enthusiastic and ambitious group which combines expertise in animal behaviour, animal welfare and behavioural ecology. The group will be formally established on 1st December 2011. The research of the group will focus on vertebrates ranging from farm animals to animals in their natural habitat. The chair group in Behavioural Ecology will have a focus on social behaviour using birds as a model species covering topics including social networks, communication, foraging and cognition but applications from also a broader range of topics will be considered. We encourage applications from individuals with a broad range of interests, but will give priority to candidates with research interests and experience in ecological and evolutionary approaches to study behaviour in the natural habitat.

Wageningen University offers you as talented scientist a challenging new career trajectory called Tenure Track. We have the ambition to attract top scientific talent and to stimulate their development. From the position of Assistant Professor you can grow into the position of a Professor holding a personal chair. We are looking for high potentials who can excel in education and research. We offer you a temporary contract for 38 hours per week, which can lead to a permanent employment contract. A part-time position of 0.8 Fte is negotiable. The monthly salary depends on your work experience and expertise. Gross salary from 3195 to max. 4374 as Assistant Professor and based on full time employ-

ment. The career path consists of a number of successive career steps, from Assistant Professor, to Associate Professor to Professor holding a Personal Chair. Excellent performance and seniority can be rewarded with an appointment as Associate Professor.

Additional information about the vacancy can be obtained from: The chair of the Behavioural Ecology group, Prof. dr. Marc Naguib,

Telephone number: 0031 (0)317- -473442; after 1st December 0031-(0)317 483860

E-mail address: m.naguib@nioo.knaw.nl

Application You can apply till 15 December 2011. Interviews will take place in early January

Go to the website below for more detailed information and to apply for the position http://www.wur.nl/-UK/work/Vacancies+New To access the advertisement use the link above and enter the vacancy number ASG-DW-ADP-0001 into the "vacancy field". Then follow the further links. Contact Marc Naguib at m.naguib@nioo.knaw for or any questions regarding the position or the application procedure.

Prof. Dr. Marc Naguib Department of Animal Ecology Netherlands Institute of Ecology (NIOO-KNAW) Wageningen,The Netherlands, Phone +31-317-473442

m.naguib@nioo.knaw.nl; http://www.nioo.knaw.nl/-users/mnaguib/ < http://www.nioo.knaw.nl/en/-node/1061 >

note my new address from 1.12.2011 Behavioural Ecology Group, Department of Animal Sciences Wageningen University, De Elst 1, Building number 122 6708 WD Wageningen, The Netherlands

"Naguib, Marc" <M.Naguib@nioo.knaw.nl>

WashingtonStateU:InsectPlantInteractions

While the job doesn't say evolution anywhere in the title, the job description is ambiguous enough to accommodate (and welcome) evolutionary biologists. I'm a long-standing evoldir member and I think that this job advertisement would be of interest.

ASSISTANT PROFESSOR/ASSOCIATE PROFESSOR

The Department of Entomology, Washington State University (WSU) in Pullman, WA, invites applications for a tenure-track, full-time, 9-month Assistant Professor/ Associate Professor position. Research areas can include basic or applied aspects of plant-insect communication, the induction and evasion of plant defenses, genomics, and/or adaptation to climate change. The successful candidate will contribute to a University-wide "Area of Excellence" in plant biotechnology and a growing focus on linking genetics to plant form and function (phenomics). The successful candidate will further strengthen collaborative links with multiple departments and colleges at WSU and with the University of Idaho, and develop robust collaborations within the department itself. The successful applicant will be expected to conduct an approved program of research consistent with the mission of the WSU Agricultural Research Center. The department is deeply committed to graduate education, and the holder of this position will be expected to participate vigorously in the successful mentoring of PhD and undergraduate researchers as well as develop and teach undergraduate and graduate courses using modern methods, furthering the department's dynamic teaching program.

Required: Ph.D. by date of hire in topic related to plan-insect interactions. Preferred: Demonstrated ability to establish a vigorous research program resulting in peer-reviewed publications in top-ranked journals; demonstrated ability and/or potential to generate abundant external grant funding; demonstrated ability and/or potential to teach and mentor students successfully at the graduate and undergraduate level, in particular at the PhD level; demonstrated ability to develop collaborations with scientists within and outside of home Department and College, helping further integrate the department into University-wide focal areas; ability to work with a variety of audiences, including governmental agency representatives, and persons of diverse cultures and backgrounds. Applications are only accepted on-line.

To apply, visit www.wsujobs.com. Application materials must include a letter describing how your experience and training meet qualifications for this position, a research plan, current vitae, copy of official transcripts, and names and contact information of four people willing to provide a letter of reference. Application review begins January 31, 2012. It is anticipated that the successful applicant will begin the appointment on August 16, 2012.

For further information about the position, contact Dr. Bill Snyder, Search Committee Chair, 509-335-3724, wesnyder@wsu.edu. EEO/AA/ADA

William Snyder Professor Washington State University Department of Entomology

509.335.3724

"Lavine, Laura Sue" <lavine@wsu.edu>

WayneStateU SystemsBiology

The Department of Biological Sciences at Wayne State University (http://www.clas.wayne.edu/biology/) anticipates hiring a tenure-track professor with research expertise in systems or computational biology. Preference will be given to candidates working in areas complementing the departments existing strengths in transcription and gene regulation, organismal and evolutionary development, intra- and intercellular signaling, genomics, and community and landscape ecology. Rank will be dependent on qualifications. Wayne State University is a large, comprehensive, nationally ranked research institution that offers state-of-the-art research facilities and highly competitive start-up packages. The metropolitan Detroit area offers a rich cultural and educational environment, an excellent standard of living, and easy proximity to Michigans lakes, forests and recreational sites. Applicants must have a Ph.D. degree, postdoctoral experience and an outstanding record of research achievement. Successful applicants are expected to establish and maintain vigorous, externally funded research programs and to participate in graduate and undergraduate education. All positions are posted on-line at jobs.wayne.edu. In addition to an online application that includes cover letter and curriculum vitae, applicants must submit a 2-page statement of their research plans and have three letters of reference sent to the Faculty Search Committee: ad5348@wayne.edu. Please apply by November 30, 2011 for full consideration. Applications will be considered only when all materials have been received.

Wayne State University is an affirmative action/equal opportunity employer. Women and members of minority groups are especially encouraged to apply.

Markus Friedrich Associate Professor Department of Biological Sciences Wayne State University 5047 Gullen Mall Detroit, MI 48202

office: 313 577 9612 lab: 313 577 5120 fax: 801 305 6200 http://friedrichlab.googlepages.com/home Markus Friedrich <friedrichwsu@gmail.com>

Other

384-well PCR

Dear colleagues,

I would like to ask you information about PCR machine for 384 samples. We are buying a 384-PCR and we are oriented toward a ?Veriti 384-well? of Applied Biosystems. Some of you know or use this kind of thermal cycler (Veriti 384-well ABI)?Is it a good machine for you?

Thank for your help,

Elena Fabbri

Dr. Elena Fabbri Istituto Superiore per la Protezione e la Ricerca Ambientale (ISPRA) Sede amministrativa ex-INFS Laboratorio di Genetica Via Cà Fornacetta 9 40064 Ozzano Emilia (Bo) +390516512251

elena.fabbri@isprambiente.it

454 sequencing problems

Hello,

I've had problems with a 454 FLX run and nobody (neither Roche or my sequence provider) is able to work out what is going wrong. The samples, which are amplicons of 200-300bp, appear to be of good quality, but the process falls over at the last hurdle. Below is an outline of the scenario. I'd be very grateful for any advice, or to hear if anybody has had a similar problem (and hopefully solved it!).

Cheers,

Oliver

* The templates are of good quality and concentration, established by agilent and nanodrop.

* There aren't any short fragments that would cause problems. There are some short-ish fragments around 150bp, but they were intentional.

* There are appropriate adaptors (LibL), established by qPCR and an emulsion titration.

* Small volume emPCR works well,

* Large volume emPCR gives much lower than expected results, and when we've tried sequencing the resulting beads they seem to cause failure of the processing filters, suggesting mixed reads.

Dr Oliver Berry Research Scientist | CSIRO Marine and Atmospheric Research Phone: +61 8 9333 6584 | Fax: +61 8 9333 6555 oliver.berry@csiro.au| www.cmar.csiro.au Address: Centre for Environment and Life Sciences, Cnr Underwood Ave. & Brockway Rd, Floreat, WA, 6014 Postal: Private Mail Bag 5, Wembley, WA, 6913

Oliver.Berry@csiro.au

Amphibian primers

Hi everyone,

I am doing my PhD on the Conservation and Ecology of the Northern Quoll (Dasyurus hallucatus), at Deakin University, Melbourne, Australia. Part of this study is genetically analysing quoll scats to look for the presence of amphibians, to test the hypothesis that Northern Quoll's have learnt to avoid all amphibians as a response to the long term presence of the invasive cane toad.

I have been searching the published literature however, I cannot find if there is already an identified amphibian primer. This would have to need to amplify all amphibians, but not other vertebrate species. Are you aware if this primer has been developed in the past?

Kind Regards, Hannah Pusey

Hannah Pusey, PhD Candidate School of Life and Environmental Sciences Deakin University, Burwood, Victoria Email: hpusey@deakin.edu.au Tel: +61 400 224 302 Skype: Hannah.Pusey1

Please consider the environment before printing this email

HANNAH PUSEY <hpusey@deakin.edu.au>

Conservation Internship Program

The Conservation and Land Management Internship Program is now accepting applications for 2012! Please apply online at www.clminternship.org Would you like to put your education to use assisting in important conservation projects? Do you like to experience new landscapes, habitats, and species diversity? The CLM Internship Program is a wonderful opportunity to begin a career in botany, wildlife biology, natural resource management and conservation!

Each year, the Conservation and Land Management Internship Program places 75-100 college graduates in five-month paid internships to assist professional staff at the Bureau of Land Management (BLM), National Park Service (NPS), US Forest Service (US FS), US Fish and Wildlife Service (FWS) and US Geologic Survey (USGS). Internships are primarily located in one of the thirteen western states, including Alaska. Each internship is unique and may focus on botany, wildlife, or a combination of the two. Projects may include collecting seed for restoration and conservation purposes and data on threatened and endangered species and habitats. Applicants with strong botanical backgrounds are especially encouraged to apply!

Benefits of the CLM Internship Program are numerous. As a CLM intern, you will receive a stipend paid every two weeks totaling $11,900 over 5 months and will attend an all-expenses paid week-long training workshop at a location to be determined. In addition, the CLM Internship Program provides opportunities to make connections in various governmental and non-profit organizations, to learn what it's like to work at a federal agency, to explore your career goals and expand your resume. For more information and to apply online, please visit: www.clminternship.org nzerega@chicagobotanic.org

Digitaria longiflora seeds

Dear colleagues,

We are looking for seeds of Digitaria longiflora, identified as being the closest wild species of Digitaria exilis, the cultivated fonio species. We are involved into a project aiming at sequencing the genome for domestication processes identifications (Arcad project, Workpackage 1, http://www.arcad-project.org/research_projects). Does anyone have information on how to get such seeds ? or even have some ? Seed transfer would of course be covered by a Material Transfert Agreement.

With regards,

Claire Billot (claire. billot@cirad.fr) and Adeline Barnaud (adeline.barnaud@ird.fr)

Claire BILLOT, PhD UMR AGAP, CIRAD/AGROPOLIS TA A-96/03 Avenue d'Agropolis F-34398 Montpellier Cedex 5 France Bat 3, Bureau 153 Tel: (33) 4 67 61 44 65 Fax: (33) 4 67 61 56 05 Cel: (33) 6 07 52 58 56 e-mail: claire.billot@cirad.fr

Claire Billot <claire.billot@cirad.fr>

Discordance in gene trees

Dear colleagues,

In bacterial data sets, discordance in gene trees can be caused by incomplete lineage sorting, lateral gene transfer, and others. I have a data set which represents several hundred shared orthologous genes among 40 bacterial genomes at sub-Family level. I found a majority of gene trees disagree with each other. I know later gene transfer has probably occurred. I want to test whether incomplete lineage sorting has played an important role, and whether incomplete lineage sorting is more important than lateral gene transfer.

I would greatly appreciate if someone can give me advice about what tools/approaches I can use differentiate/quantify incomplete lineage sorting and lateral gene transfer.

Best,

Haiwei Luo Postdoctoral Associate University of Georgia

Haiwei Luo <hluo2006@gmail.com>

DNA sequences with R

Dear Sir/Madam,

I write to ask the molecular biology community whether it is possible to setup a way with R to retrieve all sequences from GenBank for a specific list of taxa (no Genbank accession numbers associated) and for specific genes (matK and rbcL)?.

Thanks very much

Barnabas

Daru, Barnabas Haruna MSc Student, Molecular Systematics Laboratory, Department of Botany and Plant Biotechnology, University of Johannesburg, PO Box 524, Auckland Park, 2006 South Africa. Lab: +27 11 559 3477 Mobile: +277 3818 9583 Website: http://-acdb.co.za/index.php?page=mr-barnabas-h-daru

Barnabas Daru <darunabas@gmail.com>

DNASurveillance Carnivora

Dear EvolDir members,

The DNA Surveillance online tool now has a set of sequence alignments for identification of the mammals of the order Carnivora.

Because the reference sequences are short, the DNA Surveillance - Carnivora is particularly suitable for species ID of biological material containing low quality DNA (e.g. faeces, hair, museum specimens, and sub-fossils). Additional info is available at:

http://www.cebl.auckland.ac.nz:9000/page/-carnivora/title All the best,

Paulo B. Chaves New York University

pbchaves@gmail.com

Ecological Immunology RCN

The NSF Research Coordination Network in Ecological Immunology is welcoming additional members. This network is an association of ecologists, evolutionary biologists, immunologists, parasitologists, and other scientists working together to refine and develop tools and concept in the emerging field of Ecological Immunology. The field seeks, among other goals, to understand the causes and consequences of variation in immune function in natural systems. A recent special issue of Functional Ecology (February 2011) provides several examples of current 'hot topics' in the field.

RCN activities include i) annual workshops, ii) research exchanges among participant labs, iii) maintenance of a website (www.ecoimmunology.org) with timely, topical information, iv) facilitation of collaborations on grant proposals and manuscripts, and v) the development of curricula for high school teachers, among other things. Membership is open to everyone, but funding for support to attend workshops and partake in lab exchanges is limited (see RCN website for procedures for allocating funds).

If you are interested in joining, please email the RCNE (rdei.rcn@gmail.com) with information contained on the 'members and membership' page of the RCN website. If you have questions, please email me: lbmartin@usf.edu.

Thanks! Marty

Lynn B. Martin Assistant Professor Department of Integrative Biology University of South Florida 813-974-0157 lmartin@cas.usf.edu http://-/lbmartin.myweb.usf.edu/Martin_lab_at_USF/-Welcome.html

Evolution blog

Application deadline: December 1, 2011

Are you a blogger who is interested in evolution? For the third year in a row, the National Evolutionary Synthesis Center (NESCent) is offering two travel awards to attend ScienceOnline2012 < http://-/scienceonline2012.com/ >, a science communication conference to be held January 19-21, 2012, at North Carolina State University.

The awards offer the opportunity to travel to North Carolina to meet with several hundred researchers, writers, editors and educators to explore how online tools are changing the way science is done and commu-

nicated to the public. Each winner will receive $750 to cover travel and lodging expenses to attend the conference. For more information about the program for this year's conference, visit http://scio12.wikispaces.com/-Program+Suggestions . To apply for an award, writers should submit a blog post that highlights current or emerging evolutionary research. In order to be valid, posts must deal with research appearing in the peer-reviewed literature within the last five years. Posts should be 500-1000 words, and must mention the NESCent contest. Two recipients will be chosen by a panel of judges from both NESCent and the science blogging community.

You can submit your blog by emailing it to us at travel.award@nescent.org. Please send your name, contact information, the title and date of your blog post, and a URL.

Winners will be notified by December 15th, 2011.

For more information contact Craig McClain at cmcclain@nescent.org or Robin Smith at rsmith@nescent.org.

–

Robin Ann Smith, Ph.D. Science Writing and Communications National Evolutionary Synthesis Center 2024 W. Main Street, Suite A200 Durham, NC 27705 Tel: 919-668-4544 rsmith@nescent.org

http://robinannsmith.com/ http://twitter.com/-NESCent www.nescent.org/ Robin Smith <ras10@duke.edu>

Fish egg DNA

Dear all, we are trying to extract DNA for PCR amplification from fish eggs (a damselfish). Since the eggs are often embedded in the sticky mucus used by the female to lay them on the rock nests, we would like to find some form of chemical or enzyme that can be used to "wash" the eggs and remove the traces of mucus that can interfere with the isolation of clean DNA. Any tips are welcome.

Thanks!

Stefano.

Dr Stefano Mariani MARine Biodiversity, Ecology & Evolution UCD School of Biology & Environmental Science Science and Education Research Centre (West) University College Dublin Belfield Dublin 4 Republic of Ireland tel. +353.1.716.2347 fax. +353.1.716.1153 http://www.ucd.ie/marbee/stefano_mariani.html stefano.mariani@ucd.ie

Fish egg DNA answers

Dear all,

given the very numerous requests for feedback, I have now collated below a list of answers that I got. In respect of privacy, I have maintained anonymity.

Thanks again.

Stf.

>>>>>>>>

Hi

The problem sounds similar we had with frog eggs. Two possible solutions if the fish eggs work like frogs eggs.

1. Suck the egg contents out with a pipette inserted trough mucus. This is the method we used successfully with common frogs to isolate DNA for our work

2. Get rid of the mucus with 2.6% L-cysteine. I do not know if this works with fish mucus, but it effectively dejellied our frog eggs as described in the enclosed paper.

I hope this helps,

Hi Stefano,

Have you tried extraction methods that will digest away a lot of the PCR inhibitors? I've had good luck extracting from snails using a standard CTAB protocol (with a Phenol-Chloroform-Isoamyl alchohol wash).

I'm also attaching a paper that is specifically for small tissues/ embryonic fish.. which might work.

Good luck!

Dear Stefano, how are you? Have you tried CTAB extraction? That usually works quite well with "slimy stuff".

Stephano,

I wondered if it would be useful to check with protocols for extracting DNA from cacti and other mucilaginous

plants. Seems that there may be protocols that get rid of various proteins and carbohydrates in plants that are transferable.

I think you would try PROGEMA WIZARD DNA (salt-precipitation method) and/or DNA advance (magnetic beads method): We use them at our lab on different kinds of tissues (we use the chelex INSTAGENE too, not recommended for tissues with too much mucus)

http://www.promega.com/resources/protocols/-technical-manuals/0/wizard-genomic-dna-purification-kit-protocol/ http://www.beckmangenomics.com/-products/dna_purification_and_cleanup/-agencourt_dnadvance.html Im attaching a few papers regarding your question... Best and good luck,

---

For invertebrates, especially slimy ones, you can use any derivation of the CTAB methods. This is good when you have polysaccharides and you want to get ride of them.

cheers

Hello Stefano,

In the past, while trying to extract DNA from slugs (Deroceras reticulatum), that are covered in mucus, we faced a similar problem as you describe. We successfully extracted DNA by using the standard technique of digesting the tissue with proteinase K, and then using as many chloroform/phenol steps as necessary to remove all protein and other stuff from the solution. Usually two chloroform/phenol steps were enough, and invariably the method gave good quality DNA. Try to remove as much mucus as possible from the eggs (freezing them may make that easier?), and the chloroform/phenol steps will take care of the rest.

Hi Stefano,

You could try simple detergent. I've heard that can help in snail slima etc. (never tried myself, though) Good luck!

BAHL A & PFENNINGER M (1996) A rapid method for isolation of DNA using laundry detergent. Nucleic Acids Research 24, 1587-1588.

Hello Stephano I used cyanure potassium to wash the jelly of amphibian eggs. Very useful, all the jelly is distroyed and you obtain a clear isolated embryo. Perhaps similar effect with this kind of fish eggs best

---

Hi Stefano,

Probably wont be of much use but I know common carp (among other species) farmers regularly use tannin/tannic acid to 'wash' carp eggs when using the hypophysation technique to artificially spawn offspring. It removes the adhesive properties (i.e. mucus) of the eggs thus making them easier to handle, incubate etc. Prolonged exposure apparently damages the egg but a quick wash would appear to be ok. May be worth a look, sorry I cant be of more help.

---

hi Stefano, Prior to DNA extraction, you can add NaCl to the tissue to a final concentration of 0.7M, and 10% w/v of CTAB solution, and incubated at 70 degrees C for 10 minutes. I hope this helps.

I used to work with Stegastes partitus eggs, but never had trouble with the chemicals in the mucus. I was doing microsatellites. The eggs of this species are really tiny. Do you find dirty DNA?

I used the Wizard DNA extraction kit. The individual eggs were digested whole in 100 ìL of Nuclei Lysis Solution and 2 ìl of Proteinase K (20 mg/mL), and the Wizard kit protocol was scaled down by a factor of five.

I also extracted eggs using the silica-based 96-well plate extraction protocol, from Elphinstone et al. 2003. I also reduced the concentrations by a factor of five.

Cheers,

Stefano The relative stickiness of eggs is often related to pH (lower the pH,

— / —

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

GeneticDrift Understanding

Dear Colleagues,

We are developing a concept inventory to assess stu-

dents' understanding of genetic drift. We would sincerely appreciate your expert input on whether the concepts we have identified are appropriate targets for undergraduate instruction.As a member of the expert panel, you would simply read each of the provided concepts and respond to questions regarding concept validity and importance.We anticipate this task will take 20-30 minutes. Your responses will be completely anonymous unless you choose to provide us with your contact information. If you'd like, we will be happy to forward to you a copy of the instrument after it is revised on the basis of the expert review. We would also be excited if you would like to use the resulting instrument in your work or classes.Your input is crucial to the quality of the final instrument – we appreciate any help you are willing to give. Below is a link to the genetic drift concept survey:http://www.surveymonkey.com/s/VX6M786 Please complete the survey by November 11.

Again, thank you for your time.

NESCent Working Group on EvoCIs: Genetic Drift Team

Tessa Andrews (andrews.tessa@gmail.com)

Terri McElhinny (mcelhinn@msu.edu)

Louise Mead (lsmead@msu.edu)

Becca Price (becca.price@uwb.edu)

Anna Thanukos (thanukos@berkeley.edu)

If you would like to speak with the PIs of the NESCent working group, please contact:

Becca Price (becca.price@uwb.edu)

Kathryn Perez (Perez.Kath@uwlax.edu)

– Louise S. Mead, PhD Education Director BEACON Center for the Study of Evolution in Action 1441 Biomedical and Physical Sciences Building Michigan State University East Lansing, MI 48824 (517) 884-2560

Louise Mead <lsmead@msu.edu>

Kin selection

Dear friends, When looking a bird and the newborns, the mother is taking care only of these individuals. So, she is not taking more care on these individuals than others with less genetic relatedness, like the past offspring. The past newborns go away after the last reproduction season. But... when there is young birds acting like helpers in the nest, the mother will take more care on newborns and then I see kin selection here. In the first example, it seems to be more individual selection and in the second more kin selection. Maybe we could see kin selection in both cases but in the second one this selection would be stronger? So, thinking in this way, kin selection would be stronger when parents are dealing with different cohorts? This is just an idea and... I would like to receive comments ple ase!

PS: Thanks for all people sending opinions since my last message about this subject.

VoltoliniProf. Dr. J. C. VOLTOLINI

Universidade de Taubate - Departamento de BiologiaTaubate, SP. 12030-010. E-Mail: jcvoltol@uol.com.br * Grupo de pesquisa ECOTROP CNPq: http://dgp.cnpq.br/buscaoperacional/detalhepesq.jsp?pesq=8137155809735635* Currículo Lattes: http://lattes.cnpq.br/8137155809735635* Fotos de Cursos e Projetos no Orkut e Facebook:http://www.orkut.com.br/Main#Profile?uid=-1760842964384060848 3http://www.facebook.com/VoltoliniJC?v=info"Siamo tutti angeli con un'ala e possiamo volare soltanto se ciabbracciamo"

VOLTOLINI <jcvoltol@uol.com.br>

London SystematicsAssocLectureAndAGM 30Nov

The Systematics Association Annual General Meeting and President's lecture

The earliest tetrapods: What were they, and what are they?

Professor Jenny Clack

University of Cambridge

The Linnean Society, Burlington House, Piccadilly, London Wednesday 30th November 2011, 6 pm (following AGM at 5pm)

The meeting is open to visitors. Wine will be served after the lecture to members and guests. Please advertise this lecture as widely as you can. The associations' AGM will be held before the lecture at 5pm.

Abstract:

When E.S. Goodrich coined the term tetrapod, mean-

ing a vertebrate with four legs (or whose ancestors had them), there was a clear distinction between them and anything that might have been called a 'fish'. Only extant animals were considered at that time, because the fossil record of intermediate forms was more or less non-existent. Recent work on the earliest limbed vertebrates, from the Late Devonian period about 375-360 million years ago, has blurred the distinction between 'fish' and 'tetrapods' as applied to fossil forms. We now know much more about the transition between these body forms from a wealth of discoveries over the last 15 or 20 years. But this has brought problems of definition. What is a tetrapod, or rather how is the group Tetrapoda defined? This, and emergent associated questions are highly controversial. This talk will introduce some of the creatures that have been discovered, and the different, incompatible views that have been put forward as answers.

– The Wellcome Trust Sanger Institute is operated by Genome Research Limited, a charity registered in England with number 1021457 and a company registered in England with number 2742969, whose registered office is 215 Euston Road, London, NW1 2BE.

james.cotton@sanger.ac.uk

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james.cotton@sanger.ac.uk

Milkweed reflectance spectra

Milkweed reflectance spectra?

We are studying aposematism in monarch butterflies, and would like to obtain some reflectance spectra of milkweed plants (Asclepias) to enable us to estimate the conspicuousness of monarchs against a natural background. We are based in the UK, and this isn't a good time of year to obtain milkweed plants. Does anyone have and would be willing to share any reflectance spectra, please, of any milkweed species?

Many thanks, Jon Blount (University of Exeter)

Jonathan D. Blount | Royal Society Research Fellow | Centre for Ecology & Conservation | College of Life & Environmental Sciences | University of Exeter | Cornwall Campus | Penryn TR10 9EZ | UK

Tel. +44 (0)1326 371877 (direct) Fax: +44 (0)1326 254205 Email: j.d.blount@ex.ac.uk Web: http://biosciences.exeter.ac.uk/staff/index.php?web_id=jon_blount "Blount, Jonathan" <J.D.Blount@exeter.ac.uk>

Molecular dating software

Dear all,

I am looking for a molecular dating software that:

- works on a fixed topology and estimates dates/node-heights based on DNA sequences - produces a confidence interval for dates/node-heights - is fast (20 seq, 1kb, 1 minute)

and if possible:

- is reasonably accurate - allows partitioning of the dataset (if applicable) - is model based - can be invoked programmatically under linux

I would generally use BEAST, but this time the analysis has to be repeated many times and with little supervision, in a sort of pipeline, hence BEAST would be problematic.

Any help will be appreciated,

francesco

Francesco Nardi, Dr.

Dept. of Evolutionary Biology University of Siena

via Aldo Moro 2 - 53100 Siena Italy

Mail: nardifra@unisi.it Ph.: +39.0577.234420 (lab. 4398) Fax.: +39.0577.234476 Web: http://www.dbe.unisi.it/index.php?option=-com_content&view=article&id=89&Itemid=-113&lang=it nardifra@unisi.it

More Drosophila genomes

Subject: MORE DROSOPHILA SPECIES GENOMES Since the 2007 publication of the 12 species genomes, the genomes of nine additional species have been sequenced, bringing the total to 21.The UCSD stock center (https://stockcenter.ucsd.edu/info/-welcome.php) has the strains of the newly sequenced species in addition to a number of other stocks of each of these. These species, stock numbers and sites for accessing sequence information are as follows: Drosophila santomea (14021â0271.01) genome release 1.0 (http://genomics.princeton.edu/-AndolfattoLab/Links.html) from Peter Andolfatto's lab (http://genomics.princeton.edu/AndolfattoLab/-Andolfatto_Lab.html).

Eight from the Baylor College of Medicine as part of the modENCODE project (http://-www.hgsc.bcm.tmc.edu/collaborations/insects/-dros_modencode/GAsm/)

D. eugracilis (14026-0451.10) D. rhopaloa (14029â0021.01) D. biarmipes (14023-0361.10) D. bipectinata (14024-0381.19) D. elegans (14027-0461.03) D. ficusphila (14025-0441.05) D. kikkawai (14028-0561.14) D. takahashii (14022-0311.13)

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

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

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

Netherlands VolunteerFieldAssist RuffEvolution

*SHOREBIRDS FIELD ASSISTANT, The Netherlands***

Volunteers field assistant are needed *from 10 March to 15 May 2012* for an ongoing capture-recapture program on the Ruffs, *Philomachus pugnax. *The project is under the supervision of Prof. Dr. Theunis Piersma, head of the Animal Ecology Group of the University of Groningen. Our current research aims to better understand demographic and ecological processes playing a role in the ongoing decline of the Ruff population using the Netherlands during migratory stopovers. The fieldwork consists in the monitoring of colour-banded birds in Southwest Friesland, a characteristic Dutch meadow area in the north of The Netherlands. We collect data on the timing of migration, habitat use, phenotype characteristics, feeding and reproductive behaviour of the birds; but you will also assist with the banding of the birds, blood sampling, and data entry. Volunteers and students involved will live together in our field station in a small village along the shore of

Lake IJsselmeer.

We are seeking highly motivated people, happy to spend long days in the field, social and able to work in a team. In the same time, interested applicants should be independent, well organized and able to maintain a professional attitude. Good observation skills, experience with handling birds and colour-ring reading is definitely a plus. Commitment for the all study period and a driver license are required but command of Dutch or Frisian is not necessary ;-) Applicants willing to improve their spoken English are encouraged to apply (this is an excellent opportunity to improve!). But note that a good understanding is needed.

We provide housing and field equipment. Volunteers must pay own airfare and food expenses (3-4 Euros per day). A refund of flight cost might be possible (depending on pending grant applications).

To apply: Please send a resume/CV (keep it to relevant details), a cover letter (interests, career goals, relevant experience for the position and availability) and at least one reference.**

We will begin reviewing applications from 1th January 2012 and continue until position is filled.

*Contact: *

*Lucie SCHMALTZ *

PhD Student

Animal Ecology Group

Centre for Life Sciences

Nijenborgh 7

9747 AG GRONINGEN

Email: L.Schmaltz@rug.nl

Office : +31 50 363 2091

For further info see: http://www.rug.nl/biologie/-onderzoek/onderzoekgroepen/dieroecologie/-onderzoek/researchstudies/ Lucie SCHMALTZ <lucie.schmaltz@gmail.com>

NonNeutral SSR loci

Most analyses of population genetic variation and structure in populations assume the neutrality of the markers used. There are a number of software tools that test for selection on loci, with LOSITAN (which uses the It uses the FST-outlier method (Vitalis et al. 2001; Beaumont 2005) my preferred tool. In a data set of 31 microsatellite loci, as many of as six test as being significantly under either balancing or positive selection across my samples. I would just like to get a feel for whether the community at large, faced with such a scenario, would 1) advocate dropping those loci from the data set, 2) leaving them in or 3) presenting analyses both with and without those loci included. My question is asked from the standpoint of presentation in publication - I intend to analyze both the full and trimmed data set for my own interests in how non-neutral loci affect population genetic analyses.

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; FAX: 786-573-7102 email: alan.meerow@ars.usda.gov

“Meerow, Alan” <Alan.Meerow@ARS.USDA.GOV>

NonNeutral SSR loci answers

What follows are the replies that I received to my evoldir query regarding apparently non-neutral microsatellite loci. For privacy’s sake, I have dropped people’s names. Thanks to all who provided responses.

My original post: “Most analyses of population genetic variation and structure in populations assume the neutrality of the markers used. There are a number of software tools that test for selection on loci, with LOSITAN (which uses the It uses the FST-outlier method (Vitalis et al. 2001; Beaumont 2005) my preferred tool. In a data set of 31 microsatellite loci, as many of as six test as being significantly under either balancing or positive selection across my samples. I would just like to get a feel for whether the community at large, faced with such a scenario, would 1) advocate dropping those loci from the data set, 2) leaving them in or 3) presenting analyses both with and without those loci included. My question is asked from the standpoint of presentation in publication - I intend to analyze both the full and trimmed data set for my own interests in how non-neutral loci affect population genetic analyses.”

Responses:

I would be cautious with only using the classical Fst method (for example LOSITAN) for detecting loci under selection. The classical methods for detection

of loci under selections are based on simulating a FST-null distribution across all loci and from this detect loci that lie outside the credibility region, and therefore assumed to be under selection. These methods apply a simple demographic model such as coalescent-based approach assuming genetic drift to be the contributor to differentiation among populations; outliers are therefore taken as evidence of selection. Novel methods (such as BAYESCAN ver. 2.01 (Foll and Gaggiotti, 2008)) extent the classical approach to include dynamic processes such as gene flow are based on detection of LD among pairs of loci. The demographic models are more advanced and more realistically describing ecological scenarios, including migration among subpopulations. The degree of differentiation (FST) decomposed into a locus¬ – $specificcomponent(alpha), sharedbyallpopulations, andapopulation-$ $specificcomponent(beta), sharedbyallloci.Selectionisassumedwhenalphaisnecessaryforexplainingtheobservedpatternofdive$

I guess I'd say your results are probably evidence that the method used to identify "positive selection" is junk (like most such methods). Almost certainly false positives...

I would look into how your loci are segregating your samples. You could do PCAs or correspondence analyses of the allele distributions among your samples and see how they segregate for each marker, then you can compare what your presumably neutral and what your presumably selected markers are doing. If segregation is the same among all markers (i.e. throughout the genome), then I would say you do not have selection, just some markers that are particularly good at picking the biological signal, and thus, in my opinion, all markers should be included into the estimation of differentiation. If you neutral markers all segregate your samples one way, but your outlier loci do it another (or several other ways), then you may have selection, and I would report your neutral differentiation, and the differentiation due to "selected" markers.

It depends on the impact on the results and the amount of data you have. I definitely prefer to check it. Often the impact for the final conclusions is very limited and can be noted verbally. (Well, dendrograms are notoriously instable, but one does not need them anyway.) You might want to do some more realistic simulations to explore other confounding factors such as sampling from a spatially structured population, founding events and so on.

I would suggest excluding these 6 loci since you will have many left. I would also check what each non neutral ones says. I would also check the repeat motive. Trinucleotides are more likely to be non neutral than dinucleotidic loci. I would also, if possible try to know where these loci come from in the genome (in a coding sequence etc...).

I would strongly recommend to at least report the outlier results and subsequent results with and without them.

I would definitely analyse data with and without. In my experience, this will likely change things. But it might only affect only some of the populations analysed (which is reasonable if any such locus is indeed affected by some local selective force specific to some area of your study). If the loci "potentially under selection" do change the picture quite a bit, you would need to check on BLAST if they are anywhere near a genomic region that has some functional implication. Please also

— / —

Nonrandom sampling correction

Dear colleagues,

I have done some diversification analyses in a group of organisms which is undersampled and I would like to apply a test to check if non-random sampling is biasing the MCCR test results. A recent paper (Brock et al. 2011 Syst. Biol.) describes a method to assess the sensitivity of the MCCR test results to different levels of non-random sampling, the alpha NRS test, but I am not sure how to implement it. Does anyone have an idea on how it is implemented?

Thanks for the help.

Ramiro

Dr. Ramiro Morales-Hojas Molecular Evolution Lab Instituto de Biologia Molecular e Celular (IBMC) University of Porto Rua do Campo Alegre 823 4150-180 Porto Portugal

e-mail: rmhojas@ibmc.up.pt tel.: +351226 074 900 ext 1612 https://sites.google.com/site/ramiromoraleshojas http://evolution.ibmc.up.pt/ rmhojas@ibmc.up.pt

Parentalcareandkinselection?

Dear colleages,

May I use parental care as an example of kin selection?

When reading about kin selection in several evolution textbooks I cannot see parental care behaviour as a kin selection example!

Thanks for any comment!

Voltolini

Prof. Dr. J. C. VOLTOLINI Universidade de Taubate - Departamento de Biologia Taubate, SP. 12030-010. E-Mail: jcvoltol@uol.com.br * Grupo de pesquisa ECOTROP CNPq: http://-dgp.cnpq.br/buscaoperacional/detalhepesq.jsp?pesq=-8137155809735635 * Currículo Lattes: http:/-/lattes.cnpq.br/8137155809735635 * Fotos de Cursos e Projetos no Orkut e Facebook: http://www.orkut.com.br/Main#Profile?uid=-17608429643840608483 http://www.facebook.com/-VoltoliniJC?v=info "Siamo tutti angeli con un'ala e possiamo volare soltanto se ciabbracciamo"

VOLTOLINI <jcvoltol@uol.com.br>

Pest flower interactions

Dear all

We are currently putting together a comprehensive review on the effects of flowering plant food resources (floral and extrafloral nectar, pollen, honeydew from aphids on the flowering plants) on adult insect pests and their associated (hyper-)parasitoids. We are considering both lab studies, usually investigating effects of flowers on pest/parasitoid survival and fecundity/parasitation rate, and field studies investigating the effects of flowers in flower strips or as intercrops/companion plants on pest/parasitoid populations. Our data base is strongest in cabbage lepidopteran pests so far.

We would greatly appreciate any additional references you might be aware of on this topic. To avoid double efforts I paste a list of first authors below, whose publications we are aware of.

Thank you very much for your help!

Best Oliver

Authors:

Araj, S.E. Baggen, L.R. Begum, M., Berndt, L.A. Carrillo, D. Foster, M.A. Gourdine, Hagley, E.A.C. Ide, S. Idris, A.B. Irvin, N.A. Jacob, H.S. Jervis, M.A. Johanowicz, D.L. Jonsson, M. Kehrli, P. Lavandero, B. Lee, J.C. Manojlovic, B., Nafziger, T.D. Rahat, S., Rose, U.S.R., Syme, P.D., Teraoka, T. Vattala, H.D. Wäckers, F.L. Wade, M.R. Winkler, K. Witting-Bissinger, B.E.

– Dr. Oliver Balmer Schweizerisches Tropen- und Public Health-Institut Swiss Tropical and Public Health Institute Socinstrasse 57, 4051 Basel, Switzerland http://www.swisstph.ch/no_cache/about-us/staff/detail-single-all/staff/71/oliver-balmer.html Forschungsinstitut für biologischen Landbau (FiBL) Research Institute of Organic Agriculture (FiBL) Ackerstrasse, 5070 Frick, Switzerland, 062 865 72 75 http://www.fibl.org/de/mitarbeiter/balmer-oliver.html oliver.balmer@unibas.ch

Rapid evolution in everyday life

Hi folks,

I am writing an article for a general audience magazine about examples of rapid evolution in the context of our everyday lives (bodies, homes, backyards) and I would love your thoughts on the latest examples that you would like the people living and working around you to know about.

Obvious general areas are antibiotic resistance and pesticide resistance and rapid viral evolution but what I would love are specific relatively well worked out examples (ideally with a citation or a contact).

My desire to write this article is prompted, in part, by a recent conversation with a faculty member involved in science communication who said, during a meeting, "but there aren't any really good examples of recent evolution are there?" Rather than send him an email, I thought I would write something a bit more general.

Thank you for your help. Feel free to forward this to other folks you think might have ideas. I will share the resulting article, but will also post links to all of the

papers/ideas that are forwarded along to me.

Very gratefully,

Rob

See more science at: www.robdunnlab.com or more writing at www.robrdunn.com . Rob R. Dunn Associate Professor Department of Biology North Carolina State University Rob_Dunn@ncsu.edu

Sergios-Orestis Kolokotronis <koloko@amnh.org>

Remembering Lynn Margulis

Forwarded message from the Umass Chancellor. Sad news.

——— Original Message ——— Subject: Remembering Lynn Margulis, Distinguished University Professor Date: Wed, 23 Nov 2011 11:02:38 -0500 From: UMass Chancellor's Office <officialchancellors@admin.umass.edu> To: massmail-l@oit.umass.edu

To the Campus Community:

Lynn Margulis, an internationally renowned evolutionary biologist and one of the most prominent and distinguished members of the UMass Amherst faculty, died yesterday at age 73. Her passing is a great loss for the entire campus family.

Lynn was best known for her theory of symbiogenesis, which challenges central tenets of neo-Darwinism. She was also cited for her contribution to the Gaia hypothesis, the concept that the Earth and its living beings function as a self-regulating system.

She leaves us a legacy of academic accomplishment brought about by her original thought and tireless inquiry into multiple field of science that look at how the world functions and how that magnificent world has developed over time.

Her scholarship earned an international reputation for her as a thinker and writer dealing with complicated ideas and complex theories. Her work brought numerous accolades and awards both to her and to UMass Amherst.

Lynn was appointed Distinguished University Professor in 1988 and was a member of the geosciences faculty at the time of her death. She was elected to the National Academy of Sciences in 1983, and received the National Medal of Science in 1999 from President Bill Clinton.

Her numerous awards and honors included the 2009 Darwin-Wallace Medal, awarded at 50-year intervals by the London-based Linnean Society for significant advances in the study of natural history and evolution. She also received the Nevada Medal, Sigma Xi?s William Proctor Prize, a NASA Public Service Award, the Miescher-Ishida Prize and the Commandeur de l?Ordre des Palmes Academiques de France.

In 2009, she was among the seven honorees at the Faculty Convocation who received the Award for Outstanding Accomplishments in Research and Creative Activity given to nationally recognized faculty members. She previously received the Chancellor?s Medal, the campus?s highest award for service.

As we observe Thanksgiving tomorrow, let us reflect on Lynn?s contributions to UMass Amherst and the quest for knowledge, for which we are grateful.

Robert C. Holub Chancellor

"Sean F. Werle" <swerle@ent.umass.edu>

Software Nemo QuantiTraitLoci v220

Nemo v2.2.0 [29 Nov 2011]

A new version of the population genetics simulation software Nemo has been released.

In this new version, up to two genetically correlated quantitative (phenotypic) traits can be modeled, based on multiple pleiotropic and additive quantitative loci.

Selection on the quantitative traits can be spatially and temporally heterogenous. Nemo2.2.0 thus allows for the simulation of different scenarios of local adaptation and adaptive divergence among populations connected by gene flow, among other things.

The code released here forms the basis of work previously published in Evolution by Guillaume & Whitlock (2007), Yeaman & Guillaume (2009), Guillaume (2011), and Yeaman & Whitlock (2011).

Check the website for more information and downloads: http://nemo2.sourceforge.net If you decide to use Nemo, please register to the mailing list, and report bugs!

Happy simulations!

Frederic Guillaume Theoretical Biology, ETH Zurich, Switzerland frederic.guillaume@env.ethz.ch

+ + +

— What is Nemo?

Nemo is a forward-time, individual-based, genetically explicit, and stochastic simulation program designed to study the evolution of life history and phenotypic traits, and population genetics in a flexible (meta-)population framework.

Nemo implements different traits with a variety of genetic architectures, from neutral markers (msat, SNP), to deleterious mutations and quantitative trait loci (QTL), some with sex-specific expression (e.g., dispersal genes, female-inherited Cytoplasmic-Incompatibility mutations, etc.).

All this is framed within a flexible metapopulation model that allows for patch-specific carrying capacities, dispersal rates, stochastic extinction/harvesting rates, and demographic stochasticity. Populations can be dynamically modified during a simulation, allowing for population bottlenecks, patch fusion/fission, population expansion, etc. Selection on the quantitative traits can also vary during the course of a simulation and among the demes within a population.

The life cycle is also flexible, with many different events that can be included when needed (reproduction, migration, selection, crossing, regulation, etc.). Nemo also offers the possibility to output many different statistics recorded during simulation runs.

— What is the difference with quantiNEMO?

quantiNEMO (Neuenschwander et al. 2008) also implements quantitative traits. Its implementation is however based on a different mutation model (i.e., discrete number of alleles per locus versus continuum-of-allele model) and does not allow for pleiotropic loci. quantiNEMO thus doesn't offer the possibility to model genetically correlated traits. The model however allows for epistatic interactions among loci.

quantiNEMO is based on an older version of Nemo (pre-2.1.0) from which it implements the dispersal models, neutral trait, and the metapopulation framework, while improving some aspects of those elements. It however does not implement the most recent improvements brought into Nemo.

quantiNEMO can be found here: http://-www2.unil.ch/popgen/softwares/quantinemo frederic.guillaume@env.ethz.ch

Software StuctureVisualization

A new resource was recently published in Conservation Genetics Resources regarding a tool that quickly and easily parses output from the program STRUCTURE. Here is the abstract and link:

We present STRUCTURE HARVESTER (available at http://taylor0.biology.ucla.edu/structureHarvester/), a web-based program for collating results generated by the program STRUCTURE. The program provides a fast way to assess and visualize likelihood values across multiple values of K and hundreds of iterations for easier detection of the number of genetic groups that best fit the data. In addition, STRUCTURE HARVESTER will reformat data for use in downstream programs, such as CLUMPP.

http://www.springerlink.com/content/-jnn011511h415358/ Bridgett vonHoldt University of California, Irvine Ecology & Evolutionary Biology

Bridgett vonHoldt <bvonhold@uci.edu>

SouthAfrica Volunteer EvolutionSocialBehaviour

Field Assistant/Research volunteer

Inkawu Vervet Project, South Africa

Within the framework of a large collaborative project between the universities of Neuchatel (Dr. R. Bshary), Zurich (Drs. C.P. van Schaik & M. Krützen) and St. Andrews (Dr. A. Whiten) on the evolution of social behaviour in vervet monkeys (/Cercopithecus aethiops/), the Inkawu Vervet Project is currently looking for highly motivated field assistants. Applicants that want to use this opportunity as a jumping board to help them pursue a post-grad degree (MSc. or PhD) in Behavioural Ecology, Anthropology, Evolutionary Psychology or any related field are especially encouraged to apply.

Assistants will help 2 PhD-students and 1 on-site postdoc with the habituation of and data collection on a targeted 10 groups of wild vervet monkeys at our field-

site in Kwazulu-Natal, South-Africa. Behavioural data (both observational and experimental) and invasive genetic samples (ear-clips) are currently collected on 6 groups (each equipped with GPS/VHF loggers), with an additional 3 groups already identified for habituation in the near future.

Assistants are expected to spend a minimum of 6 months in the field in order to qualify for full financial compensation of travel expenses to South Africa, on-site lodging and meals. Assistants available for shorter periods are also welcome to apply, but will not have these expenses fully reimbursed. All applicants are responsible for their own field equipment (hiking shoes, bush clothes, rain gear, etc.), as well as vaccinations and travel insurance. Research equipment (handheld computers, binoculars and VHF-receivers for telemetry) are provided.

Successful applicants are proficient in English, have excellent social skills, and are able to work within a large, interdisciplinary research team under field conditions.

Applications consisting of a motivation letter (1 page) and curriculum vitae (up to 2 pages) can be sent electronically to Erik Willems (e.willems@aim.uzh.ch) who can also provide additional information upon request.

Dr. Erik P. Willems Postdoctoral Researcher Anthropological Institute and Museum University of Zurich Winterthurerstrasse 190 8057 Zurich Tel: +41-(0)4463 55435 Fax: +41-(0)4463 56804

"Erik P. Willems" <e.willems@aim.uzh.ch>

TheDiversityProject MarineBiodiversity

Dear Colleagues,

For the eighth consecutive year, we will be running The Diversity Project, an NSF funded research opportunity designed to increase participation of under-represented undergraduate students in the marine sciences. In collaboration between UCLA and Old Dominion University, students will integrate hands-on field research in the Coral Triangle with cutting edge genetic research. The project will explore the origins marine biodiversity in the Coral Triangle in an effort to improve conservation of this remarkable ecosystems. Students are fully funded for both living and travel expenses. This year our destination is Bali, Indonesia. Visit http://-www.eeb.ucla.edu/Faculty/Barber/Intro.htm for more information and on-line application.

This research opportunity has been a remarkable personal and professional experience for the students who have participated. Please encourage any students whom you believe would benefit from such an experience to apply. Applications are due January 1, 2012. For further information, please contact Dr. Paul Barber (paulbarber@ucla.edu). We look forward to hearing from you.

Sincerely, Paul Barber

Dr. Paul H. Barber Boston University Boston University Marine Program 5 Cummington St. Boston, MA 02215 617-358-4589 office 617-358-4590 lab 617-353-6340 FAX pbarber@bu.edu http://people.bu.edu/-pbarber/ Paul Barber <paulbarber@ucla.edu>

TimeSeries MicroarrayData

My research group is having trouble analyzing unevenly sampled microarray time series data. We are using the Meltzerlab GEO Microarray tool search for our research, and there are some samples that are unevenly distributed for some time points. For example, GDS63 (GDS accession number) has 5 microarray datasets at the time point of 3 days, whereas there are 14 of microarray datasets at the time point of 7 days. The literature does not explain how the authors analyzed the uneven samples, and we are wondering if there is any software/ algorithms/ protocol that enables researchers to compare the samples. It would be really great if we can get some inputs for this issues.

Please contact to the following email: kutsumiy@mail.gvsu.edu

Yuka Kutsumi Grand Valley State University

Yuka Kutsumi <kutsumiy@mail.gvsu.edu>

TimeTree needs your data

Www.timetree.org is a dynamic public knowledgebase that enables data-driven access to the collection of peer-reviewed publications in molecular evolution and phylogenetics that have reported estimates of time of di-

vergence between species.

Hundreds of authors have already contributed to our collection of over 1200 studies, whose results have been accessed by thousands of individuals (scientists and general public). More than 250,000 queries were launched in the last 12 months. So, WE INVITE YOU to make your results easily accessible to everyone and be a timetree contributing author. Please contribute your published times of published times of divergence among populations or species.

We need coded tree files in a text file (Newick, NexML, or other formats) with divergence times at nodes. Email us at timetreeoflife@gmail.com with that file and a citation or web link of the associated article (or PDF). Any publication date and any number of taxa are OK. Visit this link to see if we already have or are already processing your study: http://www.timetree.org/reference_list.php (or, inquire at timetreeoflife@gmail.com).

Thank you!

The TimeTree team (www.timetree.org) Contact Allie Shoffner at timetreeoflife@gmail.com

Blair Hedges and Sudhir Kumar

sbh1@psu.edu

TimeTree version3 released

Www.timetree.org maintains a dynamic and growing Tree of Life scaled to time (timetree), based on a composite of published studies, now > 1200. More than 25,000 node times and taxa are searchable in a user friendly interface by specifying two names. Published times are displayed in the geological context.

What's new: -New free app now available for iPhone/iPod -New mobile-friendly web display for easy use on any smartphone device (e.g., Android) -Web interface redesigned for better accessibility of results.

What's next (2012): -Coming up: TimeTree Navigator to explore the resident Tree-of-Life and phylogeny -Coming up: A new interface to generate phylogeny and times for a given set of taxa

Educational uses: -We have added new servers to keep up with increased use of TimeTree in college and high school courses (see American Biology Teacher 73:106-108, 2011). Suggestions are welcome for better usability (info@timetree.org).

TimeTree of Life Book and poster (free) -All chapters (PDFs) of the Timetree of Life book (Oxford University Press) are free, including PowerPoint figures for education purposes. Professionally offset-printed posters (circular tree-of-life) are free and can be ordered online.

Blair Hedges and Sudhir Kumar www.timetree.org (see Bioinformatics 27:2023-2024, 2011)

sbh1@psu.edu

UTexasAustin Undergrad Switchgrass

Applicants are sought for the The University of Texas at Austin Switchgrass Summer Research Program. This program is an opportunity for undergraduate students to participate in mentored independent research on the biology of switchgrass. The program is funded through the NSF Research Experience for Undergraduates (REU) program and is associated with ongoing interdisciplinary work on the ecology, physiology, and genomic responses of switchgrass (Panicum virgatum), a potential biofuel crop, to future climate change.

Summer students will be immersed in research and learn basic and applied biology through active participation. Working as part of our research team, they will contribute to group research projects, design short research projects, and present their work in an end-of-summer student symposium.

Placements are available in research groups headed by the following UT Faculty: - Dr. Tom Juenger (http://w3.biosci.utexas.edu/juenger_lab/), - Dr. Christine Hawkes (http://www.sbs.utexas.edu/hawkeslab/), - Dr. Tim Keitt (http://www.biosci.utexas.edu/IB/profiles.aspx?id=1966)

SCHEDULE AND SUPPORT Each REU position is supported for ten weeks, with a stipend of $4,500. The program runs from the first week in June until the first week of August 2012. Students will be housed in a UT dormitory, and the costs of the dormitory and meal plan are included in the program. Some funds will be available to help defray the cost of traveling to Austin.

WHO SHOULD APPLY? Students in their sophomore or junior years of college, with strong credentials and majoring in ecology, biology, genetics, or related disciplines are encouraged to apply. Participants must be U.S. citizens or permanent residents. Fieldwork in hot and humid conditions will be required.

APPLICATIONS The application deadline is February 15 2012. Applicants should submit a cover letter describing experience, interests and future career plans, along with a copy of their transcripts. Applicants should also ensure that two letters of recommendation are submitted on their behalf. Only applications that are complete will be considered. If acknowledgement of receipt is required, please request this in the application. Applications and requests for further information should be directed to:

Dr. Sam Taylor email: samuel.taylor@mail.utexas.edu mail: 1 University Station CO930, Austin 78712

Dr. Samuel Taylor Post Doctoral Research Associate Section of Integrative Biology University of Texas at Austin

samuel.taylor@mail.utexas.edu

WillametteU VolFieldPosition

The Smith lab at Willamette University is seeking 3-4 volunteers to participate in field research studying the pollination biology and coevolution of Joshua trees (*Yucca brevifolia*) and yucca moths (genus * Tegeticula*) from late March to mid April of 2012. Volunteers will assist in the completion of pollination experiments in a plant hybrid zone located in central Nevada. Participation will require living at a remote field site continuously for approximately four weeks. Cost of transportation to the field site will be covered and food will be provided while in the field. Additionally, volunteers will receive a modest stipend.

Successful applicants will be of above-average physical fitness (i.e., capable of walking over 10 miles per day while carrying heavy and awkward loads, climbing a 6' ladder, and lifting 40 lbs) and be enthusiastic about living and working closely with others in challenging conditions. The field site has no running water, little opportunity for personal space and time, and no phone/internet services. Daily temperatures may drop below freezing or exceed 90 F. Wind and sandstorms are very common.

Volunteers must have an educational background in biology or a related field (there is no degree requirement, but a familiarity with ecology and natural history is necessary, and must provide their own camping equipment. Essential gear includes a fully-sealable tent capable of withstanding strong winds, a sleeping pad, a sleeping bag rated to 20 degrees F, and backpack with at least a 40 liter capacity.

Prospective volunteers should submit a CV or resume, the name and contact information for one or more professional references, and a letter describing their interest in the project by email to Ramona Flatz, rflatz@willamette.edu. Please include the words 'Volunteer Field Assistant' in the subject line of your message. Screening of applicants will begin on December 12th, 2011, and continue until all positions are filled.

More information about our research is provided in the following links: http://www.willamette.edu/~csmith/-ChrisSmith.htm http://www.nsf.gov/discoveries/-disc_summ.jsp?cntn_id=115956&org=NSF Ramona Flatz <rflatz@willamette.edu>

PostDocs

Beijing Bioinformatics

Postdoctoral position in bioinformatics of high throughput DNA sequencing

Organization:

Beijing Institute of Genomics, Chinese Academy of Sciences

Job Location: Beijing, China Job Description:

Postdoctoral position is available at the Beijing Institute of Genomics (BIG) of Chinese Academy of Sciences(CAS) funded by National Nature Science Foundation of China (NSFC). Initial appointment is for one year that could be extended for two and possibly more years based on research progress. The position will be available to commence January 1st, 2012.

BIG is one of the premier genomic research institutes in China.BIG is equipped with high throughput DNA sequencing(SOLID, IlluminaHiSeq 2000 and 370 sequencers), rapid genotyping, and high-performance computingplatforms. The position is in the group of Dr. Chung-I Wu with direct response to Dr. Alexander Tchourbanov.

Requirements:

The primary focus of the research will be on detecting and explaining the aberrant splicing events induced by common and de novo genetic variants. The research project will involve routine processing of high volumes of next generation sequencing data. Further data analysis based on probabilistic models will assess possible disease associations for discovered variants.

For consideration, applicants must:

âHave PhD in bioinformatics, statistics, computer science and other similar fields âHave demonstrated experience in analysis of the next generation sequencing data âBe experienced in with programming in Java, C/C++, Python, Perl or similar languages and be familiar with Linux OS âHave peer-reviewed publications in high-quality international journals

Skills of additional interest include:

âExperience in statistics (including R) and probabilistic models/machine learning âExperience with constitutive and alternative splicing âAbility to program in Java and one of the scripting languages (bash) âFamiliarity with DBMS such as MySQL

The working language is English, therefore excellent speaking, reading and writing skills are required. For further information please contact Dr. Alexander Tchourbanov at atchourb@nmsu.edu

Contact Information:

The application files in PDF format should be e-mailed to atchourb@nmsu.edu and carbon copied to job@big.ac.cn. The application package needs to include:

âCover letter with brief statement of research interests âCurriculum vitae âList of publications âUniversity transcripts âContact details for 2 persons for references

The application will be evaluated by one or more experts. Only these candidates whose applications went through initial screen will be contacted with further instructions.

About Our Organization:

Beijing Institute of Genomics (BIG), founded in 2003 and now with over 417 employees and graduate students, is a unique genomics-based CAS life science institute. Genomics has tremendous impact on biomedicine, agriculture, pharmacology and environmental sciences. The mission of BIG is to identify new biological processes and disease-relevant mechanisms in a variety of areas, including human diseases genomics and individualized medicine, domestic animal and plant genomics, genome sequencing and sequencing equipment development, bioinformatics and computational biology, system and synthetic biology. BIG aims to become one of the worldâs leading genomics research institutions, we also provide masters and Ph.D degree program majored in Genomics, Bioinformatics, Genetics, Biochemistry and Molecular Biology.

BIG built up sequencing facility with nine SoLid, five Solexa, one 454, two Hiseq2000 and three 3730 sequencers, with 30 trillion CPS computing capacity. By combining with other well-established state-of-the-art technologies such as genomics and proteomics tools, structural genomics and forward/reverse mammalian genetics, high-throughput screening of genomics reagents or compounds, the research capabilities of BIG are able to cut cross the vast spectrum of life sciences.

At BIG, scientists are encouraged to pursue innovative basic and translational research in a highly collaborative environment. BIG fosters active partnerships with researchers at domestic or international academic institutions, non-profit foundations and national granting agencies. BIG is located in the CAS life science research hub: namely, Olympic Green Life Science Park, within walking distance of numerous other research excellence centers. This unique environment potentiates a wide range of scientific interactions through seminars and collaborations. With the ambition of becoming an internationally renowned genomic organization, BIG is calling excellent scientists and students around the world to join us in this exciting and promising research field.

http://www.genomeweb.com/node/986376 Thanks,

Alexander Tchourbanov

Alexander Tchourbanov <atchourb@nmsu.edu>

CarletonU HumanPopulationGenetics

Health Canada and the Public Health Agency are studying the associations among genetic polymorphisms in folate and B vitamin metabolic genes, dietary folate intake and folate status in the Canadian population. We are looking for someone with experience in genetics, especially population genetics and with an interest in the application of population genetics in public health and nutrition. The position would be for 1 year with the possibility to renew for one additional year. Please refer to the NSERC Visiting Fellowship application website to determine your eligibility to apply. If you are interested, please contact Amanda MacFarlane at amanda.macfarlane@hc-sc.gc.ca . Applications should be submitted soon. Please find a general project description below. The modifying effect of genetic polymorphisms involved in folate and B12 metabolism on the relationship between folate/B12 intake and vitamin status Folic acid (FA) supplementation in the peri-conceptional period prevents neural tube defects (NTDs), including spina bifida. Health Canada (HC) recommends that women of childbearing age take a supplement containing 0.4mg FA/day. Despite significant public health promotion, only a minority of these women take FA supplements. Therefore, HC mandated the addition of FA to white flour in 1998 to increase intake in this target population. However, it has also resulted in exposure of the general population to unprecedented levels of FA. While HC’s current policies have led to a significant reduction of NTDs in Canada, almost one quarter of women of childbearing age still have levels below optimal for significant reduction in NTD risk. Conversely, approximately 40% of the Canadian population has a high folate status indicative of excessive dietary intake of FA. There is accumulating evidence linking high FA intake with increased risk for some cancers, anemia, cognitive decline and other chronic diseases. Our goal is to identify genetic signatures that are associated with hypo- or hyper responsiveness to dietary FA intake, as indicated by folate status. B12 metabolism is inextricably related to and significantly impacts folate metabolism. Therefore, we will devise a method to relate usual FA and B12 dietary intake with folate and B12 status from data collected in the Canadian Health Measures Survey. Genes associated with folate and B12 metabolism will be sequenced to identify gene variants associated with aberrant folate and B12 status as it relates to dietary intake. This will be the first study to identify individuals within the Canadian population that may be genetically susceptible to the effects of FA over-consumption. Amanda MacFarlane, PhD Research Scientist Nutrition Research Division Food Directorate Health Canada

Alex Wong <Alex_Wong@carleton.ca>

CharlesU Prague CrustaceanGeneticVariation

POSTDOC WANTED with interest in

Genetic variation of model taxa of crustaceans and their associated (micro)parasites

A funding for one junior post doc (less than 3 years since acquiring PhD) is available for 34 months starting in April 2012, in the group of Adam Petrusek at the Department of Ecology, Charles University in Prague. The research of the group focuses mostly on diversity, evolution, and ecology of two groups of crustaceans cladocerans (mainly Daphnia) and freshwater crayfish. Furthermore, we are interested in interactions of these crustaceans, as hosts, with certain microparasites (in particular, an oomycete Aphanomyces astaci causing crayfish plague, and microsporidians infecting Daphnia). In our projects, we collaborate with a number of groups in various European countries.

The postdoc who will join our group should contribute to these research questions by genetic analyses of populations of selected crustacean species complexes, focusing on questions such as spatial distribution of evolutionary lineages and phylogroups, patterns on interspecific hybridisation between coexisting related taxa, impacts of parasitism on genetic variation of host populations, etc. Variety of molecular approaches is likely to be used, such as standard sequencing, microsatellite analyses, DNA-based pathogen detection (including real-time PCR), or AFLP. The exact topics of the postdoc project will be specified based on the know-how and interests of the candidate, and might be either cladoceran- or crayfish biased; however, he/she is expected to work with both groups of models, and master additional methods. To facilitate this, funding for two 3-month stays of the postdoc with collaborating groups in other European countries is secured.

The ideal candidate for this position has strong background in animal ecology and evolutionary biology (an experience with host-parasite interactions is a plus), has experience with various DNA laboratory methods and analysis of resulting data, and is willing to learn new methods and contribute to both field- and labwork. Furthermore, the postdoc is expected to organise one workshop a year for students and academic personnel out of Prague, for transfer the know-how. Good knowledge of written and spoken English is essential for candidate of any nationality (this language is fully sufficient for living in Prague and working at the department). The department has suitable facilities for the DNA work in a recently refurbished lab, access to well-equipped genomic and proteomic service labs, and a stimulating working environment within a young team. The building where the department is located is in the historical centre of Prague, within the UNESCO World Heritage area.

The gross salary of the postdoc is 40.000 Czk/month (ca 1600 EUR), and may increase based on his/her achievements during the project (note that living expenses in the Czech Republic are generally lower than in Western European countries.)

If interested, send a letter of interest outlining your past research, motivation for this position and specific experience (max. 2 pages), CV, list of peer-reviewed publications, abstract of PhD thesis, and contact details of 2-3 senior scientists who may provide a reference in a single (!) PDF file to petrusek@cesnet.cz. Note that only those who finished the PhD since February 2009 are eligible! Pre-selected candidates will be asked to submit their applications through a formal university selection procedure, and invited for an interview.

petrusek@cesnet.cz

CNRS Toulouse BioinformaticsTranscriptomics

CNRS France_Bioinformatics_transcriptomics

We are opening a postdoctoral position to work on a collaborative project between the Station of Experimental Ecology of the CNRS (French National Center for Scientific Research) and the Bioinformatics Plateform of the Genome Center in Toulouse (Plateforme GenoToul Bioinfo), France. The position is available for one year, renewable once.

The research developed at the Station of Experimental Ecology (http://www.ecoex-moulis.cnrs.fr/) aims to understand the impact of environmental changes (e.g., climate change) on natural populations, using species such as butterflies and lizards as model systems. In today's rapidly evolving landscapes, we expect dispersal to play a particularly crucial role in allowing organisms to cope with changing environmental conditions, yet how, and how rapidly organisms may respond to selection on mobility remains currently unknown. Our

aim is to improve our understanding of the mechanisms underlying the adaptive responses of organisms to increased selective pressures on mobility, in order to develop more realistic predictive models of population dynamics and species persistence.

The bioinformatics plateform is one of 12 plateforms of the Genome Center in Toulouse (http://-bioinfo.genotoul.fr/), which assists research teams with data processing and data storage, and provides access to generalist and specialist data banks and bioinformatics software.

The postdoctoral position offered is funded by a French ANR grant obtained to better understand variations in the locomotor abilities of lizards, butterflies and frogs using genomic, transcriptional, physiological and ecological approaches. To do so, we will be sequencing the transcriptomes of the lizard (/Lacerta vivipara/) and the butterfly (/Pieris brassicae/) using 454 technology, to use as references in future genomic studies. The successful candidate will work in close collaboration with both teams at the Station of Experimental Ecology and at the Bioinformatics Plateform and will be in charge of the assembly of the sequence data, identification of SNPs associated with phenotypic variation, and potentially, gene expression analyses of RNA seq data.

In addition, the successful candidate will be in charge of analyzing and interpreting results, and will also be involved in the writing of research reports and scientific papers.

Ideal candidates will have a Ph.D. in transcriptomics, bioinformatics, or other relevant field, proven research experience and a strong publication record.Candidates should be comfortable working in a UNIX environment, have a strong programming background, be proficient in working with large datasets and have solid analytical, computing and statistical skills.

To apply for these positions, please send an email with a single collated PDF including (1) CV, (2) names and contact information of three references, (3) statement of research interests, to Michel Baguette (baguette@mnhn.fr) by January 15, 2012. The position is expected to start in April/May 2012.

Best regards

Delphine Legrand

Delphine Legrand USR2936 Station d'Ecologie Experimentale du CNRS à Moulis 09200 Moulis Tél : (33)5 61 04 03 77

Delphine Legrand <legrand@dr14.cnrs.fr>

CornellU HumanPopulationGenomics

Postdoctoral positions in human population genomics and sequencing-based association studies at Cornell University

Two postdoctoral positions are available with Alon Keinan in the Department of Biological Statistics and Computational Biology at Cornell University to join a group of investigators tackling current problems in population genetic analysis of whole-genome data and in sequencing-based association studies. Research areas include (1) human population genetics and evolutionary history, method development for analysis of next-generation sequencing data sets, natural selection detection and characterization, and population genetics theory, and (2) method development for association studies, analysis of GWAS, and analysis of association studies based on whole-genome and whole-exome next-generation sequencing. Representative publications from the lab of related projects can be found below. Research projects will be closely aligned with the interests of the successful candidates.

The ideal candidate will have a strong track record in population genomics, quantitative genetics, or human genetics, as well as strong statistical and programming skills. The starting date is flexible and can be as early as Jan 2012. Applications will be accepted until the positions are filled. Competitive salaries commensurate with experience and skills, as well as a generous benefits package will be offered.

Relevant projects are in collaboration with the labs of Eric Boerwinkle (University of Texas), Carlos Bustamante (Stanford University), Andrew Clark (Cornell), and Adam Siepel (Cornell). The Keinan lab is part of the larger population genomics community at Cornell and is a member of the Cornell Center for Comparative and Population Genomics.

Interested applicants should send a PDF with CV, a brief description of research interests and experience, and contact information for three references to Mrs. Shawna Carey (sls68@cornell.edu), indicating "position 204" in the subject line. Informal inquiries are welcome.

Representative publications:

Analyses of X-linked and autosomal genetic variation in population-scale whole genome sequencing. Nature Ge-

netics (2011). (highlighted in Science: X-tra Diversity for Africans, by Ann Gibbons)

Integrating common and rare genetic variation in diverse human populations. Nature (2010).

Human population differentiation is strongly correlated with local recombination rate. PLoS Genetics (2010).

Accelerated genetic drift on chromosome X during the human dispersal out of Africa. Nature Genetics (2009). (News and Views: Evaluating signatures of sex-specific processes in the human genome, by Carlos Bustamante & Sohini Ramachandran)

Alon Keinan, PhD Robert N. Noyce Assistant Professor in Life Science and Technology Department of Biological Statistics & Computational Biology 102C Weill Hall | Cornell University | Ithaca, NY 14853 ak735@cornell.edu | 607-254-1328 phone | 607-255-2323 fax http://keinanlab.cb.bscb.cornell.edu/

Helsinki AntLifeHistory

Post-doctoral (3 years) position in Helsinki, Finland

A three-year postdoctoral position is available at the Department of Biosciences, University of Helsinki, Finland. The starting date is flexible between 1.1 â 1.4 2012. The main topic is social immunity, life history trade-offs and host-parasite interactions in the ant Formica exsecta. The approach entails field work, laboratory experiments and extensive genetic/genomic analyses. The main part of the work will use a population subject to long-term monitoring for fitness-correlated traits, dispersal patterns, and demography.

The research group in Helsinki comprises three collaborating research teams, including faculty, other post docs and PhD students (see links below). As of 2012 we are also part of a Finnish Centre of Excellence, with the other partners located at the University of Jyväskylä (Johanna Mappes and Jaana Bamford), and Australian National University (Hanna Kokko). The successful applicants will have the opportunity to develop additional questions related to the main research program in collaboration with other members of the CoE as well as collaboration partners at other institutes.

We are looking for a strongly motivated candidate with a PhD in the field of Evolutionary Biology and Ecology, or related disciplines. Experience especially in gene expression analysis and sequence analysis is essential. Experience in host-parasite interactions, insect immune assays, statistics and strong written and oral communication skills are a bonus. He/she is expected to take an independent role in collecting and processing the data and compiling the results into publications. Salary ranges between â¬3000 − 3500*bruttopermonth*.

Applications will be reviewed starting December 10th until the positions are filled. The earliest start date is January 1st 2012, the actual starting date is negotiable.

Applications should be sent to Lotta Sundström (biotiede-bioint@helsinki.fi), and include: (1) a cover letter describing your research interests and qualifications, (2) a full CV, (3) contact information (email, phone number) of 2 referees, and (4) pdfs of up to three representative publications. Please include Â≪postdoctoral applicationÂ≫ in the subject line of the e-mail. Informal inquiries are welcome, but not between November 26th and December 9th.

Links:(http://www.helsinki.fi/biosciences/-ecologyandevolutionarybiology/research.htm); http://-www.helsinki.fi/science/ants/Antzz.html)

Lotta Sundström <liselotte.sundstrom@helsinki.fi>

Leipzig ComputationalBiol

PostDoc - Biotic Ecosystem Services...and more

The Department of Computational Landscape Ecology (www.ufz.de/cle < http://-biogeography.blogspot.com/www.ufz.de/cle >) invites applications for an Researcher (PostDoc) m/f code digit: 85/2011 to commence as soon as possible. The appointment is for an initial period of 3 years, an extension is aspired.

The candidate is expected to further develop the research on biotic ecosystem system services by establishing a model-based analysis that quantitatively shows how land use intensity and structure on a regional scale affects constituents of biological, supporting ecosystem services (such as bio, pollination, seed dispersal etc.) and how these affect final regulating or provisioning services. This analysis aims at providing process based understanding on trade-offs that occur between land, land use intensity and a variety of ecosystem services and identifies optimum land use patterns for supporting regional resource management of ecosystem services.

The researcher has the opportunity to develop a re-

search group within the department. He/she is expected to supervise PhD and undergraduate students and to apply for 3rd party funding on the topics described above. Furthermore, research results should be published in international peerjournals. Cooperation within the department, the UFZ and projects in its recent research program are mandatory.

Applicants for the post have a background in biology and ecology profound knowledge on ecosystem functioning. Good experiences in model development and programming, data analysis and advanced statistics are obligatory as well as the ability in working with spatial/temporal explicit data. We expect very good written and oral communication skills in English and a publication track record in peer-reviewed journals. Ability for working in international interdisciplinary team is obligatory.

We offer excellent research opportunities within an interdisciplinary, international team, located in a very pleasant city. Funds for support through students internships. The place of work is Leipzig, Germany. Salary will be according to the appropriate civil service level, salary group 14 TVÖD (http://oeffentlicher-dienst.info/tvoed/bund/), depending on personal preconditions. The UFZ is an equal opportunity employer. Women are explicitly encouraged to apply to increase their share in science and research. Physically handicapped persons will be favoured if they are equally qualified.

Further Information: Prof. Dr. Ralf Seppelt (ralf.seppelt@ufz.de) Please send your application with curriculum vitae, certificates of academic degrees and reprints of most important publications under the code digit 85/2011. Please email your application with all documents in a single pdf-file that states your name and the reference number of this job description (e.g. Smith_Peter_85_2011.pdf) to application@ufz.de, or by mail to: UFZ, personnel department, P.O. Box 500136, D-04301 Leipzig, Germany.

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Dr. Marten Winter / Researcher Biozönoseforschung / Community Ecology

Helmholtz-Zentrum für Umweltforschung GmbH - UFZ Helmholtz Centre for Environmental Research GmbH - UFZ Theodor-Lieser-Str. 4 / 06120 Halle (Saale) / Germany Telefon +49 345 558 5316 / Fax +49 345 558 5329 marten.winter@ufz.de / www.ufz.de/index.php?enp81 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: N.N.

"Facts are meaningless! You could use facts to prove anything that's even remotely true!" (Homer Simpson)

Marten Winter <marten.winter@ufz.de>

LouisianaStateU HIVPhylogenomics

POSTDOCTORAL RESEARCHER Louisiana State University Department of Biological Sciences

A postdoctoral researcher position is available in the computational evolutionary biology lab of Jeremy M. Brown. This position is part of a project funded by the National Institute of Justice to further investigate the forensic application of phylogenetic approaches for reconstructing HIV transmission histories. This project will expand upon previous work by utilizing whole-genome sequences and applying more sophisticated statistical phylogenomic approaches. The Brown lab will be collaborating extensively with the Metzker lab at Baylor College of Medicine. Informal inquiries are encouraged and can be directed to jembrown@lsu.edu. More information on the Brown lab is available at http://www.phyleauxgenetics.org/ . Responsibilities: This position will be responsible for performing cutting-edge research on phylogenetic analysis of HIV genomes for use in forensic and epidemiological settings. Responsibilities will include the creation of new bioinformatics tools, running analyses on high-performance computing resources, writing manuscripts, and supervising graduate and undergraduate student workers.

Required Qualifications: Ph.D. or equivalent degree; experience performing phylogenetic analyses.

Additional Qualifications Desired: Experience with Unix and one or more of the following programming languages: C++, Java, Python; experience using high-performance computing resources. An offer of employment is contingent on a satisfactory pre-employment background check. Application review will begin on December 9, 2011 and continue until a candidate is selected. Apply online and view a more detailed ad at: www.lsusystemcareers.lsu.edu. Position #012809.

The anticipated start date is as early as January 1.

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Quick link at ad URL: https://-lsusystemcareers.lsu.edu/applicants/-

Central?quickFind=3D53795 Jeremy M. Brown Assistant Professor Louisiana State University Dept. of Biological Sciences 202 Life Sciences Building Baton Rouge, LA 70803

(225) 578-1745

http://www.phyleauxgenetics.org/

LundU InsectHostRaceEvolution

Postdoc in Insect Chemical Ecology with The Pheromone Group, Department of Biology, Lund University, Sweden

Content: The work will involve studies of chemical communication and its possible role in host race evolution in insects. The main project will involve analyses of host race formation and possible sympatric speciation in the Browntail moth, Euproctis chrysorrhoea, but other insect-host associations may also been explored. Main tasks will be to analyse the genetic variation within and among populations, including insect collection and rearing, DNA-extraction, PCR, and phylogenetic analysis of sequence data. Additional studies may involve chemical (GC and GC-MS) analyses of female pheromone content, electrophysiological recordings and behavioural studies of male responses and field trapping experiments. The field experiments will take place in the southern part of Europe.

Starting date: January 1, 2012, or as soon as possible.

Qualifications: Candidates should be fluent in spoken and written English and hold a Ph.D. in a relevant field of biology. He/she should also have a strong background in population genetics theory, and proven skills in performing molecular genetic investigations. Experience from work with insects and chemical ecology is a merit, as is a driving licence.

The postdoc will join an active research group of about 15 members focusing on basic and applied aspects of insect chemical ecology (http://www.lu.se/-pheromonegroup), based at the Department of Biology (http://www.lu.se/biology), which has a rich and international tradition in research and education within a wide range of research areas. The department is located close to the centre of the medieval town of Lund (http://www.lund.se/en/).

The successful applicant will receive a one-year postdoctoral fellowship, with a possible extension of a second year. The stipend (no tax) is 20,000 SEK, approximately 2100, per month. Interested candidates should send a cover letter summarizing their research background and interest in the position, CV, and contact information of three potential referees as a single PDF file to Olle.Anderbrant@biol.lu.se

Last date of application: November 30, 2011

Questions should be directed to: Olle.Anderbrant@biol.lu.se

Olle Anderbrant, Prof. telephone +46 (0)46 2224997 Department of Biology mobile +46 (0)70 3724997 Lund University Sölvegatan 37 telefax +46 (0)46 2224716 SE-223 62 Lund e-mail Olle.Anderbrant@biol.lu.se Sweden

internet http://www.lu.se/pheromonegroup/people/-senior-scientists/olle-anderbrant Olle Anderbrant <olle.anderbrant@biol.lu.se>

Madrid EvolutionaryTheory

Postdoctoral Position in the Theoretical Study of Evolutionary Systems:

Institutes: This is a position jointly offered by the Group of Evolutionary Systems at Centro de Astrobiología in Madrid (Dr. Susanna C. Manrubia) and by the Mathematics Department of Universidad Carlos III de Madrid (Prof. José A. Cuesta).

Profile: We seek a postdoctoral researcher with a background in Physics or Mathematics and with experience or strong motivation in the study of biological problems, mainly in the framework of Evolution. We will value previous experience in or knowledge of statistical mechanics, theoretical modeling, complex systems, networks, populations dynamics, quasispecies, and any other skill useful to develop the project. Spoken and written English at a proficiency level is required.

Project: The successful candidate will work in the theoretical and computational characterization of evolving populations. A main goal of the project is to advance in the understanding of how neutral networks affect adaptation and evolution. The model system can be RNA (sequence and folding) or other populations where the genotype-phenotype map can be made explicit. Some reference works are BMC Evol. Biol. 10, 46 (2010); ARBOR 756, 1051 (2010); Phys. Rev. Lett. 106, 028104 (2011); Plos ONE 6, e26324 (2011).

Application procedure: Send CV and a letter stat-

ing your interests, together with the name of three researchers that can act as reference, to Susanna C. Manrubia (scmanrubia@cab.inta-csic.es) and José A. Cuesta (cuesta@math.uc3m.es). All candidates should register at "Bolsa de trabajo del CSIC?. Preselected candidates will be interviewed. For non-Spanish applicants, it is advisable to have the homologation of the PhD degree.

Starting date: February-March 2012

Type of contract: 1+1 year, stardard CSIC postdoctoral conditions for first year and Comunidad de Madrid contract associated to project for second year.

– Susanna C. Manrubia, PhD Centro de Astrobiología, INTA-CSIC Ctra. de Ajalvir km. 4 28850 Torrejón de Ardoz, Madrid, SPAIN Telf: +34 91 520 6425 Fax: +34 520 6424

scmanrubia@cab.inta-csic.es

MasseyU PlantEvolutionaryGenetics

Postdoctoral fellowship. Massey University, Palmerston North, New Zealand.

Plant Ecological Genetics. A two year postdoctoral fellowship is available to investigate whether declines in bird pollinators have exposed two native New Zealand plants to increased inbreeding and to a cryptic form of recruitment failure where fruits and seedlings are abundant but fail to recruit due to high rates of inbreeding depression. The study organisms will be Fuchsia excorticata (Tree Fuchsia) and Sophora microphylla (kowhai). For this project, we are combining genetic markers to measure inbreeding and to score gender in seedlings of the gynodioecious fuchsia with field studies of pollination ecology. The successful applicant will have experience with plant reproductive biology and implementing molecular genetic approaches (PCR, RT-PCR, and gene sequencing). The candidate should hold a Ph.D. in botany, genetics, or evolutionary biology. We seek an individual who is enthusiastic, highly motivated, and willing to work independently as well as with a team.

This project is a collaboration between Alastair Robertson, Ecology Group, Institute of Natural Resources http://www.massey.ac.nz/ ~ aroberts/welcome.html and Jennifer Tate, Institute of Molecular Biosciences, http://www.massey.ac.nz/massey/learning/-departments/institute-molecular-biosciences/staff/-tate_jennifer.cfm at Massey University in Palmerston North, New Zealand. Palmerston North is a small and friendly university town, which is located two hours from Wellington, the winery region of Hawke's Bay, and the volcanic plateau. The position will be jointly based within the Ecology Group, Institute of Natural Resources and the Institute of Molecular BioSciences and will take advantage of the facilities available at Massey, including the Massey Genome Service - http://www.massey.ac.nz/massey/research/centres-research/genome/massey-genome-service-home.cfm.

The closing date for applications is 31 January 2012. The starting date is flexible, but must be no later than 1 August 2012. For more information about this position, please contact Alastair Robertson (A.W.Robertson@massey.ac.nz). To apply for this position, please visit http://jobs.massey.ac.nz (reference A396-11).

Jennifer A. Tate, Ph.D. Senior Lecturer in Plant Systematics and Evolution Curator, Dame Ella Campbell Herbarium (MPN) Associate Editor, Systematic Botany

Massey University Institute of Molecular Biosciences Private Bag 11222 Palmerston North New Zealand

Phone: 64-6-350-5515 ext. 7518 FAX: 64-6-350-5688

http://www.massey.ac.nz/massey/learning/-departments/institute-molecular-biosciences/-staff/tate_jennifer.cfm Plant Biology at Massey: http://plantbiology.massey.ac.nz/index.html
j.tate@massey.ac.nz

Jennifer Tate <j.tate@massey.ac.nz>

MichiganStateU BEACON EvolutionBiol

BEACON Center for the Study of Evolution in Action

BEACON Distinguished Postdoctoral Fellows Program

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BEACON is an NSF Science and Technology Center headquartered at Michigan State University with partners at North Carolina A&T State University, University of Idaho, University of Texas at Austin, and University of Washington. BEACON brings together biol-

ogists, computer scientists, and engineers to study evolutionary dynamics using biological and computational techniques and to apply evolutionary principles to engineering problems. We seek outstanding post-doctoral scholars to pursue interdisciplinary research on evolution in action with BEACON faculty members, in the fields of biology, computer science, and/or engineering.

Applicants will propose a research project within the scope of BEACON's mission and must have two BEACON faculty sponsors who will serve as research mentors should the fellowship be awarded. At least one sponsor must be from the MSU faculty; the other sponsor may be from any of the five BEACON institutions. Preference is given for interdisciplinary research. The postdoc fellow will be based at Michigan State University in East Lansing. Please see our website (http://www.beacon-center.org) for information about BEACON's mission, participants and ongoing research projects.

Applicants must submit the following, in a single PDF, to BEACON Managing Director Danielle Whittaker via email (djwhitta@msu.edu):

1.CV

2.A two-page description of their research plan

3.A one-page summary of their doctoral research

4.Letters of support from two BEACON sponsors (at least one must be from MSU)

5.Two additional letters of recommendation

Fellowships include a salary of $50,000/year and modest funds to support research and travel. The successful applicant will help foster collaborations among faculty and disciplines and serve as a professional model for pre-doctoral trainees.

A Ph.D. in biology, computer science, engineering or related fields is required. Current MSU graduate students or postdocs are not eligible for this fellowship. Minority applicants are especially encouraged to apply. MSU is an Equal Opportunity/Affirmative Action Employer.

The deadline for applications is December 15 of each year. Finalists will be invited to give research seminars in January/February, and the award will be announced in late February.

Danielle J. Whittaker, Ph.D. Managing Director BEACON Center for the Study of Evolution in Action 1441 Biomedical and Physical Sciences Building Michigan State University East Lansing, MI 48824 (517) 884-2561 djwhitta@msu.edu http://beacon-center.org "Danielle J. Whittaker" <djwhitta@msu.edu>

NetherlandsInstEcol AvianConservation

The Netherlands Institute of Ecology (NIOO) is a top research institute of the Royal Netherlands Academy of Arts and Sciences (KNAW). NIOOâKNAW focuses on fundamental and strategic research into individual organisms, populations, ecological communities, and ecosystems. The mission is to carry out excellent research in ecology.

Vogeltrekstation â Centre for Avian Migration and Demography is part of the Netherlands Institute of Ecology (NIOOâKNAW), and coordinates all ringing activities of wild birds in the Netherlands. The extensive databank allows detailed analyses of birdsâ survival rates, breeding success and movements. Vogeltrekstation stimulates the use of ringing data by initializing collaborations with research institutes and universities as well as conducting her own research.

Vogeltrekstation at NIOOâKNAW offers a position for a Postâdoctoral Researcher Vacancy number VTâ011619

Project description : Brent geese Branta bernicla are highâarctic breeding birds that feed extensively on intertidal mudflats outside the breeding season, where they graze on eelgrass Zostera spec. Eelgrass beds are a restricted and endangered habitat around the world. After the decline of eelgrass beds in the Dutch Wadden Sea, the brent goose population initially collapsed, but recovered later due to conservation actions and a habitatâswitch towards lower salt marsh vegetations and agricultural fields. Recently, the population has declined again due to a long series of poor breeding years. Brent geese were among the first migratory species for which it was shown that spring conditions in the temperate region carried over to breeding performance in the arctic. Recent evidence suggests that the quality of wintering and stopover sites may be vitally important to population processes in migrants. In this project, we aim to investigate the importance of nonâbreeding habitats, and eelgrass beds in particular, for brent goose population dynamics and individual fitness, relative to the importance of alternative habitats, the role of competition with the closely related barnacle goose Branta leucopsis, and other factors. The postdoc will analyse an extensive dataset containing observations of individually marked birds spanning almost 40 years, and make

use of stateâofâtheâart GPS tracking devices as well as stable isotope techniques. The postdoc will closely collaborate with a PhDâstudent appointed at the University of Groningen, who will concentrate on the interactions of brent geese and eelgrass under field conditions and during (field) experiments. The project is funded by the Wadden Fund project Metawadâ1. Metawadâ1 is a 5 year research program carried out by a consortium made up of NIOZ, the University of Groningen, The Netherlands Institute of Ecology (NIOO), The Nature Information Foundation (Stichting Natuurinformatie) and the Dutch Centre for Field Ornithology (SOVON).

Requirements: We are looking for a highly motivated, enthusiastic and creative person with a PhD in biology, and an excellent publication record. Experience with multiâstate captureârecapture / recovery analyses, Integrated Population Models (IPM) and/or stateâspace models and fluency in English are prerequisites. Experience with Population Viability Analysis (PVA), individualâbased modelling and analyzing GPSâtracking data are a bonus.

Appointment: This is a temporary 2âyear appointment at 0.8 fte.

Salary: Salary depends on training and work experience, the maximum gross monthly salary coming with a fullâtime appointment will amount to â¬3.755,00 *scale 10, Collective Agreement for Dutch Universities (CAO âNederlandse Universiteiten), excluding 8% holiday pay*

Location: Vacancy number VTâ011619 will be hosted at NIOOâKNAW, Wageningen, The Netherlands.

Information: Additional information about vacancy number VTâ011619 is available upon request from Dr. H.P. van der Jeugd (tel. 0317â47 34 65, eâmail: h.vanderjeugd@nioo.knaw.nl) or Dr. B.A. Nolet (tel. 0317â47 34 48, eâmail: b.nolet@nioo.knaw.nl). Information on the Netherlands Institute of Ecology (NIOO), can be found at http://www.nioo.knaw.nl Applications: Please send your applications for this position (deadline 5 November 2011) to vacature@nioo.knaw.nl with reference to vacancy number VTâ011619.

Henk van der Jeugd Hoofd h.vanderjeugd@nioo.knaw.nl 0317 - 47 34 63 / 06 - 2732 8803 Vogeltrekstation Centrum voor vogeltrek en -demografie Dutch Centre for Avian Migration and Demography Postbus 50, 6700 AB Wageningen, Nederland tel. +31 317 47 34 65; fax. +31 317 47 36 75 vogeltrekstation@nioo.knaw.nl www.vogeltrekstation.nl Het Vogeltrekstation is een samenwerkingsverband van NIOO-KNAW en de Ringersvereniging.

“Jeugd, Henk van der” <H.vanderJeugd@nioo.knaw.nl>

NewYork BotanicalGarden 3 PlantEvolution

Three postdoctoral positions are available at The New York Botanical Garden, two in systematics and one carrying out analyses of plant distribution data using GIS tools.

See below for specific requirements and links to applications. For informal inquiries, please contact Gregory Plunkett (Cullman Postdoc position) or Jim Miller (Systematics of Boraginaceae or GIS positions)

Cullman Postdoctoral Research Associate Botanical Science - Position Application Number: SC-1670 http://www.nybg.org/employment/-listing.php?id_employment_listings=1015 The Cullman Postdoctoral Research Associate will conduct systematic and/or population-genetic research on plants by developing and applying molecular tools.

- Collect and analyze molecular data to reconstruct phylogenetic and biogeographic relationships and/or to interpret population-level processes. - Conduct standard protocols of molecular systematic and genetics, such as nucleic acid extraction, PCR, cloning, automated DNA sequencing, genotyping, next-generation sequencing. - Assist in developing new molecular markers specific to on-going and new projects. - Conduct phylogenetic, biogeographic, and/or population-genetic analyses of the clades of Apiales (incl. Apiaceae, Araliaceae, Pittosporaceae) and other groups of mutual interest. - Assist in collections-based research on these plant groups. - Write and assist in writing publications and grant proposals based on current research. - Assist the Director in all functions necessary to ensure successful outcome of ongoing projects.

Requirements:

- Ph.D. in botany, plant biology, or related field. - Experience with application of molecular approaches to systematics. - Experience with the methods of phylogenetic and biogeographic analysis.

Salary commensurate with experience.

Postdoctoral Researcher Botanical Science - Position Application Number: SC-1668 http://www.nybg.org/-employment/listing.php?id_employment_listings=1013 The Postdoctoral Researcher will conduct phylogenetic analyses of various genera and subfamilies of Boragi-

naceae.

- Application of Systematics data to conservation issues focused on the phylogeny of woody Boraginaceae. - DNA-sequencing and methods of phylogenetic analysis. - Analyze data to produce publications based on previous and current research. - Assist the Dean in all functions necessary to ensure successful outcome of ongoing projects.

Requirements:

- Ph.D. in biology, plant biology, or related field. - Experience with DNA sequencing. - Experience with methods of phylogenetic analysis. - Experience with standard methods of molecular systematic including nucleic acid extraction, PCR, cloning, automated DNA sequencing. - Experience with DNA-barcoding preferred.

Salary commensurate with experience.

Postdoctoral Researcher Institute of Systematic Botany - Position Application Number: SC-1669 http://www.nybg.org/employment/-listing.php?id_employment_listings=1014

The Postdoctoral Researcher will work with Science curators to analyze datasets relative to conservation issues:

- Conduct GIS analysis of botanical data sets. - Prepare manuscripts for publication in peer-reviewed journals. - Integrate one of the world's strongest programs of systematic research with ongoing conservation research. - Implementation in existing programs with new efforts to use specimen data to inform conservation and international connections of the Science program. - Effectively implement data to identify species at risk of extinction, patterns of species diversity, and areas of high conservation priority.

Requirements:

- Ph.D. in botany, plant biology, or related field. - Experience with use and analysis of herbarium data. - Demonstrated experience with GIS software. - Demonstrated experience in preparing publications and grant proposals.

Salary commensurate with experience.

"Michelangeli, Fabian" <fabian@nybg.org>

NewYorkU EvolutionVisualSignals

Post-doc opportunity - the evolution and function of visual signals

A position is available for a post-doc at New York University (NYU). The post-doc will work on projects related to the evolution and function of primate colors and patterns. Several collaborative projects in this area in our lab are ongoing and new projects are being established. These include both comparative analyses and species-specific studies of the function and evolution of facial and genital color patterns. The post-doc will have considerable input into the direction and nature of the research undertaken and will initiate and develop projects according to their own interests.

Applicants with experience of evolutionary studies of animal communication and signaling, or of relevant related areas in behavioral and evolutionary ecology, are encouraged to apply. The position would especially suit researchers who have experience in visual modeling, and the analysis of pattern, shape and color data in studies of signal evolution, or those who have related expertise and are eager to learn such techniques. In addition to the collection and analysis of standardized images from specific species, other aspects of the research may include undertaking comparative analyses, creating carefully calibrated stimuli, and undertaking experiments in which color images are presented to living primates to assess their response. In addition to applications from those with direct experience of working on primate signaling, communication and behavior, applications are encouraged from researchers with relevant experience from any other taxa, such as birds, insects, frogs and fish.

The post-doc will be paid a salary according to his/her experience and will be eligible for NYU benefits such as healthcare and retirement. Nationality is open. NYU is located in the Greenwich Village area of Manhattan.

To apply, please email a cover letter and a CV (including referee contact information) to James Higham at: jhigham@nyu.edu

See also: https://files.nyu.edu/jph13/public/-james.html * *

*References *

Higham, J.P., Hughes, K.D., Brent, L.J.N., Dubuc, C., Engelhardt, A., Heistermann, M., Maestripieri, D., Santos, L.R & Stevens, M. 2011. Familiarity affects assessment of facial signals of female fertility by free-ranging male rhesus macaques.

Proceedings of the Royal Society B 278 3452-3458

Higham, J.P., Brent, L.J.N., Dubuc, C., Accamando, A,K., Engelhardt, A., Gerald, M.S., Heistermann, M.

& Stevens, M. 2010. Color signal information content and the eye of the beholder: a case study in the rhesus macaque.

Behavioral Ecology 21 739-746

Stevens, M., Stoddard, M.C., & Higham, J.P. 2009. Studying primate color: towards visual system dependent methods.

International Journal of Primatology 30 893-917

Higham, J.P., MacLarnon, A., Ross, C., Heistermann, M. & Semple, S. 2008 Baboon sexual swellings: Information content of size and color.

Hormones and Behavior 53 452-462

jph13@nyu.edu

RiceU HuxleyFellowInEvolution

HUXLEY FELLOW in EVOLUTION

Job Description

The Ecology and Evolutionary Biology Department of Rice University (http://eeb.rice.edu/) seeks to fill a Huxley Fellow position in EVOLUTION. The position is a two-year appointment with a third year extension possible, with a start date of July 1st 2012. Our prestigious Huxley Fellow Program aims to recruit outstanding researchers with a PhD and postdoctoral experience, who merge excellence in teaching (25%) and research (75%). The Huxley Fellows receive faculty status, employee benefits, competitive salary, and research funds for independent or collaborative research. Collaborative interests with the existing faculty are a plus and applicants are encouraged to identify a potential faculty host within the EEB department.

An application (curriculum vitae, statement of research interests and statement of teaching) and three letters of recommendation should be submitted via e-mail to Diane Hatton, rdh@rice.edu. Please write "Evolution Huxley Fellow Application" in the subject line. Application review will begin immediately.

For further questions and informal inquiries please contact Dr. Nicholas H Putnam, Huxley Fellow Search Committee, nputnam@rice.edu. Rice University is an Equal Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply.

Nicholas Putnam <nputnam@rice.edu>

RutgersU ComputationalBiology

Seeking qualiïapplicants for two post-doctoral positions with Andrew Kern in the Department of Genetics and the Human Genetics Institute of New Jersey at Rutgers University. Recent work in the lab spans the intersection of population genetics, comparative genomics, machine learning, and evolutionary biology. These postdoctoral positions are aimed at continuing our work on machine learning approaches to population genetics, and will combine statistical methods development and their application to high throughput sequencing datasets.

Our lab is part of a newly formed Genome Variation and Evolution group within the department of Genetics that includes the labs of Jody Hey and Kevin Chen. More information about the department can be found here (http://genetics.rutgers.edu/). More information about the Kern lab can be found here (http:/-/northstar-www.dartmouth.edu/=CB=9Cadk/).

The ideal candidate would hold a Ph.D. and have a record of research achievement in computational biology, population biology, computer science, statistics, or any quantitative ï. A background in comparative/population/evolutionary genomics is highly desirable. In addition the candidate must have proven experience with the following:

- C or C++ programming

- Familiarity with R

- Use of a scripting language (Ruby or Python preferably)

- Experience with the unix environment

- Preferably the candidate would be comfortable with cluster computing environments

Review of applications will begin immediately and continue until positions are ï. Interested candidates should submit an electronic version of their CV along with a cover letter describing their qualiïand relevant experience to andrew.kern@rutgers.edu

andrew.kern@rutgers.edu

Spain ForestTreeEvolution

A three year postdoctoral fellowship is available to investigate the adaptive variation, environmental gradients and demography in Mediterranean conifers. The study organisms will be Pinus pinaster, Pinus halepensis and Taxus baccata. For this project, we are combining different approaches to investigate the evolutionary response of these conifers to selection: demographic dynamics, patterns of adaption at the phenotypic and molecular levels, and modeling of the climatic niche. More specifically, the candidate will be involved in assessing the patterns of adaptation at the phenotypic and molecular levels by identifying functional genes responsible for variation in phenotypic traits and geographical-climatic clines of adaptive variation.

The successful candidate will have experience with population genetics and genomics, especially with sequences and SNPs analysis. The candidate should hold a Ph.D. in genetics or evolutionary biology, have an excellent academic and publication record, and be a fluent speaker/writer in English. We seek an individual who is enthusiastic, highly motivated, and willing to work independently as well as with a team.

This project is a collaboration between the Center of Forest Research (CIFOR) at the National Institute of Research and Agrarian and Food Technology (INIA) in Madrid (www.inia.es), and the Center for Ecological Research and Forestry Applications (CREAF) at the Autonomous University of Barcelona (www.creaf.uab.es), and the position will be jointly based within these two Spanish research centers.

Closing date for application, January 15ˆth , 2012.

Applications (curriculum and cover letter, including a statement of research interests and a brief overview of previous academic and research experiences) as well as request for information should be sent to: dgrivet@inia.es and Maria.Mayol@uab.es.

dgrivet@inia.es

StanfordU EvolutionaryGenomics

Stanford University, Evolutionary genomics

A postdoctoral position is available in the lab of Hunter Fraser. Our lab combines experimental and computational approaches to studying the evolution of gene expression within and between species. Our long-term goals are to better understand 1) how new mutations affect gene expression; 2) what selective pressures act on these mutations; and 3) how changes in gene expression contribute to the evolution of other phenotypes. The project details are flexible, but may focus on analyzing genome-wide gene expression (RNA-seq) data from multiple species. Preference will be given to candidates with a strong background in computational biology, molecular evolution, and statistics. ÂFamiliarity with analysis of high-throughput sequencing data or quantitative/statistical genetics is a plus.

Stanford is an extremely stimulating environment, with many labs engaged in research on evolution and genomics. There is plenty of opportunity to interact with other labs, for example in the weekly evolutionary genomics joint lab meeting that includes 12 labs. To apply, please email a CV and cover letter to hbfraser[at]stanford.edu. The position can begin immediately.ÂSalary and benefits are very competitive. For further information please see the labâs website, http://-/www.stanford.edu/Ëhbfraser/ . Hunter Fraser Assistant Professor Department of Biology Stanford University Stanford, CA hbfraser[at]stanford.edu

Hunter Fraser <hbfraser@stanford.edu>

UAzores IslandBiodiversity

*PostDoc-Position *

Project - Biodiversity on oceanic islands: towards a unified theoryâ (2012-2015. (PTDC/BIA-BIC/119255/2010)

Creative and motivated candidates are invited to apply for a three-year Postdoctoral Scientist position, at the Azorean Biodiversity Group, University of Azores for participation in a collaborative project supervised by Paulo A. V. Borges and Kostas Triantis (University of Azores), in collaboration with Luis AntÃ³nio Borda Ãgua (CBAUniversity of Lisbon), Aris Parmakelis (University of Athens) and Robert Whittaker (Biodiversity Research Group, Oxford University Centre for the Environment).

This project aims at developing conceptual models

mathematically describing the dynamics of diversity on oceanic islands. The main objective of the project is a unifying theory of island biodiversity, based on the recently proposed General dynamic model of oceanic island biogeography (Whittaker et al., 2008), which will require: a) the development of analytically tractable mathematical models, b) the analysis of extensive empirical (molecular and biogeographical) data to assess the validity of the models, and c) taking into account that biodiversity itself is multi-faceted, and thus biodiversity theories should incorporate multiple diversity metrics.

Candidates should hold a Ph.D. in a pertinent field. Previous post-doctoral experience is not mandatory but will be considered a plus. The ideal candidate would have excellent skills in ecological mathematics, handling of large data sets, stochastic/mechanistic and/or prognostic modelling and experience of combining molecular and ecological data.

Salary will be 1495â/month.

Please send a CV, a brief statement of research interests, and the names and contact information for two references to Paulo Borges, pborges@uac.pt and Kostas Triantis (island.biogeography@gmail.com).

Review of applications will begin on March 1 2012 and will continue until the position is filled. The project is expected to begin in August 2012.

ARIS PARMAKELIS, MSc., PhD. Biology Building Department of Ecology and Taxonomy (Room 41) University of Athens Panepistimioupoli Zografou GR-15784, ATHENS, GREECE Tel.: ++302107274736 aparmakel@biol.uoa.gr parmakel@nhmc.uoc.gr parmakel@edu.biology.uoc.gr http://uaeco.biol.uoa.gr/-uameco http://publicationslist.org/aparmakel aparmakel@biol.uoa.gr

UBC SpatialEvolutionaryGenomics

Post-doctoral position in evolutionary genomics University of British Columbia Vancouver, BC, Canada

A post-doctoral fellowship is available to develop and apply methods to measure local adaptation using genomic data. This position is part of AdapTree, a larger project on adaptation to climate change in lodgepole pine and white spruce, which will genotype and analyze thousands of SNPs from several thousand individuals of each species, spread over their full geographic ranges. We seek to further develop methods to correlate local adaptation at specific loci with environmental measurements associated with climate change, accounting for spatial autocorrelation in both allele frequencies and environmental values, and apply these approaches to data from the AdapTree project.

The project needs an individual with interests in evolutionary biology and strong skills in statistics and computer programming. The position starts Jan. 1, 2012 or soon thereafter, with funding through June 2014.

If you are interested in this position, please send a CV and the names and e-mail addresses of potential references, to Michael Whitlock, Department of Zoology, University of British Columbia, at whitlock@zoology.ubc.ca. The job is open to all nationalities. Please contact me if you have any questions about the position.

Michael Whitlock whitlock@zoology.ubc.ca Department of Zoology - University of British Columbia 6270 University Blvd, Vancouver, BC V6T 1Z4 CANADA phone: (604) 822-2069 FAX: (604) 822-2416

UBristishColumbia ComparativeGenomics

Tree genomics group at the University of British Columbia is seeking a postdoc with previous experience in the analysis of some aspect of plant or animal genomes. Please see the advertisement below:

Postdoctoral Fellow/Research Associate position - comparative evolutionary genomics You will work as part of a team investigating the genomic basis of phenotypic variation in the tree genus Populus (with particular reference to adaptive and wood traits), You will have an important role in the generation of whole genome sequences of multiple poplar species in conjunction with the Genome Sciences Centre, Vancouver, and will be responsible for between-species comparative analysis of genomes in a phylogenetic context, including the detection of adaptively significant variation. The position represents a superb opportunity to work at the leading edge of comparative evolutionary genomics and your work will underpin a major tree biology project. You will have a PhD and previous experience in the genomics of a plant or animal system. Familiarity with one or more of the following would be an advantage: comparative genomics, phylogenetic analysis, selection

detection algorithms, genome evolution, next generation sequencing methods, programming for bioinfomatics.

General enquiries and applications (comprising your cv and the names/ contact details of 3 referees) to: Professor Quentin Cronk quentin.cronk@ubc.ca Department of Botany and Biodiversity Research Centre, University of British Columbia, Vancouver, CANADA

– POPCAN: Genetic improvement of poplar trees as a Canadian bioenergy feedstock http://www.genomebc.ca/portfolio/projects/forestry-projects/popcan/ quentin.cronk@ubc.ca

UBritishColumbia Biodiversity

Postdoctoral Fellows Fellowship Opportunity

As a part of our NSERC CREATE training program in < http://biodiversity.ubc.ca/BRITE/index.html > biodiversity research, we seek applicants for a 2-year postdoctoral fellowship in the U.B.C. Biodiversity Research Centre (< http://www.biodiv.ca/ > www.biodiversity.ubc.ca). The Centre is made up of over 50 faculty members with interests in ecology, evolution, systematics, biodiversity and conservation. Preference will be given to candidates with bold ideas, demonstrated research ability, and strong communication skills. The successful candidate will be expected to conduct original research on core problems in biodiversity, foster interactions within the Centre, run a seminar series, and organize a retreat. Postdoctoral fellows funded by the Biodiversity Research Centre typically interact with several lab groups. Candidates are welcome to contact potential collaborating labs in the Centre to inquire about current and potential research activities, but it is not necessary to apply to work with a specific faculty member.

Starting date, 1 September 2012. Salary $43,000 per yr. Research stipend: $7,000 per yr. Send curriculum vitae, three letters of reference, and a statement of overall scientific goals and interests (approximately 2 pages) to the address below. Reference letters will be accepted electronically, and must be sent directly by the referee. Search Chair, Biodiversity Research Centre, U.B.C., 6270 University Blvd., Vancouver, B.C., Canada V6T 1Z4. (Fax 604-822-2416, e-mail biodiversity.centre@ubc.ca). Closing date for application, January 12 2012.

The University of British Columbia hires on the basis of merit and is committed to employment equity. We encourage all qualified candidates to apply.

Penelope (Lebby) Balakshin Administrator Biodiversity Research Centre

Tel: 604-822-0862 Cell: 604-802-6330

Lebby Balakshin <admin@biodiversity.ubc.ca>

UBritishColumbia ComparativeEvolGenomics

Tree genomics group at the University of British Columbia is seeking a postdoc with previous experience in the analysis of some aspect of plant or animal genomes. Please see the advertisement below:

Postdoctoral Fellow/Research Associate position - comparative evolutionary genomics You will work as part of a team investigating the genomic basis of phenotypic variation in the tree genus Populus (with particular reference to adaptive and wood traits), You will have an important role in the generation of whole genome sequences of multiple poplar species in conjunction with the Genome Sciences Centre, Vancouver, and will be responsible for between-species comparative analysis of genomes in a phylogenetic context, including the detection of adaptively significant variation. The position represents a superb opportunity to work at the leading edge of comparative evolutionary genomics and your work will underpin a major tree biology project. You will have a PhD and previous experience in the genomics of a plant or animal system. Familiarity with one or more of the following would be an advantage: comparative genomics, phylogenetic analysis, selection detection algorithms, genome evolution, next generation sequencing methods, programming for bioinfomatics.

General enquiries and applications (comprising your cv and the names/ contact details of 3 referees) to: Professor Quentin Cronk quentin.cronk@ubc.ca Department of Botany and Biodiversity Research Centre, University of British Columbia, Vancouver, CANADA

– POPCAN: Genetic improvement of poplar trees as a Canadian bioenergy feedstock http://www.genomebc.ca/portfolio/projects/-forestry-projects/popcan/ Quentin Cronk <qcronk@mail.ubc.ca>

UCalifornia Davis AntGenetics

Post-doc position in the spatial genetics and ecology of acacia-ants in Kenya The Stanton and Grosberg labs, Department of Evolution and Ecology, University of California Davis

We are seeking a highly motivated post-doc with expertise in spatial genetic analysis, an interest in using genetics to inform field experiments and surveys, and the ability to work up to 4 months per year at one of Africa's most spectacular field research centers.

Over the past twelve years, our team of colleagues at the Mpala Research Centre in Kenya has probed deeply into the ecological dynamics of a multi-species mutualism in which four species of acacia-ants associate with a single, dominant acacia, A. drepanolobium in highland savannas around East Africa. The relative ease with which field manipulations can be conducted in this system, in concert with its amazingly rich natural history, has resulted in a number of high-profile publications, and new insights into the dynamics of competition and coexistence among the symbiont ant species, the role of mega-herbivores in maintaining the mutualism, and the non-additive fitness consequences for long-lived host trees that associate with multiple species over their lifetime. For links to recent papers and some of the work in progress, please refer to the beautiful website of our pal and collaborator extraordinaire, Todd Palmer (http://-/web.mac.com/toadpalmer/Site/welcome.html).

The new post-doc will lead a relatively new research effort, in which we are focusing on three congeneric acacia-ant species that coexist at very fine spatial scales around the Mpala area Crematogaster sjostedti, C. mimosae, and C. nigriceps. These species vary dramatically in ecology, life-history and apparent colony dynamics. Large, multi-queen, multi-tree colonies of C. sjostedti dominate in competition for host trees over smaller (sometimes multi-queen) colonies of C. mimosae, which in turn can competitively displace the single-queen colonies of C. nigriceps. The focus of our current project is to determine what role spatial patterns of within-colony and between-colony genetic variation may play in colony success in competition for food sources and host trees, colony establishment, the balance between intra- versus inter-specific competition, and on the ability of these intensely competing species to coexist system. Multiple microsatellite loci have been developed in two of the three species thus far, and patterns of variation at these loci identify colony structures that correspond closely with those obtained from field aggression assays.

So, if you are, like us, someone who is driven to solve mysteries, here is just a small sample of observations we've made and questions we hope to address in this work.

*Bigger colonies have a competitive advantage, but attaining large colony size requires multiple queens. To what extent are large colonies less genetically integrated than single-queen colonies? Does polygyny pre-dispose a colony to reduced cooperation or fragmentation? If not, how is colony integrity and cooperation maintained?

** Colonies of the different species are spatially aggregated that is, conspecific colonies are more often near neighbors than expected by chance. To what extent are conspecific neighbors also related to one another? How do genetically related neighboring colonies arise?

** Do neighboring colonies of the same species compete as often and as intensively as heterospecific neighbors? To what extent are levels of intraspecific, inter-colony aggression determined by genetic relatedness?

Here are the attributes we are seeking in the person who will fill this position. 1) Strong skills in writing and in transforming data into manuscripts and research proposals. 2) Experience in development of microsatellites and in analysis of microsats or other hyper-variable genetic markers using multiple software packages. 3) Experience in the design and execution of large-scale field experiments. 4) Good mentoring and organizational skills, with an ability to organize and supervise lab groups and research teams. 5) High levels of responsibility and self-motivation for independent work. 6) Experience with mapping and spatial analysis in GIS. 7) Experience and interest in ant or other haplodiploid social insects is a plus, but not essential.

UC Davis is an extraordinarily stimulating and fertile environment for post-doctoral work in all aspects of evolutionary ecology. While on campus, the post-doc will have office and lab space in Storer Hall, home to both the Department of Ecology and the Center for Population Biology. We anticipate that the post-doc will make two trips per year to the Mpala Research Centre in Kenya, which hosts a stimulating international community of biologists and ecosystem scientists. This post-doc position is renewable for up to three years. Full-time salary

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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

UCDavis PopulationBiology

EFFECTIVE: October 28, 2011

DEADLINE: December 5, 2011

POSTDOCTORAL FELLOW IN POPULATION BIOLOGY$B!>!>(BThe 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 2012. This position is covered by a collective bargaining unit. It has an annual starting salary of $38,496 plus benefits, and $6,000 per annum in research support. The Fellow will be a fully participating member in the Center for Population Biology and will be expected to have an independent research program that bridges the interests of two or more CPB faculty research groups. We strongly encourage candidates to contact appropriate faculty sponsors before applying. We also ask that each Fellow teach a multi$B!>(Bday workshop, discussion or lecture series that is of broad interest 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$B!>(B2 page) description of research accomplishments, a short (1$B!>(B2 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=84&Title=-CPBPostdoctoral $B!>(BFellow We require 3 letters of recommendation. The referees you list in the online application will receive an automatic notification from our system instructing them how to directly upload letters to our website. Refer to the on$B!>(Bline instructions for further information. For full consideration, applications (including letters of reference) should be submitted by 5:00 p.m., 12/5/2011. 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$B!>(Bmail questions to gradcoordinator@ucdavis.edu.

John J. Stachowicz Department of Evolution and Ecology & Director, Center for Population Biology University of California Davis CA 95616

jjstachowicz@ucdavis.edu http://-www.eve.ucdavis.edu/stachowicz/index.shtml John Stachowicz <jjstachowicz@ucdavis.edu>

UCollegeLondon 2PDF8PhD HumanEvolution

Professor Shennan, Head of Department has confirmed that these adverts are aimed at evolutionary biologists. The wording from the attachment is as follows:

"BEAN - Bridging the European and Anatolian Neolithic: demography, migration, and lifestyle at the advent of civilisation:an EC Marie Curie Initial Training Network

Two 2 year post doctoral positions and 8 PhD positions (Archaeology/Palaeodemography/Genetics/Computer Modelling/Biostatistics)

The BEAN Initial Training Network aims to carry out research into the origins of settled farming life in Europe and of the European peoples while providing state-of-the art training to early-stage researchers in the scientific disciplines of anthropology, genomics, simulations and modelling, and prehistoric archaeology, as well as business and management skills pertaining to cultural heritage, public outreach, and scientific publication.

2 Post Doctoral Projects (2 years) for Experienced Researchers (ER) in genomic bioinformatics / biostatistics and next generation sequencing laboratory protocols for studies using ancient DNA.

1. Johannes Gutenberg University, Mainz, Germany. Joachim Burger. BEAN.MAINZ@googlemail.com 2. GATC Biotech AG, Germany. j.kenklies@gatc-biotech.com

Closing date: 15 June 2012 Start date January 2013

Academic requirements Applicants for ER Fellowships (equivalent to a post-doctoral position) must either be in possession of a doctoral degree, irrespective of the time taken to acquire it, or have at least four years of full-time equivalent research experience in a relevant area. Their total research experience must not exceed 5 years after obtaining their Masters' degree.

8 PhD Projects (Early Stage Researcher (ESR))

1. Palaeogenomic analysis of Mesolithic and Neolithic skeletal remains. Joachim Burger, Johannes Gutenberg University, Mainz, Germany. BEAN.MAINZ@googlemail.com 2. Tracing genes and culture through the Neolithic. Mark Thomas, UCL, London, UK. See http://www.ucl.ac.uk/mace-lab/opportunities. Contact m.thomas@ucl.ac.uk 3. Orienting Y- chromosome lineages in space and time. Daniel Bradley, Trinity College Dublin, Ireland. dbradley@tcd.ie 4. Assessing the transition to agriculture in Western Anatolia and the Balkans using a spatially-explicit computer simulation approach. Mathias Currat, University of Geneva, Switzerland. mathias.currat@unige.ch 5. Ceramic assemblages as evidence of social interaction in the Early Neolithic Balkans. Stephen Shennan, UCL, London, UK. ioa- director@ucl.ac.uk 6. Lithics and raw materials as source for mobility and migration in Neolithic and Chalcolithic periods: a case study from western Anatolia. Necmi Karul, Istanbul University. karul@istanbul.edu.tr 7. Model of the mode, tempo, and demography of the Neolithic expansion in Greece and Bulgaria from the Levant, using archaeological and bioarchaeological data. Jean-Pierre Bocquet-Appel, CNRS, Paris, France. jean-pierre.bocquet-appel@evolhum.cnrs.fr 8. Testing the assumptions of the Neolithic demographic transition (NDT) through direct analysis of skeletal remains. Sofija Stefanoviæ, University of Belgrade, Serbia. smstefan@f.bg.ac.rs

Duration of ESR Fellowships: 36 months Start date: Between 1 February and 1 May 2012 Closing date for applications: 15 January 2012

Academic Requirements Eligible applicants for ESR Fellowships (equivalent to a PhD position) must be in possession of a Master's or Bachelor's degree, in a relevant field. However, individual departments and universities will have their own specific entry requirements. Eligibility criteria set by the European Union for Marie Curie ESR fellowships require that the applicants have no more than 4 years research experience prior to the envisaged starting date.

Marie Curie ITN programs mobility requirement for both ER and ESR positions At the time of the selection, applicants must not have resided or carried out their main activity (work, studies, etc.) in the country where their Fellowship is to be held for more than 12 months in the 3 years immediately prior to the starting date of the fellowship. Researchers can be nationals of any country other than the country of the premises of the host organisation where they will carry out their project. However, the ESR Fellowships only cover the fee levels for EU citizens, not those for students from outside the EU. Further information about all the Fellowships may be found at: https://sites.google.com/site/beanresearchnetwork/-description-of-research-projects Applicants should send a CV (max 2 pages), a covering letter (1 page) outlining why they are suitable for the position, and the names of two referees, to the project leader listed above for the project in which

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UHaifa ComputataionalGenomics

A Postdoctoral position in Computational Genomics and Phylogenetics are available at the Institute of Evolution at the University of Haifa.

The research projects will be done in collaboration with the Phylogenetics and Computational Genomics lab of Dr. Sagi Snir.

Next Generation Sequencing has opened up unprecedented opportunities for researches from the quantitative sciences. Genomic sequences of enormous quantities are available for all sort of advanced biological analysis. Analytical skills beyond the traditional biological training are imprative. The positions are targeted to two projects:

1. The project is focused on large scale phylogenetics reconstruction by means of the supertree method. The project is based on algorithmic and computational/mathematical tools for piecing together the tree of life. We represent trees in a special graph and apply specific graph algorithms such as MaxCut on this graph. Preliminary results show advantages over existing methods. As these tasks are computationally

hard, we employ probabilistic approaches to obtain the results. We investigate both theoretical and practical questions associated with this approach.

2. Detection and analysis of horizontal gene transfer (HGT) in prokaryotes. HGT is a major factor in prokaryotic evolution and plays a significant role in developing antibiotic resistance. We have developed several novel methods to detect HGT where existing methods fail. The methods use evolutionary signals, unique to HGT, that are detected by non trivial statistical approaches.

Both projects are funded by highly competitive grants that provide high fellowships. Outstanding candidates from both exact and life sciences are encouraged to apply. Qualified candidates will earn very high salaries.

Familiarity with computational/mathematical biology is favourable. Essential requirements include proficiency in computer-programming skills, such as C/C++/Java and scripting languages (e.g. Perl, Phyton), demonstrated ability in applying the devised algorithms.

The Institute of Evolution is world leading in broad aspects of evolution, both theoretical and practical. The young team of Dr. Snir is characterized by works with both algorithmic and evolutionary appeal with ample collaboration with other leading labs around the world.

Please send applications by email to:

Sagi Snir, Ph.D. Sagi Snir Department of Evolutionary and Environmental Biology and The Institute of Evolution, University of Haifa Mount Carmel, Haifa 31905 ISRAEL Tel: (972) 4 828-8774 Email: ssagi@research.haifa.ac.il

Sagi Snir <ssagi@research.haifa.ac.il>

UHawaii Manoa CopepodGeneFlow

POSTDOCTORAL FELLOWSHIP - ZOOPLANKTON MOLECULAR ECOLOGY University of Hawaii at Manoa Department of Oceanograph Applications are invited for a postdoctoral fellowship position in zooplankton molecular ecology in E. Goetze's laboratory in the Department of Oceanography, University of Hawaii, at Manoa.

The postdoctoral scientist will lead efforts in nuclear marker development for an NSF-funded project on population connectivity and dispersal in oceanic plankton species. The project aims to test the hypothesis that depth habitat and vertical migration behavior are keys traits that influence dispersal and gene flow among plankton populations in open ocean habitats. Our approach is comparative, and we are working to resolve the spatial patterns of gene flow among populations of eight copepod species that utilize very different depth habitats (surface 1000 m) The postdoc's primary responsibilities on this project will be to (1) develop new microsatellite (or RAD tag) markers for 1-2 planktonic copepods, and (2) apply these markers across a global collection of material (Atlantic, Pacific, and Indian Oceans; subtropical and tropical waters). 454 sequencing will be used for marker development, and applicants with skills in handling these datasets are particularly desired. If interested, opportunities would exist to participate in fieldwork at sea, gain university teaching experience at the graduate and undergraduate levels, attend training workshops, and obtain experience in writing research grants. Support will be provided to present research results at national or international meetings. Initial appointment is for 1 year.

The School of Ocean and Earth Science and Technology (SOEST) was established at the University of Hawaii at Manoa to promote excellence in interdisciplinary research and graduate education in marine, atmospheric, and geological sciences. This postdoctoral position is within the Department of Oceanography at SOEST, and is located on the main Manoa campus. Additional information about the Biological Oceanography Division and the Department of Oceanography can be found at: http://www.soest.hawaii.edu/-oceanography/ . Qualifications: The successful candidate will have a PhD in oceanography, marine biology, zoology or a related field, and strong molecular skills. While not required, ideal candidates will have experience with nuclear marker development in other organisms, and will have some experience with handling large genetic datasets (from 454 or Illumina platforms).

How to apply: Electronically submit a coverletter, CV, brief statement of research experience and interests, and names and contact information for three references to egoetze@hawaii.edu. Review of applications will begin on November 4, 2011 and will continue until a suitable candidate is found. An ideal start date would be in Winter 2011-2012 (or sooner). Feel free to contact Dr. Goetze with questions about the research or position.

Erica Goetze Department of Oceanography University of Hawaii at Manoa Marine Science Building, # 606 1000 Pope Road Honolulu, HI 96822

Erica Goetze <egoetze@hawaii.edu>

UNewHampshire SmallMammalBiodiversity

Postdoctoral Researcher in Landscape Ecology/Global Change Ecology A two year postdoctoral position in the Department of Natural Resources and the Environment is available at the University of New Hampshire. The postdoc will join Drs. Rebecca Rowe (University of New Hampshire) and Eric Rickart (Natural History Museum of Utah, University of Utah) as part of the ongoing NSF-funded Great Basin Resurvey Project. The primary focus of this project is comparing historical and modern survey data for small mammals on multiple mountain ranges in the Great Basin of the western US to investigate change in species distributions and community composition over the past century. Additional details can be found at: http://www.nre.unh.edu/rebecca-j-rowe, http://nhmu.utah.edu/vertebrate-zoology?q=eric-rickart-phd, and http://home.utah.edu/ ˜ u0547417/

We seek a highly motivated candidate interested in understanding how changes in climate and land cover are impacting small mammal biodiversity. The position represents a superb opportunity to work at the interface between historical ecology, landscape ecology and biogeography and the candidate will have input in shaping future research directions for this project. Familiarity with landscape connectivity analyses and/or species distribution modeling and/or occupancy modeling would be an advantage. Experience working with small mammals or in the Great Basin is not required, but all applicants must be interested in participating in some field work associated with this project.

Start date is flexible but preference will be given to candidates who can begin on or before August 27 2012. The position offers a competitive salary and benefits.

To apply: Please send a single pdf document containing a cover letter summarizing your research experience and interests, CV, and contact information for three references by email to rebecca.rowe@unh.edu. Review of applications to begin January 15, 2012 and will continue until the position is filled.

UNH is an AA/EEO Employer. UNH is committed to excellence through the diversity of its faculty and staff and encourages women and minorities to apply.

“Rowe, Rebecca” <Rebecca.Rowe@unh.edu>

UOslo ProkaryoticComparativeGenomics

Centre for Ecological and Evolutionary Synthesis (CEES), Department of Biology, University of Oslo, Norway.

A three-year position as Postdoctoral Research Fellow/Researcher in Prokaryotic Comparative and Evolutionary genomics

The CEES is a centre of excellence for integrative biological research and is well- funded. It provides a stimulating research environment, situated at the Department of Biology, with many young international and Norwegian scientists working on a variety of theoretical and empirical topics within ecology, evolution, population genetics, genomics, phylogenetics, molecular biology, and statistical methodology. The CEES is chaired by Professor Nils Chr. Stenseth and currently employs 19 faculty members, 45 postdocs/researchers, 32 PhD students and 30 MSc students. Information about the centre can be found at: http://www.cees.uio.no . A three-year position as Researcher/Postdoctoral Research Fellow is now available in Comparative and Evolutionary genomics of prokaryotes at the University of Oslo, Department of Biology, Centre for Ecological and Evolutionary Synthesis. The candidate will be part of a project funded by The Research Council of Norway.

Job description and requirements The successful candidate will perform research in the area of evolutionary prokaryotic genomics associated with several ongoing projects at the centre. In particular, genome evolution, core and pan genomes, recombination, horizontal gene transfer and co-evolution processes will be addressed in the current project.

Applicants should have Ph.D. in bioinformatics, microbiology, biology or a related field. We are seeking a candidate with a strong background in genomics and molecular evolution of prokaryotes. Specifically, the ideal candidate should have a previous track record related to recombination, mutation and horizontal gene transfer processes. Experience with de novo sequencing using high throughput methods and analysis of such data is required. Lab experience â particularly with quantitative PCR techniques â will be an advantage. Solid experience in applied bioinformatics (genome analyses including assembly and annotation),

and Unix operating system is desirable.

A good command of English is required http://-www.mn.uio.no/english/research/doctoral-degree-and-career/regulations/proficiency-requirements.html

See also guidelines for appointments to postdoctoral research fellowships http://www.admin.uio.no/-admhb/reglhb/personal/tilsettingvitenskapelig/-regulationstermcondition.xml

Salary Postdoctoral Research Fellow (SKO, 1352) or Researcher (SKO, 1109), pay grade: 57 â 64 (NOK 455 900â518 800 depending on qualifications and seniority).

The application must include â Application letter including a statement of interest, briefly summarizing your scientific work and interests and describing how you fit the description of the person we seek

â CV (summarizing education, positions, pedagogical experience, administrative experience and other qualifying activity)

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

â A complete list of publications and unpublished works, and up to 5 academic work that applicant wishes to be considered by the evaluation committee

â Names and contact details of 2-3 references (name, relation to candidate, e-mail and telephone number)

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

Closing date for applications: 9 December 2011

Visit this webpage to apply for the position:

http://uio.easycruit.com/vacancy/623885/-64421?iso=no The University of Oslo has an agreement for all employees, aiming to secure rights to research results a.o.

The University of Oslo has a goal of recruiting more women in academic positions. Women are encouraged to apply.

In accordance with the University of Osloâs equal opportunities policy, we invite applications from all interested individuals regardless of gender or ethnicity.

Region Oslo, Norway

Job type Contract

Working hours Full-time

Working days Day

Application deadline 9 December 2011

Location Blindern, Oslo

Reference number 2011/14004

Home pages http://www.matnat.uio.no http://-www.cees.uio.no/ Contacts Prof. Kjetill S. Jakobsen k.s.jakobsen@bio.uio.no Telephone: +47 22 85 46 02

Project Coordinator Sissel Jentoft sissel.jentoft@bio.uio.no Telephone: +47 22 85 72 89

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UOttawa EvolutionaryEcologyGenetics

Postdoc position in evolutionary ecology / evolutionary genetics Rundle lab, Department of Biology, University of Ottawa

I am looking for a highly motivated postdoctoral fellow with a keen interest in evolutionary ecology and/or evolutionary genetics. Although project(s) are flexible and could compliment various research in my lab (http://-mysite.science.uottawa.ca/hrundle), I am especially interested in those with a background and interest in one or more of the following:

1) life history studies of antler flies (Protopiophila litigate) in the wild (in collaboration with R. Bonduriansky, UNSW). This is a powerful model system in which it's possible to come very close to measuring male lifetime fitness in undisturbed populations in nature, and manipulative lab experiments are also feasible, providing great potential to study the dynamics of life history traits, sexual selection, senescence, condition-dependence, etc.

2) genetic drift and its effects on genetic covariance structure, the subsequent response to selection, and the evolution of reproductive isolation using experimental evolution in Drosophila serrata.

3) manipulative tests of the conditions favouring the evolution of sex in the filamentous fungus Aspergillus nidulans (with S. Schoustra, Wageningen University and R. Kassen, uOttawa).

Good communication and interpersonal skills, a strong

work ethic, and the ability to think creatively and critically are also assets.

The position is for two years, comes with a competitive salary, and the start date is flexible. Applications should include a cover letter, a curriculum vitae, a short (~1 page) description of research interests, and the names and contact information (including e-mail) of two referees. All application materials should be submitted via email, as a single pdf, to Howard Rundle (hrundle@uottawa.ca), to whom queries may also be addressed. Evaluation of applications will begin immediately and continue until the position is filled.

Located at the confluence of English and French Canada, Ottawa is a rich and vibrant G8 national capital of approximately 1 million inhabitants (http://-www.ottawatourism.ca). The city offers a wide range of cultural activities in the visual and performing arts, as well as easy access to green spaces and wilderness. The University of Ottawa is located next to the historic Rideau Canal, steps from Parliament and within easy access to a wide range of research facilities of interest to evolutionary biologists including the Canadian Museum of Nature, the National Wildlife Research Center, Health Canada, and Environment Canada. Carleton University is only a few km away and research ties between the two Biology Departments are strong.

The Department of Biology has an active group of evolutionary biologists with diverse interests (http:/-/www.evolution.uottawa.ca). Ottawa is also playing host to the first joint meeting of the SSE, ASN, SSB, ESEB, and CSEE in July of 2012 (www.evolution2012.org).

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; Skype: howarddrundle http://-www.science.uottawa.ca/ ~ hrund050 http://-www.evolution.uottawa.ca howard.rundle@uottawa.ca

UOulu EvolutionInformationUse

A postdoctoral position, funded by the Academy of Finland, available at the Department of Biology, University of Oulu, Oulu, Finland.

Accumulating evidence suggest that information is flowing among conspecific and heterospecific individuals but very little is known about its ecological and evolutionary effects. Our research team have demonstrated that interspecific information use affects important decisions, such as where to breed, how much invest in offspring and which behavioral traits to copy (e.g., Current Biology 17:1248-, Ecology 88:1622-, Proc. R. Soc. B 278:1736-), but many novel research questions are still awaiting further exploration.

The current research project can be built on different themes or combination of them depending on the skills and interests of the candidate. One of the main aims is to examine dispersal and breeding site selection of birds relative to presence and performance of con- and heterospecifics using a comprehensive long-term data base. Experimental field work is also possible using resident titmice and migratory flycatchers as model species. Field work will take place either in Oulu, or on the island of Gotland, in Sweden. Interspecific information use challenges many predictions of the traditional theories and provides many exciting and novel questions for theoretical examination. Studies will be done in collaboration with researchers from Lyon (France), Uppsala (Sweden), and Helsinki (Finland).

Applications and requirements: Minimum qualifications include a PhD in ecology, evolutionary or community ecology or related field and interest in social information use, and habitat selection. Good English speaking and writing skills are mandatory. Ideal candidate is a confident and independent scientist and has a good track record in publishing in leading journals. S/he also should have a strong background in analyzing large spatial and temporal data sets. An interest and skills for theoretical studies is a benefit, but not necessary.

The start of the position is flexible, but should preferably not be later than March 2012. Funding is available for 12 months with a possibility for an extension of 6-12 months. The salary will be based on the levels 5-6 of the demand level chart for Finnish universities and also is affected by the 'personal work performance, and will be 3300-3900 euros/month, including full health care benefits.

Interested applicants should email a statement of research interest, a full CV, and names and contact information of three academic referees (in pdf format) to Jukka Forsman (jukka.forsman@oulu.fi). Initial consideration of applicants start on December 9th, 2011, and position is open until a suitable candidate is found.

Informal enquiries are welcome (jukka.forsman@oulu.fi, phone: +358-(0)8-5531951.

Jukka Forsman <jukka.forsman@oulu.fi>

UPorto GenomicsOfSpeciation

Post-doctoral position: GENOMICS OF ECOLOGICAL SPECIATION IN BIRDS

A post-doctoral position is available for a bioinformatician/computational biologist, or an evolutionary biologist with experience in bioinformatics, population genomics or quantitative genetics, to join an international collaborative network working on the genomics of ecological speciation in birds. The successful applicant will be based at CIBIO-UP (Research Centre in Biodiversity and Genetic Resources, University of Porto, Portugal) with opportunities to visit different research teams abroad. The project has the scientific co-ordination of Martim Melo (CIBIO, Portugal) and Bengt Hansson (Lund University, Sweden).

We are using as study models two adaptive radiations in oceanic island finches: the Tristan buntings and the Gulf of Guinea seedeaters. The study models have been chosen for their simplicity and because molecular and ecological data indicate that selection has played a major role in the diversification of these systems.

English is the working language at CIBIO.

AIM. The candidate will hold the important role of coordinating and supervising the handling and analysis of genomic data produced by different research teams using high-throughput sequencing. There is the possibility of contributing in the assembly and annotation of the genome of one of the model species. The candidate should be available to participate in student supervision and in paper writing-up. Besides the willingness to work within this collaboration, the successful applicant will be encouraged to develop his/her own research lines within the project framework.

QUALIFICATIONS. Applicants must hold a PhD in a quantitative field (e.g., bioinformatics, computational biology, statistics) or have a research record in this area. An interest in population genetics and speciation is desirable. Preference will be given to candidates with experience in comparative/population/evolutionary genomics (e.g., database mining; analyses of genetic and genomic differentiation; detection of selection; genetic expression analyses; SNP detection; analysis of high-throughput sequencing data). Candidates with an evolutionary biology background and experience in quantitative analyses who are keen to take their research into the bioinformatics field are also welcome to apply. The candidate must be willing to work closely with a large number of researchers that are part of an international collaborative network (Portugal, South Africa, Sweden, United Kingdom).

TIMELINE. The post-doctoral grant is given for 12 months and is renewable for a further 12 months. The position is available from February 2012.

STIPEND. The value of the grant will follow the amounts stipulated by FCT for post-doctoral grants (BPD) based in Portugal: http://www.fct.pt/apoios/-bolsas/valores.phtml.pt APPLICATION PROCEDURE. Applications are open until the 31st of December of 2011. An application letter with the reference "Ref BPD Genómica Aves" must be sent together with the CV and a motivation letter to:

Sara Lemos Ferreira Gestora de Ciência e Tecnologia CIBIO - Centro de Investigação em Biodiversidade e Recursos Genéticos Campus Agrário de Vairão R. Padre Armando Quintas, Crasto, 4485-661 Vairão Portugal tel. 252 660 411 fax. 252 661 780 e-mail: bolsas.cibio@mail.icav.up.pt

Short-listed applicants will be interviewed before the final decision.

FURTHER INFORMATION Martim Melo: melo.martim@gmail.com http://cibio.up.pt/-cibio.php?content=3Dmembers&menu=-3Dmembers&member=3Dmfmelo Bengt Hansson: Bengt.Hansson@biol.lu.se http://www.lu.se/-bengt-hansson CIBIOResearch Centre in Biodiversity and Genetic Resources http://-cibio.up.pt/ Project: http://cibio.up.pt/cibio.php?content=projs&menu=members&member=mfmelo&state=ongoing&p

melo.martim@gmail.com

Uppsala 2PDF PhD GenomicSelection

Dear All,

As part of the recently funded MISTRA project, we are pleased to announce vanacies for two post-doctoral researchers in quantitative genetics http://www.slu.se/-sv/For-dig-som/lediga-anstallningar/ reference SLU ua 3801/2011. The Mistra programme Mistra Biotech - Biotechnology for Sustainable and Competitive Agriculture and Food Systems starts in the beginning of

2012. The programme is interdisciplinary with the research areas plant biotechnology, novel molecular breeding tools, ethics, consumers' attitudes and choices and Swedish competitiveness. A centre for agriculture and food system analysis and synthesis will be developed within the programme. Within this programme two positions as Post-Doctoral Researcher are available at the Department of Animal Breeding and Genetics, SLU in Uppsala.

Duties: The specific tasks of these posts encompass:

1) Developing a decision-support tool for implementation of genomic selection.

2) Developing methods and tools for analysis and prediction in order to exploit the potential of genomic selection with whole genome sequence information.

3) Develop genotyping and sequencing strategies that will be applied on Swedish Red dairy cattle.

4) Contribute to the development of a molecular toolbox for a novel domestic plant species: Lepidium campestre, together with a PhD student.

5) Interact with all other component projects within Mistra Biotech. The two post-docs will work in a team together with a PhD student and researchers in plant and animal breeding as well as bioinformatics.

Qualifications: The candidates should have a PhD in quantitative genetics or statistical genetics. The candidates must be able to expand existing theory and translate this knowledge into analytical and predictive tools. Experience with bioinformatics is a necessity while experience with livestock breeding or plant breeding will be a bonus. Because the post holders will interact with a multidisciplinary team of scientists, both verbal and written English communication skills should be excellent.

as well as one PhD studentship with a focus on plant breeding

http://www.slu.se/en/education/postgraduate-studies/new-phd-student/read-more/?Uid=721
This post, which is placed within CP2, primarily deals with the development of the molecular toolbox for Lepidium Campestre. The post is shared between the department of Animal Breeding and Genetics in Uppsala and the department of Plant Breeding and Biotechnology in Alnarp. The PhD student will perform parts of his/her studies at both locations. The PhD student will collaborate closely with other researchers in CP2 and CP1. Duties: The responsibilities include: 1) Participation in the multiplication and controlled breeding of Lepidium Campestre as well as the collection of data and material from field trials. 2) Isolation of DNA from plant material, which will be sent off for RAD sequencing. 3) Population genetics analysis of RAD sequencing data on multiple Lepidium accessions. 4) Development of a high density linkage map for Lepidium. 5) Genome-wide analysis of field trial data and exploring the potential for genomic selection. 6) Interacting with all other component projects within Mistra. The project will be jointly supervised between the Department of Animal Breeding and Genetics in Uppsala and the Department of Plant Breeding and Biotechnology in Alnarp. The candidate will initially be based in Alnarp.

Qualifications The candidates should have an MSc in plant breeding, animal breeding or genetics. Experience with some molecular techniques will be required. Experience with controlled breeding of plants and/or field trials will be a bonus. Because the PhD student will interact with a multidisciplinary team of scientists, both verbal and written English communication skills must be excellent.

Please apply as stipulated online and not to me directly!

DJ de Koning

Professor in Animal Breeding Department of Animal Breeding and Genetics Swedish University of Agricultural Sciences Box 7023, 750 07 Uppsala, Sweden +46 18 672039 dj.de-koning@slu.se

For Roslin related matters: Genetics and Genomics The Roslin Institute and R(D)SVS, University of Edinburgh Easter Bush, Midlothian, EH25 9RG Telephone: 0131 651 9100 (switchboard) DJ.deKoning@Roslin.ed.ac.uk

Make 2012 the year you went to the 4th International Conference on Quantitative Genetics www.icqg2012.org.uk – The University of Edinburgh is a charitable body, registered in Scotland, with registration number SC005336. Scotland, with registration number SC005336.

URochester VenomEvolution

Applications are invited for a postdoctoral position in the Werren laboratory, Biology Department, University of Rochester to investigate the evolution and function of parasitoid venoms. Using the parasitoid Nasonia and its fly hosts as a springboard, we are investigating the functions of diverse novel parasitoid venom proteins by genetic, RNAseq and proteomic approaches. Molecular evolution of venom proteins will be studied in a diverse

set of parasitic wasps. The functional and evolutionary approaches are then combined to investigate how venom function evolves in response to changes in hosts and in generalist versus specialist parasitoids. The research is very interdisciplinary. Therefore, we are especially seeking candidates with experience in more than one of the following areas and strengths in at least one: (a) molecular evolution, (b) insect genetics, (c) computational biology, (d) molecular biology, and/or (e) biochemistry. Candidates who enjoy interdisciplinary approaches to research are encouraged to apply. If you are interested in joining this exciting project, please contact John (Jack) Werren at werr@mail.rochester.edu.

John (Jack) Werren Professor of Biology University of Rochester Rochester, NY 14627 Office: 585-275-3694 Lab: 585-275-3889 Fax: 585-275-2070 web:

http://www.rochester.edu/College/BIO/labs/-WerrenLab/index.html werr@mail.rochester.edu

UStAndrews EvolutionCognition

Post-doctoral position: Evolution of cognition

University of St Andrews, Schools of Biology & Psychology

Research Fellow - Reference: JC1087

You will join a 3-year BBSRC-funded project exploring the role that cognition plays in nest building by birds, including which parts of the brain control nest building. This will be done using a multi-stranded approach incorporating both field and laboratory experiments and two 'model' systems: weaver birds and zebra finches. This project offers the exciting opportunity to address several questions. For instance, why does 'complex' cognition evolve? Can 'complex' cognition be quantified? Why does tool manufacture and use evolve?

You will be a highly motivated individual with an interest in brain and behaviour in non-human animals. You will have a PhD in biology, psychology or neuroscience and relevant experience.

Salary: £29,972 - £30,870 per annum

Potential applicants are encouraged to contact Dr Sue Healy (susan.healy@st-andrews.ac.uk) for further information.

The post is available for 36 months starting January 2012.

Closing Date: 2 December 2011 Interview Date: 9 December 2011

We encourage applicants to apply online at www.vacancies.st-andrews.ac.uk/welcome.aspx, however if you are unable to do this, please call +44 (0)1334 462571 for an application pack.

Dr David M Shuker NERC Advanced Research Fellow School of Biology University of St Andrews Harold Mitchell Building St Andrews Fife KY16 9TH UK Email: david.shuker@st-andrews.ac.uk

LAB WEBSITE: http://biology.st-andrews.ac.uk/-shuker Tel: +44 1334 463 376 Fax: +44 1334 463 366

dms14@st-andrews.ac.uk

UTexas Austin TumorEvolutionaryModels

POSITION TITLE: Postdoctoral Researcher

POSITION SUMMARY: The Center for Computational Neuroscience at NeuroTexas Institute at St. David's HealthCare seeks a highly motivated individual who is interested in the genetics and genomics of glioblastoma multiformae (GBM). Of particular interest, is the development of evolutionary-genetic models suitable for studying the dynamics of mutations within growing GBM tumors and related bioinformatic approaches for model validation using DNA/RNA sequence data from GBM tumors.

NeuroTexas Institute is a highly multidisciplinary clinical, research and educational institute affiliated with St. David's HealthCare in Austin, TX. The Institute enjoys an open and highly productive relationship with the adjacent University of Texas at Austin. This particular research is part of an ongoing collaboration with Claus Wilke at UT - Austin, and there may be opportunities for conducting novel DNA/RNA sequencing studies of tumors specimens collected at the Institute.

The two-year position is available beginning January 1, 2012. Candidates must have completed their PhDs in computational biology, computer science, mathematics or physics. Ideal candidates will be familiar with evolutionary theory and modeling, DNA/RNA sequence analysis and bioinformatics, and systems biological approaches. Previous knowledge and experience with cancer genomics and modeling is an additional plus.

Please submit a letter of intent, curriculum vitae and the names and addresses of two references to:

Dr. Matthew C. Cowperthwaite Center for Computational Neuroscience NeuroTexas Institute at St. David's HealthCare 1015 East 32nd Street, Suite 404 Austin, Texas 78705 E-mail: matthew.cowperthwaite@stdavids.com

Matthew.Cowperthwaite@stdavids.com

UToronto 2 EvolutionaryBiol

The Department of Ecology and Evolutionary Biology < www.eeb.utoronto.ca > at the University of Toronto invites applications for Departmental Postdoctoral Fellowships in the areas of Ecology and Evolutionary Biology, broadly defined. Two positions are available. Positions may continue for two years, subject to review after one year, and can begin as early as July 1, 2012. The salary starts at $40,000 per year, with research expenses covered by the Postdoctoral 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 _www.eeb.utoronto.ca/postdoc/_ 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 first contact 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 Dec. 5, 2011.

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 field station dedicated to ecological research (the Koffler Scientific Reserve, 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 theCentre for the Analysis of Genome Evolution and Function (_www.cagef.utoronto.ca_).

– Megan Frederickson Assistant Professor Department of Ecology and Evolutionary Biology University of Toronto 25 Harbord Street Toronto, Ontario, M5S 3G5, Canada Email: m.frederickson@utoronto.ca Web: labs.eeb.utoronto.ca/frederickson

m.frederickson@utoronto.ca

UVirginia DiseaseEvolution

The Department of Biology at the University of Virginia invites applications for a postdoctoral Research Associate position in evolution and ecology of infectious disease. The position will be in the research groups of Janis Antonovics and Martin Wu at the University of Virginia, in collaboration with Michael Hood at Amherst College, as part of the project "Disease at the Margins of Species Ranges: Anther Smut on Alpine Species" funded by an NSF/NIH grant through the Ecology of Infectious Disease Panel. We seek applicants with research interests in the ecology and evolution of infectious disease, population genetics, and genomics, and with an enthusiasm for both lab and field research.

A Ph.D. is required with 0-2 years of postdoctoral experience. International travel is involved and the ability to hike substantial distances and elevations is required. Knowledge of Italian or a willingness to learn is desirable. The successful applicant will plan, conduct, and publish research, contribute to the professional development of undergraduate and graduate students, and assist with data dissemination and lab management.

This is a two-year appointment; however, appointment may be renewed for an additional year, contingent upon available funding and satisfactory performance.

To apply, please submit a candidate profile online through Jobs@UVA (https://jobs.virginia.edu) and

electronically attach: curriculum vitae, a cover letter, and contact information for three (3) references; search on posting number 0608904.

Review of applications will begin December 15, 2011; however, the position will remain open until filled.

Questions regarding this position should be directed to:

Dr. Janis Antonovics 434-243-5076 ja8n@virginia.edu

Questions regarding the Candidate Profile process or Jobs@UVA should be directed to:

Mary Liberman 434-982-5613 mj5ac@virginia.edu

The University of Virginia is an Equal Opportunity/Affirmative Action Employer. Women, Minorities, Veterans and Persons with Disabilities are encouraged to apply.

– Janis Antonovics, Ph.D., Biology Department, Gilmer Hall, McCormick Road, University of Virginia, Charlottesville, VA 22904, USA

Phone: 434-243-5076 Fax: 434-982-5626 http://-people.virginia.edu/˜ja8n/labhome/homepage.htm Janis Antonovics <ja8n@virginia.edu>

UWindsor EvolutionGenomics

Postdoctoral Fellow/Research Associate Position in Ecological Genomics; Great Lakes Institute for Environmental Research (GLIER); University of Windsor, Canada Candidates are sought for a two-year postdoctoral position in Ecological Genomics at the GLIER. The project involves the investigation of the complex linkages between low chronic metal exposure and its effects on genome stability, and the long-term health of natural populations. Interdisciplinary approaches will be used to detail the genetic basis of evolved metal tolerance in natural populations and the genetic basis of fitness differences. We are seeking a highly motivated individual with a solid publication record in peer-reviewed journals, strong interest in the evolution of aquatic invertebrates and aquatic ecosystem health and a demonstrated interest and/or experience in team-based and interdisciplinary projects. The candidate will work closely with members of the newly funded NSERC CREATE Training Network in Aquatic Ecosystem Health that involves GLIER researchers as well as national and international collaborators http://-www.uwindsor.ca/erasmus-create/. The post-doctoral researcher will have access to excellent genomics facilities housed at GLIER. Familiarity with one or more of the following would be an advantage: comparative genomics, phylogenetic analysis, selection detection algorithms, genome evolution and programming for bioinformatics. Experience with next generation sequencing or sequence data and related bioinformatic/ computational/ programming skills are strongly desired. Experience working with aquatic invertebrates is an asset. The position can begin as early as January 2012. Review of applicants will begin December 1st, 2011. Interested applicants should send their CV, a brief statement of research interest along with a list of 3 references to Dr. Melania Cristescu at Email: mcris@uwindsor.ca

Melania E. Cristescu Associate Professor Director, NSERC CREATE Training Program in Aquatic Ecosystem Health University of Windsor Great Lakes Institute for Environmental Research 401 Sunset Ave Windsor Ontario Canada N9B 3P4

Phone: (519) 253-3000 Ext. 3763 FAX: (519) 971-3616 E-Mail: mcris@uwindsor.ca www.uwindsor.ca/glier/-melania-cristescu www.uwindsor.ca/erasmus-create Melania Cristescu <mcris@uwindsor.ca>

UWindsor EvolutionGenomics 2

Postdoctoral Fellow/ Research Associate Position in Environmental Genomics; Great Lakes Institute for Environmental Research (GLIER) at the University of Windsor, Canada We invite applicants for a postdoctoral position in Environmental Genomics at the GLIER. The position is funded by the Canadian Aquatic Invasive Species Network (CAISN). GLIER offers a collaborative environment within the fields of species invasions, evolutionary genetics, genomics, toxicology, environmental chemistry, and ecology. The CAISN network offers ample opportunities for interactions with researchers across Canada. The postdoctoral researcher will have access to excellent genomics facilities housed at GLIER. The Postdoctoral Fellow will be involved in developing early detection tools and will use pyrosequencing of environmental samples collected from key port areas and from ballast water of arriving vessels to identify the complement of aquatic invasive species as well as the native species present in Canadian waters. See our web pages at http://www.caisn.ca/-; http://www.uwindsor.ca/glier/hugh-macisaac/; for a description of CAISN related research projects. Experience with next gen sequencing or sequence data and related bioinformatic/ computational/ program-

ming skills is essential. Familiarity with one or more of the following would be an advantage: genomics, phylogenetic analysis, selection detection algorithms, genome evolution, and programming for bioinformatics. Experience working with aquatic invertebrates is an asset. The candidate should have a good publication record and ability to work well in a collaborative research environment. The position is for one year, but can be renewed for a second year contingent on progress. The position may be filled as early as January 2012. Review of applicants will begin December 1st, 2011. Interested applicants should send their CV, a brief statement of research interest, and names and email addresses of three persons willing to provide letters of reference. For more information and inquiries about the position please contact Melania Cristescu at mcris@uwindsor.ca or Hugh MacIsaac, Director of CAISN at hughm@uwindsor.ca

Melania E. Cristescu Associate Professor Director, NSERC CREATE Training Program in Aquatic Ecosystem Health University of Windsor Great Lakes Institute for Environmental Research 401 Sunset Ave Windsor Ontario Canada N9B 3P4

Phone: (519) 253-3000 Ext. 3763 FAX: (519) 971-3616 E-Mail: mcris@uwindsor.ca www.uwindsor.ca/glier/-melania-cristescu www.uwindsor.ca/erasmus-create Melania Cristescu <mcris@uwindsor.ca>

UWMadison FreshwaterBiodiversity

Post-doctoral opportunity: Conservation hotspots for global freshwater biodiversity at UW-Madison

The McIntyre lab at UW-Madison is seeking a post-doc to help lead quantitative analyses of conservation hotspots for global freshwater biodiversity.The position is part of an NSF-funded project on conserving freshwater ecosystem services, and involves close collaboration with global geospatial analysts (led by Charles Vorosmarty) and economists (led by Faye Duchin) as well as many academic and NGO colleagues.The work will build upon our recent analysis of global threats to river ecosystems and their services (Vorosmarty et al. 2010 /Nature/).

The post-doc will lead spatial analyses to identify freshwater conservation hotspots around the world.Ancillary analyses may address the underlying causes, future prospects, and prioritization of hotspot areas, or any other issues surrounding freshwater ecosystem services.In addition, the project will involve using expert elicitation surveys to quantify professional opinion about the relative degree of threat posed to freshwaters by different types of stressors.We anticipate that this work will help to define near-term and long-term agendas for global freshwater conservation efforts.*There will also be considerable latitude to pursue spin-off collaborations devised by the post-doc.*

Desired qualifications include:

-expertise in global freshwater biodiversity and biogeography

-experience conducting large-scale spatial analysis using GIS

-experience with conservation prioritization/optimization models

-experience with expert elicitation surveys

-a strong record of publication based on independent thinking

-a collaborative approach to science but ability to work on tasks independently

-an interest in furthering conservation on the ground

The position will begin between January-June 2012, and funding is available for at least 2 years, pending performance.A competitive post-doc salary will be offered, including health benefits.The position will be based in the Center for Limnology at UW-Madison, which features a vibrant atmosphere in which collegial interactions among faculty, staff, post-docs, and graduate students are the norm.Madison is widely recognized for high quality of life (lively arts scene, access to outdoor recreation, public transportation), and costs of living are moderate.

To apply, please submit a letter of interest, curriculum vitae, three reprints, and contact information for three references to Valerie Seidel (vseidel@wisc.edu). Assemble documents into a single PDF file, and submit by email with subject line: “Post-doctoral Position–Global Change and Rivers”.

Review of applications will begin on 15 December 2011, and will continue until the position is filled.

Disclaimer: Unless confidentiality is requested in writing, information regarding the names of applicants must be released upon request. Finalists cannot be guaranteed confidentiality. UW-Madison is an equal opportunity/affirmative action employer. We promote excellence through diversity and encourage all qualified individuals to apply.

Valerie Seidel <vseidel@wisc.edu>

Vienna PopulationGenetics

Applications are invited for a two year postdoctoral research position in Molecular Ecology at the Konrad Lorenz Institute in Vienna, Austria. Research will focus on the population and evolutionary genetics of a wide range of organisms from human stomach bacteria to African mammals. Applicants are therefore expected to be experienced in maximum likelihood and Bayesian inference of coalescent processes using microsatellites and multilocus/next generation DNA sequence data. Programming skills would be desirable. The successful candidate will have a PhD in a relevant field as well as a good research track record.

The institute is part of the Department of Integrative Biology at the University of Veterinary Medicine (Vetmeduni) Vienna and is situated in the Vienna woods, within easy reach of the city centre. More information can be found on our website (http://www.vu-wien.ac.at/konrad-lorenz-institute-of-ethology/). In accordance with §41 of the 2002 Universities Act, the Vemeduni Vienna is striving to attain a balanced representation of men and women, especially on its scientific staff. Applications from qualified women are thus particularly welcomed.

Applications should include a cover letter, curriculum vitae, appropriate reprints, a statement of research interests, and the names and email addresses of three referees. Please send enquiries and applications in an email to: Dr. Yoshan Moodley, yoshan.moodley@vetmeduni.ac.at, Konrad Lorenz Institute, Savoyenstraße 1A, 1160 Vienna, Austria. The position must be filled by the 1st of January 2012, so applications will be considered as they arrive, until a closing date of 15th December 2011.

Moodley Yoshan <Yoshan.Moodley@vetmeduni.ac.at>

WorkshopsCourses

BodegaBay AppliedPhylogenetics Mar10-17

UC Davis WORKSHOP IN APPLIED PHYLOGENETICS at Bodega Marine Laboratory, Bodega Bay, California March 10-17, 2012

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 univer-

sities. 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 thirteenth 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 extensive computing resources and on-site housing. 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.

Specific Topics to be 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, character correlation, 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 2012 workshop

* Jeremy Brown * Brian Moore

* Jonathan Eisen * Samantha Price

* Rich Glor * Bruce Rannala

* Tracy Heath * Bob Thomson

* John Huelsenbeck * Peter Wainwright

Plus special guest lecturers!!

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 10, leaving March 17) and transportation from Davis to BML.

Application Deadline. Applications are due by January 9, 2012. Please send a completed application form (available at http://bodegaphylo.wikispot.org/-2012_Workshop) 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 January 15, 2012 of acceptance.

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 GalaxySoftware Jan23

2012 Galaxy Developer Workshop, Cesky Krumlov, Czech Republic

Homepage: http://evomics.org/workshops/galaxy-developer-workshop/ Galaxy (http://galaxy.psu.edu/) has emerged as a powerful and widely adopted solution for the informatics challenges of modern data-rich biology. Galaxy enables complex, large scale analyses by linking diverse tools and data sources in a single web-based interface supported by dynamically scalable computational resources. Galaxy is available as a free

public web site, and as open source software that can be installed locally or on the cloud.

To register or find out more about the Galaxy Developer Workshop please visit: http://evomics.org/-workshops/galaxy-developer-workshop/. The Workshop is being held immediately after the 2012 Workshop on Genomics in Èeský Krumlov, Czech Republic and in parallel with several Advanced Topic Sessions (http://evomics.org).

This workshop is aimed at:

IT and Bioinformatics staff: Galaxy is an easy to use, web-based tool that enables your researchers to perform data integration and analysis, in house, without handholding from you. This workshop will teach you how to install your own instance of Galaxy, either on your local compute infrastructure, or on the cloud.

Bioinformatics tool developers: Galaxy provides mechanisms for integrating your own tools and the tools of others into Galaxy instances. This workshop will cover how to define your tools in Galaxy, and how to then make those definitions available for installation in any Galaxy instance, thus making your tools much more accessible to the research community.

This Workshop also includes contributed talks from participants. If you have a topic of interest to the workshop's audience, then please submit a short (500 words or less) abstract along with your registration. Topics do not have to be directly related to Galaxy, but they should be of interest to those working with the integration, analysis, and sharing of large biological datasets.

"Handley, Scott" <shandley@mrce.wustl.edu>

France Metabarcoding

Dear All,

In the context of the european project EcoChange, the Laboratoire d'Ecologie Alpine (LECA) organizes a spring school about DNA Metabarcoding applied to biodiversity assessment and diet analysis.

Many ecological questions rely on the knowledge of the list of species involved in the studied process. Tackling this demand using standard methods (botanical relevés, micro-histology, palynology) is often a difficult task that relies on highly qualified persons. DNA barcoding has proposed to use short standardized genomic sequences (barcode) as a character in taxonomical identification. DNA Metabarcoding use the same principle that associate DNA sequences to taxa for estimating biodiversity of an environmental sample. As all living organism spread cells in their environment, a PCR amplicon obtained with adequate primers from the total DNA extracted from an environmental sample can be consider as a mirror of the biodiversity present in the environment. The pertinent choice of the primer pair allows to focus on a specific group as, for example, plants. Then the sequencing of a large number of individual DNA molecules of the PCR amplicon using next generation sequencer allows to establish a list of taxa present in the sample. Depending of the sample (e.g. soil, water, permafrost, feces), DNA metabarcoding can be applied to many ecological studies such as plant community analysis, past ecosystem reconstruction, or diet assessment.

We propose a spring school including lectures and practical sessions on metabarcoding. This school is open for twenty participants (students, postdocs, or researchers).

Please visit http://metabarcoding.org for more information.

Applications including a short CV and a short motivation letter should be sent to spring2012@metabarcoding.org, with subject: "ECOCHANGE DNA Metabarcoding School 2012" no later than DECEMBER 15th 2011.

Best regards,

Dr Pierre Taberlet Laboratoire d'Ecologie Alpine (LECA) CNRS UMR 5553, Univ. Joseph Fourier, BP 53 38041 Grenoble Cedex 9, France Tel.: +33 476 63 54 33 FAX: +33 476 51 42 79

taberletpierre@gmail.com

Lyon EvolutionaryPaleontology Jan30-Feb10

I'm organising an international course that I'd like to announce in EvolDir. The course will be held in Lyon (France) from January 30 to February 10.

The course, open to any student, is part of the ENS Lyon "Biosciences Master" and is entitled "Paleontology", it is thus of interest for evolutionary biology students.

Thanks, Cyril Charles

Dear all,

We are happy to open the registration for European Course on Paleontology in Lyon (France). The course is based on conferences spreading out from January 30 to February 10, 2012.

Various research domains such as aspects of early life evolution, Dinosaurs, Primates, or Evo-Devo have been retained. Lecturers are selected on the basis on their work and competences concerning the retained topics. These topics will thus be presented by leaders of these areas. Every day, two lecturers of the same field will present their research and participate together to a round-table discussion with the students.

This year program will be announced soon (http://-/biologie.ens-lyon.fr/masterbiosciences/presentation-des-ue-1/les-ue-europe/ue-paleontology/), here is the list of some of last year lecturers: Zhe-Xi Luo (Carnegie Museum, Pittsburgh), Mike Benton (University of Bristol), Charles Wellman (University of Sheffield), Carole Gee (University of Bonn), Jean-Sébastien Steyer (National Natural History Museum, Paris), Emmanuel Fara (University of Burgundy, Dijon), Ann Huysseune (University of Ghent), Jean Vannier (University of Lyon1), and Francis Albarede (ENS Lyon).

All Students are welcome to this course, which will be held in English (up to 30 participants). Registration is free.

To register, please send an email to Cyril Charles (Cyril.Charles@ens-lyon.fr) or Laurent Viriot (Laurent.Viriot@ens-lyon.fr) with your current status (Master or PhD student) and the name of your research Institute. Please also indicate if you want to take the exam at the end of the course.

Best,

Cyril Charles et Laurent Viriot Office : +33 4 72 72 81 34

Cyril Charles

Assistant Professor Team 'Evo-Devo of Vertebrate Dentition' Institute of Functional Genomics of Lyon École Normale Supérieure de Lyon 46 allée d'Italie 69364 LYON Cedex 07 France

Office: +33 (0)4 72 72 81 34

Cyril Charles <cyril.charles@ens-lyon.fr>

OhioStateU SpeciesTrees Jan13-14

Workshop at the Ohio State University, Jan 13-14, 2012

Estimating Species Trees: a Phylogenetic Paradigm for the 21st Century

Recentcomputational and modeling advances have produced methods for estimating species trees directly. Accurateestimates of phylogenetic relationships can be extracted from genetic data with these new approaches, sometimes with less data, by directly modeling the causes of discordance in topology and branch lengths among gene trees. Such inferences are commonly impossible under the traditional phylogenetic paradigm because of the potential for the idiosyncrasies of gene trees to obscure the actual history of species divergence.

We are offering this workshop to not only increase the visibility and use of these methods, but also address a number of significant challenges to estimating species trees, to assure that the advantages these methods offer reach a broad community of users. The goals of the workshop are to: (i) provide an understanding of the theoretical underpinnings of current methodology, (ii) present empirical examples demonstrating the utility of current methodology as well as its limitations, and (iii) offer instruction on the technical aspects involved in using current software. This will be accomplished through the combination of a series of lectures (day one) and hands-on computer training (day two). Participation in the workshop costs $25, and requires registration (go to http://conference.stat.osu.edu/est2012/ for registration information). Some travel funding is available for students and post-docs (see the website for details about applying for travel funding).

Co-organizers: L. Lacey Knowles, University of Michigan, and Laura S. Kubatko, Ohio State University

Location of theworkshop: Mathematical Biosciences Institute (MBI) at The Ohio State University, January 13-14, 2012.

Speakers and schedule for workshop will be posted on the website. Confirmed speakers include Bryan Carstens, Lisle Gibbs, Frode Jacobsen, Hayley Lanier, Liang Liu, and Stacey Smith.

For more information please contact: Dr. Laura Kubatko, Kubatko.2@osu.edu

This workshop has been made possible by funds generously provided by the National Science Foundation, the Mathematical Biosciences Institute, the Department of Statistics, and the Department of Evolution, Ecology, and Organismal Biology at The Ohio State University.

http://conference.stat.osu.edu/est2012/ lkubatko@stat.osu.edu

Smithsonian Panama ConservationGenetics Jan25-Feb4

The American Genetic Association, NOAHS-Smithsonian Institution and the Smithsonian Tropical Research Institute (STRI) is presenting a 10 day intensive course January 25, 2012 through February 4, 2012, at the Smithsonian Tropical Research Institute in the Republic of Panama.

TOPICS include:

Sampling strategies Technologies for detecting genetic variation Genetic analysis: bioinformatics and the use of molecular genetic databases estimating genetic diversity with molecular markers phylogenetic algorithms: use and interpretation phylogeography population structure and demographic history kinship and paternity assessment detection of signatures of selection Emerging pathogens in natural populations Integration of genetics and genomics in conservation management Application of next generation sequencing and array technologies in conservation Course Leadership

The course will be directed by Dr. Stephen J. O'Brien and taught by renowned scientists in methods, interpretation, and applications of molecular genetic analyses for conservation of endangered species. Local hosts include, Dr. Eldredge Bermingham, Director and Senior Staff Scientist and Dr. Owen McMillan, Staff Scientist.

Faculty: The visiting faculty for 2012 will include the following (subject to change):

Scott Baker, Oregon State University Brian Bowen, Hawaii Institute of Marine Biology, University of Hawaii Robert Wayne, Department of Ecology and Evolutionary Biology, UCLA Warren Johnson, Laboratory of Genomic Diversity, NCI Klaus Koepfl, Laboratory of Genomic Diversity, NCI Bailey Kessing, Basic Science Program, SAIC-Frederick, Inc. Agostinho Antunes, CIMAR, Portugal Andrew Crawford, Department of Biological Sciences, Universidad de los Andes Oliver Ryder, Center for Reproduction of Endangered Species, San Diego Zoo Toto Olivera, Howard Hughes Medical Institute Owen McMillan, Smithsonian Tropical Research Institute (STRI) Eldredge Bermingham, Smithsonian Tropical Research Institute (STRI) James Wilgenbusch, Computational Science, Florida State University In addition, guest lecturers from STRI will be giving lectures on their research.

Who should apply?

Applicants should be conservation-minded scientists (advanced graduate students, post-docs, teachers, and researchers with advanced degrees) from academia, government, non-government organizations, or industry who are studying the genetics of endangered species and who will apply the knowledge gained from this course to the conservation of such species.

Interested individuals can contact us at info@raicg.org.

johnsonw11661@gmail.com

UIdaho LandscapePopulationgenetics Jan18-May2

Online Landscape Genetics Graduate Student Course Announcement When: Jan 18 ' May 2, 2012, Wed 8:30 ' 10:30 PST, Cost $750

Course Organizers: Melanie Murphy, Helene Wagner, and Lisette Waits Co-Instructors: Niko Balkenhol, Janine Bolliger, Sam Cushman, Rodney Dyer, Marie-Josee Fortin, Olivier François, Stephane Joost, Nusha Keyghobadi, Erin Landguth, and Steve Spear

Course description This course on Landscape Genetics provides a unique opportunity for interdisciplinary training and provides an overview of the field of landscape genetics. The course caters to students in both basic and applied ecology, especially conservation/population genetics, landscape ecology and conservation biology. A key objective of landscape genetics is to study how landscape modification and habitat fragmentation affect organism dispersal and gene flow across the landscape. Landscape genetics requires highly interdisciplinary specialized skills making intensive use of technical population genetic skills and spatial analysis tools (spatial statistics, GIS tools and remote sensing). Even when students receive disciplinary training in these areas, educational programs often lack the necessary linkage and synthesis among disciplines. This linkage can only be accomplished after experts from each discipline work together to develop guiding principles for this new research area. Landscape Genetics will be concurrently offered at six universities in North America and Europe giving students the opportunity to learn from international experts and work with peers from outside institutions. For students who are not members of the participating institutions, we are of-

fering a web-based online course to reach a broader audience. Each course meeting will start with a live web-cast lecture (no special software required) by an expert on the topic that introduces foundations and methods and highlights points for discussion in local seminar groups. After breaking out into local course group discussion (including a discussion group for online course students), a web-based discussion across campuses will wrap up the weekly topic. Students who are unable to make it to live-cast of lectures and need to view taped lectures should contact the course coordinators to make special arrangements. In addition, students may choose to participate in optional interdisciplinary group team projects with web-based collaboration across institutions. Course topics - Landscape genetics framework, Measuring gene flow, Alternative views of landscapes - Spatial analysis framework, Identifying discrete populations - Incorporating landscape data, Matrix resistance approaches in landscape genetics - Distance-based methods, Model selection and validation - Role of simulation modeling, Network-based methods - Landscape genetics of adaptive variation

How to register? Contact Lisette Waits, lwaits@uidaho.edu to register for the class.

Note: University credit will not be provided but students who need course credit can set up an independent study course at their home institution and turn in specific assignments during the semester. Contact Lisette Waits if you are interested in this option.

Funding provided by the American Genetics Association and Canadian Institute of Ecology and Evolution (CIEE)

Related American Genetic Association (AGA) and CIEE sponsored Graduate Mini-Course in May 2012 After the course, project participants may decide to continue working on the group research project for another term with the aim of writing a collaborative manuscript for publication. With support from AGA and CIEE a Graduate Mini-Course (not for credit) will be held near Toronto, Canada, May 20 ' 26, 2012 to promote intensive collaboration on manuscripts and provide professional networking opportunities. Participation in the Landscape Genetics Course and in a group term project are prerequisites for the AGA-CIEE Graduate Mini-Course, and participants will be selected primarily based on the merit of their application and contribution to the group project.

Lisette Waits, PHD Professor Fish and Wildlife Resources Center for Research on Invasive Species and Small Populations Laboratory for Conservation and Ecological Genetics University of Idaho PO Box 441136 Moscow, ID 83844-1136 Phone: (208) 885 7823 Fax: (208) 885 9080 lwaits@uidaho.edu http://www.uidaho.edu/cnr/-fishwild/lisettewaits http://www.cnr.uidaho.edu/-crissp http://www.cnr.uidaho.edu/lecg/ http://-www.cals.uidaho.edu/igert2/ lwaits@uidaho.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.