
E v o l D i r

September 1, 2007

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

Forward

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.

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Conferences

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Aspen Colorado Bioinformatics Nov30-Dec2

Dear ISCB Members and Colleagues,

CALL FOR ROCKY '07 ABSTRACTS.

5th Annual Rocky Mountain Bioinformatics Conference
(Rocky '07)

November 30 - December 2, 2007. Snowmass/Aspen,
Colorado

Abstracts = DEADLINE DATE=October 8, 2007
<<http://www.iscb.org/rocky07/presentation.htm>>
<http://www.iscb.org/rocky07/presentation.htm>

The 5th Annual Rocky Mountain Bioinformatics Conference (Rocky '07) will be held this year in Snowmass/Aspen, Colorado, November 30 - December 2, 2007 at the Silvertree Resort. You are invited to submit an abstract for a short talk or poster describing your work.

The conference is sponsored by the International Society for Computational Biology (ISCB) with local organizing by the University of Colorado Center for Computational Biology and chaired by Lawrence Hunter, Ph.D., Director Center for Computational Pharmacology University of Colorado School of Medicine.

The purpose of the meeting is to build bridges among the diverse research and educational community work-

ing in the computational biosciences. The conference has an exciting lineup of invited speakers and many opportunities for networking and research exchange. Please feel free to distribute this invitation to interested colleagues.

For further information about the meeting, please visit our web site, <<http://www.iscb.org/rocky07>> <http://www.iscb.org/rocky07>> Industry sponsorship opportunities are also available here: <http://www.iscb.org/rocky07/industry.htm>

ISCB Admin <admin@iscb.org>

Hangzhou QuantGenetics Aug19-24 FinalAnnouncement

Final Announcement The 3rd International Conference of Quantitative Genetics Zhejiang University, Hangzhou, China, August 19-24, 2007 (<http://www.icqg.org/>) The 3rd International Conference on Quantitative Genetics (ICQG3) will be held during August 19-24, 2007 hosted by Zhejiang University in Hangzhou, China. As with the 1st ICQG in Ames, Iowa in 1976 and the 2nd ICQG in Raleigh, North Carolina in 1987, the 3rd Conference will be a comprehensive survey of the current status of quantitative genetics. New technologies in areas ranging from genomics and molecular genetics to statistics are providing both op-

portunities and challenges for our understanding of the genetic basis of quantitative traits in natural populations, the evolution of characters, and use for plant and animal breeding. The current conference

program with listed

speakers is appended. The Conference Hall is located in Sir Run Run Shaw Science Building at Yu-Quan Campus of Zhejiang University. International participants, invited speakers, and accompaniers will stay in an international hotel,

the Dragon Hotel, in the downtown of Hangzhou. Chinese participants will stay in Yu-Quan Hotel across to Yu-Quan Campus of Zhejiang University. All venues are in easy walking distance and bus transportation will be provided. Zhejiang University is one of the few top-rank research institutions in China. It is a comprehensive institute with a full range of disciplines. With a faculty capable of top-level and large-scale research and a high proportion of graduate students, the university has been undertaking projects, both basic and applied, to address pressing issues and challenges of today and of the future. The City of Hangzhou is one of the seven ancient capital cities of China. It has a population of 3.72 million and has a recorded history spanning 2100 years. Marco Polo described Hangzhou as the "Most beautiful, magnificent, and heavenly city in the world." Located in China's most developed southeast coastal area, Hangzhou is renowned for its thriving economy, colorful culture and beautiful landscape, especially its famed West Lake and Tea House. The Conference welcomes participants to submit contributed papers. Only an abstract is needed and is to be submitted at

registration for the conference. A number of contributed papers have been selected for oral presentation in an appropriate session of the conference. Accompanying persons are also welcomed, and a special program for them will be arranged. The detail arrangements for one-day tours and post-conference tours are given on

sightseeing. The tour reservation should be processed on August 19 during the registration time. The tour company will set up a desk at the Dragon Hotel.

zeng@statgen.ncsu.edu

attend the..

ANNUAL ARTHROPOD GENOMICS SYMPOSIUM

As more arthropod genomes are sequenced, we are faced with the ever-growing need for databases and bioinformatics tools based on common platforms to support comparative genomics. The Arthropod Genomics Consortium was formed to address these issues. The first projects focus on databases and tools for literature annotation. You are invited to join the fun as we share our progress with the arthropod research community, by providing feedback on these projects and input new possibilities.

Keynote speakers:

Thom Kaufman, Fly Base and Bruce Schatz, BeeSpace Indiana University Univ. of Illinois at Urbana-Champaign

April 10 - 13, 2008, in Kansas City at the Marriott Downtown Sponsored by the K-State Arthropod Genomics Center, Kansas State University

TENTATIVE SCHEDULE: Thursday late afternoon/evening, April 10 Workshop: Databases and Bioinformatics Tools for Arthropod Genomics Demonstration room: Database and bioinformatics tools developers will be available throughout the meeting to provide hands on demonstrations.

Friday & Saturday, April 11 & 12 Platform and Poster sessions. Speakers to include experts in arthropod genomics and bioinformatics with applications in genomics. Additional speakers selected from contributed posters.

Visit our website, www.k-state.edu/agc, for updates as details are finalized.

Share this announcement with colleagues and students!

Add your name to the Symposium mailing list, by sending your contact information to dmerrill@k-state.edu.

Doris Merrill, Program Coordinator K-State Arthropod Genomics Center Division of Biology, Kansas State University 116 Ackert Hall, Manhattan, KS 66506-4901 (785) 532-3482, dmerrill@k-state.edu www.k-state.edu/agc dmerrill@ksu.edu

**KansasCity ArthropodGenomics
Apr10-13**

KansasCity Genomics Nov9-11

Save the dates of April 10-13, 2008, and make plans to

Registration is now open to attend the 5th Annual Ecological Genomics Symposium on November 9 - 11,

2007, at the InterContinental Hotel in Kansas City on the Country Club Plaza. The Genes in Ecology, Ecology in Genes Symposium will begin on Friday evening, November 9, and conclude at noon on Sunday, November 11. For more complete information regarding poster abstract submission, registration and hotel reservations, please visit our Symposium website, www.ksu.edu/ecogen/symp2007.html .

FEATURED SPEAKERS:

Andrew Clark, Cornell University

“Genome-wide population genetic inference from 454 and Solexa sequence runs”

Michael A. Herman, Kansas State University

“Ecological genomics of nematode community responses: Model and non-model approaches”

Stefan Jansson, Umeå $\frac{1}{2}$ University, Sweden

“Natural variation in *Populus*”

Thomas E. Juenger, University of Texas at Austin

“Natural variation in the physiology of *Arabidopsis thaliana*: The ecological genetics of drought adaptation and acclimation”

James H. Marden, Penn State University

“Functional genomics of a butterfly metapopulation: Genes that matter for population dynamics, life history traits, and spatial ecology”

Therese Ann Markow, University of Arizona

“Ecological genomics of cactophilic desert *Drosophila*”

Jennifer B.H. Martiny, University of California, Irvine

“The ecological significance of microbial genetic diversity”

Mónica Medina, University of California, Merced

“Coral reef health: Genomic approaches to the study of symbiosis, bleaching and disease”

Nancy A. Moran, University of Arizona

“The ecological genomics of symbiotic bacteria in insects”

James M. Tiedje, Michigan State University

“Genomic insight from among close bacterial relatives”

POSTER ABSTRACTS:

Please submit your poster abstract online before Friday, September 28, 2007. Abstract submission guidelines are available at:

<http://www.k-state.edu/ecogen/Posters-2007.htm> . A limited number of submitted poster abstracts will be

selected for oral presentation.

If you have questions, please contact us at (785) 532-3482 or ecogen@k-state.edu. Additional information about this interdisciplinary research initiative is available at www.k-state.edu/ecogen .

DEADLINES:

9/28/07 Poster Abstracts are due

(https://www.dce.k-state.edu/cgi-bin/conf/-eco_proposal.cgi)

9/28/07 Early Registration

(<https://outreach.k-state.edu> <<https://outreach.k-state.edu> >)

10/10/07 Hotel Reservations

(Select “Reserve Hotel” link on www.k-state.edu/ecogen/symp2007.html)

Funding for this symposium is provided by Kansas State University.

Ecological Genomics Institute Project Directors: Dr. Loretta Johnson and Dr. Michael Herman Kansas State University 104 Ackert Hall, Manhattan, KS 66506-4901 (785) 532-3482, www.k-state.edu/ecogen

Doris Merrill, Program Coordinator (785) 532-3482, dmerrill@k-state.edu

dmerrill@ksu.edu

LeidenU Linnaeus300 Oct1-2

Linnaeus 300 - The Future of his Science. An international symposium on October 1 & 2 in Amsterdam highlighting Linnaeus' formative years in Holland and current challenges in all aspects of biodiversity science. For full information, please visit www.knaw.nl (use English version). Registration before 24 September. Lunches are free!

Barbara Gravendeel NHN - Leiden University

“Gravendeel, B. (Barbara)”
<Gravendeel@nhn.leidenuniv.nl>

Luxembourg RelictSpecies Oct18-20

Symposium on Relict Species, 18.-20. Oct. 2007, Luxembourg

Dear Sir or Madam,

we finished the programme now. You can find additional helpful information at our website

www.symposium.lu/relicts (i) The final programme and posters (with most abstracts) are already available (please click the button "programme" and "posters" (ii) To print the programme as a pdf-document please click "circular" (iii) Via "accommodation" you can find some hotels and a youthhostel near the National Museum of Natural History (iv) All participants, their towns and countries of origin are listed under "Participants"; this list is daily updated

For any questions don't hesitate to contact us.

Jan Habel & Marc Meyer

Dr. Jan Christian Habel Musée national d'histoire naturelle Luxembourg 25, rue Münster L-2160 Luxembourg

Tel.: ++352 (0) 46 22 33 405 Fax: ++352 (0) 47 51 52

Jan Christian Habel <janchristianhabel@gmx.de>

Marseilles 11thEvolBiol Sept19-21 2

Dear All,

We are pleased to announce you that the program for the 11th E B M at Marseilles is now available on <http://www.up.univ-mrs.fr/evol-cgr/programme.php> ! (except the mathematic and Evolution session)

Some spots for posters remain available.

We remain at your disposal for any further information.

Best regards,

Axelle Pontarotti

– Axelle Pontarotti Logistical Organisation Committee

EA 3781 Evolution Biologique Université d'Aix Marseille I - case 19 Centre St Charles 3 Place Victor Hugo 13331 Marseille Cedex 3 33491106489 <http://www.up.univ-mrs.fr/evol> We are organizing the 11th Evolutionary Biology Meeting at Marseilles - 19-21 September 2007 <http://www.evolutionary-biology.org> <http://www.up.univ-mrs.fr/evol-cgr/> egee@up.univ-mrs.fr

MoscowStateU CompPhylogenetics MolSyst Nov16-19 Website

Conference: Comp.Phylogenetics.Mol.Systematics.Nov.16-19.2007

16-19 November 2007, Moscow State University, Russia

CALL FOR PAPERS AND POSTERS

The Faculty of Biology of Moscow State University (FB MSU), Belozersky Institute for Physicochemical Biology of MSU (BIPB MSU), Faculty of Bioengineering and Bioinformatics of MSU (FBB MSU) and Kharkevich Institute for Information Transmission Problems of the Russian Academy of Sciences (IITP RAS) organize the international conference "Computational Phylogenetics and Molecular Systematics" (16-19 November 2007, Moscow, Russia).

This conference commemorates the 50 years since the first experimental study on molecular systematics was published in Russia, which marked the onset of contemporary molecular phylogenetics and a number of related disciplines, including molecular biology, evolutionary biology, biochemistry, computer science, and bioinformatics. The conference is aimed at gathering leading scientists from Russia and abroad in computational biology, genomics, theory and application of comparative analysis of genetic blueprints. The conference mission is to provide a stimulating platform for exchange of ideas and experiences, cross-disciplinary interactions, and long-term national and international collaborations. Participation of postgraduate and post-doctoral fellows is encouraged to foster development of the next generation professional network.

The conference scope includes but is not limited to:

• computational analysis of DNA, RNA and protein sequences; • methods and algorithms of phylogenetic analysis; • oriented software development; • parallel and distributed computing in genetic data analysis, datamining; • evolution of genome, regulatory elements and genetic control systems; • dating evolutionary divergences with molecular data; • phylogenetics in hot topics of organismal evolution and systematics, phylogenomics; • applied molecular phylogenetics (barcoding, molecular anthropology, molecular epidemiology, forensic science, etc.).

Further details on the conference are available from

the web: <http://agora.guru.ru/cpms> . Important deadlines:

Registration: 1st September 2007 Conference fee payment: 15th September 2007 Abstract submission: 1st September 2007 (section presentations), 15th September 2007 (poster presentations).

Leonid Rusin, PhD

Secretary Scientific CPMS 2007

Lab for mathematic methods and models in bioinformatics
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WEB www.iitp.ru CPMS 2007 <cpms@iitp.ru>

NHM London EvolResNetwork Sep14

LERN 5th Annual Conference

Friday 14th September 2007 Flett Lecture Theatre Natural History Museum, London

The schedule for the London Evolutionary Research Network (LERN) Annual Conference has been finalised. The day's line up is diverse, covering many aspects of evolutionary research, and highlights the diversity of research carried out by young researchers in London and its environs.

The conference is FREE and everyone is welcome!

There is still time to register for attendance, or to submit an abstract for a poster. Deadline for free registration is Sunday 9th September 2007. E-mail Laura Fortunato (l.fortunato@ucl.ac.uk) or Amber Teacher (amber.teacher@ioz.ac.uk) to register or to submit a poster abstract.

Visit <http://londonevolution.net> for information about the day and on how to get to the Natural History Museum.

– Laura Fortunato Department of Anthropology University College London 14 Taviton Street London WC1H 0BW, UK

email: l.fortunato@ucl.ac.uk tel: +44 (0) 20 7679 5463

<http://www.cecd.ucl.ac.uk> <http://www.ucl.ac.uk/heeg>
<http://londonevolution.net> l.fortunato@ucl.ac.uk
l.fortunato@ucl.ac.uk

Orlando MarinePopulations Mar2-7

Dear Colleagues,

We would like to invite you to the special session on population connectivity co-chaired by Iliana Baums and Claire Paris to be held at the 2008 Ocean Sciences Meeting in Orlando, Florida from March 2-7 (<http://www.aslo.org/meetings/orlando2008/>).

The central theme of our session is Predicting the impact of climate change on marine population connectivity: Marine species often can be described as metapopulations with varying levels of subpopulation connectivity across time and space. Evolutionary studies aim at exploring long-term processes such as, speciation, biogeography, historical exchanges events, and population persistence (Hanski, 1989). Low dispersal rates are sufficient to shift the metapopulation distribution pattern over time by turnover of local populations: some go extinct and becoming re-established elsewhere (Levins, 1969). Ecological studies focus on the larval fluxes required to sustain a population (e.g. design of MPAs to protect a fished stock, explanation of recent or current genetic population structure). Such demographic connectivity usually implies that a substantial number of individuals are exchanged each generation. Dispersal at all scales is influenced by the physical and chemical environment propagules encounter due in part to behavioral response of propagules to their dispersal environment. Increasing sea-surface temperatures, changing water chemistry and shifts in marine community structure are likely to influence dispersal patterns. This session invites papers that integrate multiple disciplines to understand the influence of climate change on the dispersal potential and its consequence on connectivity among marine populations.

Scientific Theme of the Conference: Water connects and binds us all. It moves from the top of the highest mountain to the depths of the deepest oceans. As limnologists, oceanographers, and educators, water is the lifeblood of our endeavors. Now, as never before, we recognize the interconnections between land and sea, and at the 2008 bi-annual Ocean Sciences Meeting we are going to recognize the important nature of these connections.

The Abstract Submission deadline is 2 October 2007
 Feel free to contact us with questions. We hope to see you there!

Best Wishes,

Claire and Iliana (cparis@rsmas.miami.edu, Baums@psu.edu)

Claire B. Paris-Limouzy PhD Rosenstiel School of Marine and Atmospheric Sciences 305 421 4978

ibb3@psu.edu ibb3@psu.edu

Tremont SEPEEG Sep21-23 2

Greetings all,

We want to encourage you again to register for this year's Southeastern Ecology, Genetics, Etc. meeting (21-23 Sep). The venue is fantastic (the Great Smoky Mountains Institute at Tremont in Tennessee) and the meeting is always entertaining and educational. This is a great opportunity, especially for students, to share research, see what other labs are up to, and meet important people (and salamanders). Please visit our web site for more details and online registration:

<http://web.utk.edu/~bfitzpa1/seepage.html> -Ben

Ben Fitzpatrick Ecology and Evolutionary Biology University of Tennessee Knoxville, TN 37996-1610 (865) 974-9734 benfitz@utk.edu

Ben Fitzpatrick <benfitz@utk.edu>

Uppsala Paleontology Dec16-19

The 51st Annual Meeting of the Palaeontological Association of the UK is being held this year in Uppsala, Sweden, 16th-19th December, to coincide with the 300th anniversary of the birth of Linnaeus. Talks and posters are invited on all aspects of palaeontology, and related topics, such as broadly relevant evolutionary biology. To download the circulars, for more information, and to register and submit abstracts, please follow the links at www.palass.org. Please note that the deadline for abstract submission and early registration is 7th September.

Graham Budd Local Secretary graham.budd@pal.uu.se

ZooSociety London SexDifferences Dec6-7

ASAB 2007 Winter Meeting

December 6th and 7th 2007, Zoological Society Meeting Rooms, London Zoo, London UK

The theme of the 2007 Winter ASAB conference will be "Sex Differences", and the aim will be to address this issue at all of the four Tinbergian levels: ontogeny, evolution, function and mechanism. The plenary speakers include Liisa Galea, University of British Columbia and Stephen Goodwin, University of Glasgow. The Tinbergen Lecture will be given on Friday, December 7th, by Mark Kirkpatrick, University of Texas (Austin). Abstracts (no longer than 150 words) for talks are welcome and should be submitted to Sue Healy (s.healy@ed.ac.uk) by October 12th.

There is no registration for this meeting although non-ASAB members will be charged a per day rate of £10. Admission to the Zoo comes free as part of the conference attendance and there will be a wine reception on the evening of the 6th, hosted by Wisepress.

-

Dr David M Shuker NERC Advanced Research Fellow Institute of Evolutionary Biology School of Biological Sciences University of Edinburgh West Mains Road Edinburgh EH9 3JT U.K. Email: david.shuker@ed.ac.uk <http://www.biology.ed.ac.uk/-research/groups/shuker> Tel: +44 131 650 5449 Fax: +44 131 650 6564

david.shuker@ed.ac.uk david.shuker@ed.ac.uk

Zurich SexualReproduction UpdatedProgram Sep14-15

Zurich.SexualReproduction.UpdatedProgram.Sep14-15

EU Marie Curie Research and Training Network SexA-seX organizes a two-day conference on

PARADOX OF SEXUAL REPRODUCTION: THEORY AND DATA

The conference focuses on the empirical approaches to the test hypotheses for maintenance of sex and how the recent data interact with the theory. Members of the SexAseX network will present the results of the network project.

14.07.2007

08:00-08:15 coffee 08:15-08:30 Koen Martens-Welcome and introduction 08:30-09:15 Sebastian Bonhoeffer 09:15-10:00 Arjan de Visser 10:00-10:30 coffee 10:30-10:50 Jochen Vandekerckhove - Geographic parthenogenesis in *Eucypris virens* (Ostracoda): new insights from field observations and laboratory experiments 10:50-11:10 Maria Joao Martins - Phenological and fitness differentiation in sexual and asexual lineages in a freshwater ostracod. 11:10-11:30 Olivier Schmit - Spatial segregation between sexual and parthenogenetic populations of *Eucypris virens* (Crustacea, Ostracoda) in a temporary lake 11:30-12:15 Hinrich Schulenburg - Sex in *C. elegans* 12:15-13:15 lunch 13:15-14:00 Ellen Decaestecker - 'Sexual versus asexual reproduction in *Daphnia*.' 14:00-14:45 Tom Little - Genetic Diversity in Asexual Ostracodes 14:45-15:15 coffee 15:15-15:35 Sofia Adolfsson - Exploring reproductive polymorphism, ploidy differences and genetic variability in European *E. virens* ostracods 15:35-15:55 Andrew Park - Ploidy, parasites and deleterious mutations: interactions influencing the evolutionary maintenance of sex

15:55-16:15 Ruza Bruvo - Discovering asex in *Eucypris virens*: genomic approaches 16:15-17:00 Bas Ibelings 17:00-18:00 Poster session

15.07.2007

08:00-08:30 coffee 08:30-09:15 Nico Michiels - Genetic recombination in hermaphrodites versus gonochorists: does it differ and does it matter? 09:15-10:00 Thomas D'Souza - Getting the best of both worlds: Evolutionary consequences of occasional sex in parthenogenetic flatworms 10:00-10:30 coffee 10:30-10:50 Dunja Lamatch - Microsatellite flanking region variability in *Eucypris virens* 10:50-11:10 Saskia Bode - Phylogeny and phylogeography of European sexual and asexual lineages of *Eucypris virens* 11:10-11:30 Radka Symanova 11:30-12:15 Christoph Vorburger - Evolutionary ecology of aphid resistance against parasitoids 12:15-13:15 lunch

The seminar takes place in EAWAG Dübendorf (close to Zürich, Switzerland). For exact location, visit Eawag homepage http://www.eawag.ch/kuerze/-standorte/anreise_dd/index_EN If you are interested in participating, please send an email to Christiane Rapin (christiane.rapin@eawag.ch). Registered participants are welcome to present a poster, in that case please send the title of your poster with your registration. Participation is free.

Jukka.Jokela@eawag.ch

Sofia.Adolfsson@eawag.ch Sofia.Adolfsson@eawag.ch

GradStudentPositions

ColoradoStateU 4 InvasivePlantEvol	9	UFribourg SexualReproduction	13
DalhousieU GeospatialPhylogeny	9	UHull BeetleEvol	14
ETH Zurich PlantMatingSystemEvol	10	UHull HumanPopGenet	15
ETH Zurich PlantPathogenEvol	10	ULeicester InsectImmuneSelection	15
Madrid AvianBehaviouralEvol	11	UNevada EnvGenomics	16
MurdochU AncientDNA	11	UOklahoma EvolBiol	73
SZN Naples MicroEvol	12	UTuebingen EvolGenetics	17
StateUNewYork Albany InsectPhylogenetics	12		
UDijonFR ParasitoBehavNeuro	13		

ColoradoStateU 4 InvasivePlantEvol

The Department of Bioagricultural Sciences and Pest Management at Colorado State University announces the availability of four PhD assistantships in invasive plant ecology and management. These positions provide a full stipend and research support for the pursuit of a PhD degree within the Department's graduate program or within the University's interdisciplinary Graduate Degree Program in Ecology.

The research topics for these assistantships are: - Precision mapping, modeling, monitoring, and integrated management of key invasive plants on riparian and upland sites in the Colorado front range (with advisors Phil Westra (pwestra@lamar.colostate.edu) and Tom Stohlgren (toms@NREL.colostate.edu))

- Adaptive management of secondary invasions following tamarisk removal (With advisor Scott Nisson (snissen@lamar.colostate.edu) and collaborators Phil Westra, Anna Sher, and Ken Lair).

- Resource-based variation in weed tolerance to herbivory and biological control efficacy (With advisor Andrew Norton (apnorton@lamar.colostate.edu)).

- Comparative invasion ecology and management of black henbane (*Hyoscyamus niger*) (With advisor Ruth Hufbauer (hufbauer@lamar.colostate.edu)).

Join the outstanding ecology, entomology and weed science programs at Colorado State University! See us at: <http://www.colostate.edu/Depts/bspm/> <http://www.ecology.colostate.edu/> <http://www.NREL.colostate.edu/> For more information and application instructions, please email the contact person listed for each project. Successful applicants will be expected to begin their degree program in 2008. If you are interested, contact the relevant person as soon as possible.

CSU is an EO/AA employer.

Ruth A. Hufbauer Associate Professor <http://lamar.colostate.edu/~hufbauer/> Department of Bioagricultural Sciences and Pest Management Colorado State University 1177 Campus Mail Fort Collins, CO 80523-1177 USA

office: C147 Plant Sciences (970) 491-6945 lab: E113/115 Plant Sciences (970) 491-5984 fax: (970) 491-3862 email: hufbauer@lamar.colostate.edu

hufbauer@lamar.colostate.edu

DalhousieU GeospatialPhylogeny

PH.D. POSITION - GEOSPATIAL ANALYSIS OF PHYLOGENETIC TREES AND NETWORKS

A Bioinformatics Ph.D. position is available in the research group of Dr. Robert Beiko and Dr. Christian Blouin in the Faculty of Computer Science, Dalhousie University. Very large sets of genetic data are being collected from a diverse range of sites around the world; phylogenetic analyses of these data sets will give us a deeper understanding of the evolutionary processes that shape the biosphere. The mission of the Ph.D. student will first be to reconstruct phylogenetic trees and networks and bind them to appropriate map coordinates. The student will then develop algorithms to reconcile the evolutionary relationships among sequences with the spatial and temporal relationships among sample sites.

The ideal candidate will have an undergraduate Honours or a Master's degree in Computer Science, with experience in algorithm development and analysis and some familiarity with graphics. Experience with phylogenetic trees and networks is not necessary, and can be learned early in the project. Applicants with a relevant background in the biosciences or statistics could also undertake this project via the Dalhousie Interdisciplinary Ph.D. program.

This position is funded by the Tula Foundation as part of the Dalhousie Centre for Comparative Genomics and Evolutionary Bioinformatics (CGEB). The student stipend will be C\$25,000 per year, with opportunities for conference travel. This project is part of a larger geospatial initiative that will involve several other students and technical personnel. The student will also interact with other members of the CGEB, which spans four departments (Computer Science, Mathematics and Statistics, Biology, and Biochemistry and Molecular Biology).

We would like to fill this position as soon as possible, with a start date of either January or May 2008 and the opportunity for a bridging position before the formal start of the Ph.D. There is no formal application deadline, but the first evaluations of applicants will be carried out by mid-September. Interested applicants should contact Robert Beiko directly (email: [beiko\[at\]cs.dal.ca](mailto:beiko[at]cs.dal.ca)) with a curriculum vitae showing relevant experience, an academic transcript (unofficial

is sufficient at this stage) and a statement of research interests (maximum 1 page).

Rules for Ph.D. applicants to Computer Science: <http://www.cs.dal.ca/graduate/index.shtml> Dalhousie Interdisciplinary Ph.D. program: <http://www.dalgrad.dal.ca/interdisciplinary/> beiko@cs.dal.ca beiko@cs.dal.ca

ETH Zurich PlantMatingSystemEvol

PhD position in Evolutionary Ecology / Plant Mating System Evolution

A 3-year graduate/PhD position is available at the Institute of Integrative Biology, ETH Zürich, to work on plant mating system evolution and conservation genetics. The project focuses on forces that influence adaptation to a changing environment, and more generally how the genetic architecture of morphological and life history traits is determined. Our specific focus is on the mating system and population size in *Arabidopsis lyrata*.

Project description: Studies of plant mating systems have long considered the evolutionary advantages and disadvantages of inbreeding and outbreeding. This project reverses the chain of causation to ask how the mating system affects the genetic composition of a population. The research involves a combination of field surveys of realized mating systems in natural populations and assessments of genetic variance components for a set of ecologically relevant traits. The work includes crossing experiments, molecular marker techniques and quantitative genetics analysis.

The Institute of Integrative Biology consists of a dozen groups working in diverse fields of Ecology and Evolution. For more information, contact Yvonne Willi (yvonne.willi@agrl.ethz.ch) or see <http://www.ibz.ethz.ch/> and <http://www.ibz.ethz.ch/> Applicants must have a university degree in the natural sciences which allows entering a PhD program, and very good organizational, analytical and writing skills. Motivated applicants should submit a one-page letter that summarizes interests and relevant experience, a current CV, copies of undergraduate and masters/diploma transcripts, and contact information for 3 references (all as PDFs) to: yvonne.willi@agrl.ethz.ch <<mailto:ulrike.rosenberger@agrl.ethz.ch>>

Yearly salary: CHF 34.000 - 40.000.

Closing date: Applications are welcome until the position is filled. Earliest evaluation of applications is on September 20, 2007

Yvonne Willi <yvonne.willi@agrl.ethz.ch>

ETH Zurich PlantPathogenEvol

PhD position in Plant Pathogen Evolution

A 3-year graduate/PhD position is available at the Institute of Integrative Biology, ETH Zürich, to work on the evolution of the barley scald pathogen *Rhynchosporium secalis*. Like many agriculturally important pathogens, our study organism has a global distribution with recent founder populations on some continents. The project seeks to understand the relative importance of selection and demographic parameters on patterns of genetic variation on a global scale. In particular, we try to understand how the population expansion of a pathogen along ecological clines has affected the genetics of virulence and resistance traits. The work includes in vitro and in vivo experiments and quantitative genetics analysis.

The Institute of Integrative Biology consists of a dozen groups working in diverse fields of Ecology and Evolution. People in the group of Plant Pathology have their research focus on population genetics in plants and fungal pathogens, QTL analysis of virulence and resistance traits, host-parasite co-evolution and plant protection. For more information, contact Bruce McDonald (bruce.mcdonald@agrl.ethz.ch) or see <http://www.ibz.ethz.ch/> and <http://www.path.ethz.ch/> The applicant is expected to have a University degree in Natural Sciences which allows entering a PhD program, and very good organizational, analytical and writing skills. Motivated applicants should submit a 1 page letter that summarizes interests and relevant experience, CV including undergraduate and masters/diploma transcripts, and contact information for 3 references (all as PDFs) to: ulrike.rosenberger@agrl.ethz.ch <<mailto:ulrike.rosenberger@agrl.ethz.ch>>

Yearly salary: CHF 34.000 - 40.000.

Closing date: Applications are welcome until the position is filled. Earliest evaluation of applications is on September 20, 2007

yvonne.willi@agrl.ethz.ch

Madrid AvianBehaviouralEvol

Museo Nacional de Ciencias Naturales (CSIC). Madrid, Spain.

An open call for PhD candidates in CSIC Spanish institutions will open shortly at:

http://www.csic.es/postgrado/-info_tesis.doc_jae_en.htm Within that framework, I'm looking for a candidate to take part in the following project:

LONG TERM FITNESS EFFECTS OF YOLK ANDROGEN DEPOSITION IN THE SPOTLESS STARLING This project aims at determining the long term effects of a maternal effect, yolk androgen deposition, in a wild population of spotless starlings (*Sturnus unicolor*), using existing long term pedigree data and modern quantitative genetics models. Experiments (cross-fostering experiments and egg-injections) will be performed to test whether yolk androgen deposition benefits mothers or offspring, and to determine whether females manipulate male care and offspring solicitation. The student should be prepared to work hard in the field four months a year and to learn and apply methods of quantitative genetics. A good English and a firm statistical background are mandatory.

The selection process is two-fold, firstly I will select the best candidate for the project (end of August), secondly he/she will apply directly to the CSIC (September) and enter an open competition with other students from a wide range of disciplines. Please see website for some preliminary details now, there should be more information available shortly. Please note that a moderate degree of bureaucracy is required to enter the open competition, but please do not feel put off by it! I am happy to help the best candidate to get that paper work ready.

Please send your CV to my email address, including your average marks during your BSc/DEA/... and some information on the scoring system (good marks are necessary for the open competition). Please include in your mail your reasons to apply, and your willingness to live in Spain for four years.

Best wishes,

Diego Gil dgil@mncn.csic.es

Diego Gil Departamento de Ecología Evolutiva Museo

Nacional de Ciencias Naturales (CSIC) José Gutiérrez Abascal, 2 28006 Madrid Spain

Tel: 00 34 91 411 13 28, ext. 1285 Fax: 00 34 91 564 50 78 email: dgil@mncn.csic.es

Diego Gil <dgil@mncn.csic.es>

MurdochU AncientDNA

PhD projects on Ancient DNA and Wildlife genetics - Murdoch Uni, Australia

The ancient DNA & Wildlife Genetics labs are looking to fill a number of positions for suitably qualified PhD candidates to work on ancient DNA, population genetics and wildlife forensic projects. Among other things, the projects aim to determine the size, and structure of natural populations using molecular markers. The projects will involve the application of population genetic analyses to modern and ancient samples to help address questions of evolution, biodiversity, conservation and wildlife protection.

Project 1: Molecular ecology and population dynamics of large feral pests: camels in the arid and semiarid rangelands of Australia. One-humped camels were first introduced to Australia as a beast of burden. When the motor vehicle replaced camels, feral populations became established through escapees and deliberate releases. Weighing 500kg+, an estimated 500,000+ individuals and the population doubling every seven years, they are increasingly an environmental menace. This project will allow us to better understand the dynamics of feral camel populations. Strategic decisions can then be developed on how and where camels should be managed to minimise impacts on pastoral enterprises, conservation values and remote indigenous communities.

Project 2: Ancient DNA as a tool to study past biodiversity in south-west Western Australia. The South-west corner of Australia is one of only 34 regions identified internationally as a biodiversity hotspot V it has a fascinating and diverse biota. This ARC funded project will investigate the evolutionary history of this region using Ancient DNA isolated from museum specimens sub-fossil remains and cave sediments. DNA has been isolated from macropod remains dating back 18,000 years demonstrating the potential to investigate both extinctions and how patterns of diversity have changed over time.

Project 3: Wildlife protection, enforcement and conservation of pythons in Western Australia. Pythons are allowed to be legally for the pet trade in Western Australia. However, many Australian reptiles are still highly valued in the illegal wildlife trade, with many species undergoing pressure from habitat modification and poaching. This project aims to (i) characterise microsatellite markers for pythons and examine their potential for cross species amplification in other threatened species of snakes, (ii) validate the markers in discriminating the identify individuals and to define management units, the species population demographics and characterise dispersal, (iii) test hypothesis of mate fidelity and return-rate and (iv) develop molecular tests for forensics applications.

Project 4: Ancient DNA from middens and coprolites. The middens of the extinct Stick nest rat (*Leporillus*) are time capsules into past environments. The middens do not just include rat and plant remains because *Leporillus* scavenged material from throughout their habitat; nests contain bone, eggshell, hair, faecal matter, insects etc. Preliminary data show these middens are excellent environments for DNA preservation dating back thousands of years. This project will involve using DNA to profile the composition of past environments. The project is funded by an ARC discovery grant.

Requirements: We have substantial funding for these projects and seek highly motivated candidate(s) with experience in the application and analysis of molecular markers, combined with a interest in evolutionary biology, population genetics and/or wildlife ecology to apply for the position(s). Before applying please contact Peter Spencer (P.Spencer@murdoch.edu.au) and Mike Bunce (M.Bunce@murdoch.edu.au). Include in your initial letter a detailed CV. You should possess a high grade honours (IA or upper IIA) or Masters degree and be willing to apply for a Postgraduate Award (either APA or Murdoch Postgraduate Award). Applications are due on 31st of October, 2007 (<http://www.research.murdoch.edu.au/-gradcentre/scholar.html>). Further information can be obtained online from the WGL (<http://wwwstaff.murdoch.edu.au/~pspencer/>) or ancient DNA lab pages (<http://wwwstaff.murdoch.edu.au/~mbunce/>).

Mike Bunce <M.Bunce@murdoch.edu.au>

SZN Naples MicroEvol

Dear All,

Within the international PhD programme of the Stazione Zoologica in Naples a series of Open University PhD fellowships are available to obtain research experience in an interdisciplinary setting. One of these projects, "Microevolutionary events and speciation in planktonic diatoms" is supervised by me in collaboration with my colleague Gabriele Procaccini from the benthic Ecology Lab in Ischia. Details can be found at our website www.szn.it -> New on Site -> Call for application PhD Program OU-SZN 2007.

Applications are invited from suitably qualified post-graduate candidates. The closing date is 4 September 2007.

Dr. Wiebe H.C.F. Kooistra Stazione Zoologica Villa Comunale 80121 Naples Italy

Tel: +390815833271 Fax: +390817641355 E-mail: kooistra@szn.it

Alberto Amato <amato@szn.it>

StateUNewYork Albany InsectPhylogenetics

Graduate Student Position in Insect Phylogenetics

We seek to fill 1 graduate student position to work on a large-scale, worldwide phylogenetic investigation of spittlebugs (Hemiptera: Cercopoidea). A Ph.d. level student with entomological experience is preferred, but all applications considered. The position will be available starting in approximately October, 2007; applications accepted until the position is filled.

The student's expected role in the project will be: 1. to generate DNA nucleotide sequence data from multiple gene sources for a large, worldwide taxonomic sample of spittlebugs 2. to work with project collaborators on the generation of morphological data for the same taxa 3. to generate DNA sequence data from bacterial endosymbionts of spittlebugs 4. to participate in domestic and international collecting trips (typically, 2-3 2-week trips per year) 5. to participate in data analysis, interpretation of results, and preparation of manuscripts for publication 6. to present findings at scientific conferences

Graduate students in my lab typically complete their academic programs in the Department of Biological Sciences at the University at Albany, SUNY (although I

will consider alternative arrangements). Unfortunately, because the grant is administered through the NY State government, I am limited to accepting only students who are legally employable in the US (i.e., US citizens or international students who already hold a valid work-visa). Minority students and female students are encouraged to apply.

Contact info:

Jason R. Cryan, Ph.D. Director, Laboratory for Conservation and Evolutionary Genetics New York State Museum 3140 Cultural Education Center Albany, NY 12230 Phone: (518) 486-2008 E-Mail: jcryan@mail.nysed.gov FAX: 518-486-2034 Homepage: www.nysm.nysed.gov/lceg/lcegcryan.html Lab Website: www.nysm.nysed.gov/lceg/

JCRYAN@MAIL.NYSED.GOV
JCRYAN@MAIL.NYSED.GOV

UDijonFR ParasitoBehavNeuro

Ph.D. Position, Universite de Bourgogne (Dijon, France), UMR CNRS Biogeosciences, Evolutionary Ecology team - supervisors: Pr Frank Cezilly, Ass. Pr. Marie-Jeanne Perrot-Minnot (HDR)

Evolutionary and functional approaches to the role of serotonin in parasitic manipulation of phototactism and olfaction-based antipredator behaviours

A PhD position is available to work on parasitic manipulation using acanthocephalan parasites and their freshwater crustaceans intermediate hosts as a model system. Our previous work has shown that some acanthocephalan parasites alter the reaction to light of their amphipod intermediate hosts and their behavioural responses to chemical cues from predators used as final host, and that these behavioural changes do increase the parasites trophic transmission to their final hosts (fish). Recently, we have reported on the involvement of a highly conserved neuromodulator, the serotonin, in parasite-induced altered phototactism. The proposed framework for this PhD study is to further investigate the role of serotonin in altered phototactism and anti-predator defense in various crustacean host - acanthocephalan parasite associations, by combining behavioural assays, etho-pharmacology, immunocytochemistry and proteomics. The functional link between brain serotonergic activity and altered photoactism will be established, in particular by investigating which 5-

HT receptors are involved and whether these signalling pathways are altered by the parasite. The role of serotonin in olfactory response of infected and uninfected hosts to predators will also be addressed. In parallel, excretion - secretion products from infectious parasites will be screened for proteins potentially involved in these changes of serotonergic activity using proteomic tools. Our questions ultimately relate to the adaptive significance of parasitic manipulation, by unravelling the complexity of the underlying mechanisms and investigating their degree of evolutionary convergence in different amphipod - acanthocephalan systems.

The ideal candidate has an interest in addressing proximate and ultimate questions in evolutionary parasitology, by combining etho-pharmacology, biochemistry, neurophysiology and behavioural ecology. He or she has a background in any of the relevant fields - evolutionary parasitology, behavioural ecology, or invertebrate neurosciences - , and an MSc. degree is required. The salary comes as a grant from the french ministry of higher education and research (around 1200 euros/month). The duration of the PhD is 3 years. Preferred starting date 1st November 2007 or thereafter.

Please send applications, with a full CV, a short description of research experience and interest in this position, and names of referees to Pr Frank Cezilly (fcezill@u-bourgogne.fr) and to Dr Marie-Jeanne Perrot-Minnot (mjperrot@u-bourgogne.fr) by the 7th of september. Screening of applications will end on the 13th of september. For more information, you may check our web pages (www.u-bourgogne.fr/BIOGEOSCIENCE/-cezilly and www.u-bourgogne.fr/BIOGEOSCIENCE/-perrot).

Marie-Jeanne Perrot-Minnot

Equipe Ecologie Evolutive UMR CNRS 5561 Biogeosciences Université de Bourgogne 6, Blvd Gabriel 21000 Dijon, France tel : (33) 3 80 39 63 40 / fax : 62 31 www.u-bourgogne.fr/BIOGEOSCIENCE/-perrot Marie-Jeanne Perrot-Minnot-Cezilly <Marie-Jeanne.Perrot@u-bourgogne.fr>

UFribourg SexualReproduction

At the University of Fribourg, Switzerland

a PhD position in evolutionary genetics of sexual reproduction

is available in the newly established research group of Christoph Haag. I am looking for a highly motivated candidate with interests in the fields of evolutionary biology, population genetics and/or molecular evolution. The PhD projects is concerned with the evolutionary genetics of sexual reproduction in *Daphnia*. Details of the project will be worked out with the candidate, to accommodate interests and strength.

The starting date is negotiable (any time from November 2007 onwards). Funding from the University of Fribourg is for three years (annual salary is ca. CHF 35000). Knowledge of French or German is helpful in every day life, but the working language in the group is English. A Diploma or Masters degree (or equivalent) in biology or related subject is necessary for admission. Fribourg is a lively town with over a quarter of the population being students.

To apply, please send an e-mail with the application materials in a single pdf file to Christoph Haag. Application materials should include a CV, a list of publications, and a short (less than one page) statement of research interests. Please give names and email addresses of two persons who are willing to write a letter of recommendation. Applications received before 10 September 2007 will be given full consideration. Interviews will take place in late September or October.

Further information and address for application: Dr. Christoph Haag, E-mail: christoph.haag@ed.ac.uk, Tel: +44 131 6505543 Web: http://www.haagliautard.net/christoph_haag.htm For more information about the Ecology and Evolution in Fribourg see <http://www.unifr.ch/biol/ecology/> –

Christoph Haag University of Edinburgh Institute of Evolutionary Biology Ashworth Lab. 2 West Mains Rd. Edinburgh EH9 3JT, UK

Phone: +44 (0)131-650-5543 Fax: +44 (0)131-650-6564

E-mail: christoph.haag@ed.ac.uk http://www.haagliautard.net/christoph_haag.htm

christoph.haag@ed.ac.uk christoph.haag@ed.ac.uk

UHull BeetleEvol

PhD research studentship on the “Evolutionary genetics of an invading species, the harlequin ladybird

Supervised by Dr Lori Lawson Handley Molecular Ecology and Evolution Group, School of Biological Sciences,

University of Hull, UK

A fully funded PhD studentship is available to study the evolutionary genetics of the harlequin ladybird, *Harmonia axyridis*, a species that is currently invading the British Isles and posing a potentially devastating risk to native ladybirds. The pace of the invasion and the rigorous monitoring of the harlequin’s spread since its first detection in September 2004, provide an opportunity for a unique case study that will contribute significantly to our understanding of the evolutionary genetics of species invasions. This project will compare patterns of genetic variation in UK harlequins to introduced populations in continental Europe and native populations in Asia, using a spatially explicit landscape genetics framework, in order to 1) investigate the number of founders and identify potential sources of invasion 2) characterize spatial and temporal patterns of genetic structure during the establishment and spread of the species in comparison to its native range and 3) compare the population structure of the invading harlequin to the native ladybird populations most at risk from competition and predation to better understand the reasons for the vulnerability of the recipient species

Applicants should have a keen interest in evolutionary/ecological genetics and hold at least an upper second class honours degree in the life sciences. The project will entail field, lab and computer based work, including sample collection, DNA analyses, statistical genetics and GIS. Enthusiasm for these areas, but not necessarily prior experience, is essential.

Informal enquiries are strongly encouraged. Please feel free to contact Lori Lawson Handley for more information on the project (ljl27@cam.ac.uk, 01223 760346). The project is in collaboration with Prof. M. Majerus and Remy Ware at the University of Cambridge. See the website of the Harlequin Ladybird Survey, <http://www.harlequin-survey.org/> for more background info on the harlequin invasion.

CLOSING DATE FOR APPLICATIONS: 3RD SEPTEMBER 2007

Interviews will be held in Hull during the second week of September and the start date is no later than 1st January 2008. The stipend is approximately £12,600 pa

Dr Lori Lawson Handley Department of Genetics, University of Cambridge, Downing Street, Cambridge CB2 3EH U.K.

Email: ljl27@cam.ac.uk Phone +44 (0)1223 760346 Group URL: <http://www.gen.cam.ac.uk/newdept/research/labs/balloux.htm> ljl27@cam.ac.uk

ljl27@cam.ac.uk

UHull HumanPopGenet

PhD studentship in Geographically explicit human population genetics

Supervisor: Dr Lori Lawson Handley Molecular Ecology and Evolution Group, School of Biological Sciences, University of Hull, UK

A fully funded PhD studentship is available to study geographical human population genetics, at the University of Hull. Recent analyses of human populations have demonstrated that genetic variation is clinal - in other words genetic variation gradually decreases with increasing geographic distance from East Africa. This is compatible with a recent African origin of modern humans, and a gradual loss of diversity as we colonised the world. Such clines demonstrate that most of the variation in human populations can be explained by geography, but the role of geographic barriers such as high mountain ranges, large bodies of water and deserts in shaping human genetic variation are still poorly understood. They are also potentially useful as null models to allow investigation of genomic regions under selection, which is an area of great interest in population genetics. The general aims of this PhD project will therefore be 1) to investigate the influence of geographic and climatic variables on patterns of human genetic variation on more regional scales, and 2) to use this approach to investigate regions of the genome under natural selection. For background reading relating to this please see: Lawson Handley et al. (2007) *Going the distance: human population genetics in a clinal world*. Trends in Genetics (available from ljl27@cam.ac.uk or "Articles in Press" section of TIG website). Applicants should have a keen interest in evolutionary/population genetics and hold at least an upper second class honours degree in the life sciences. The project will entail lab and computer based work, including DNA analyses, statistical genetics and GIS. Enthusiasm for these areas, but not necessarily prior experience, is essential.

Informal enquiries are strongly encouraged. Please feel free to contact Lori Lawson Handley for more information on the project (ljl27@cam.ac.uk, 01223 760346).

CLOSING DATE 3RD SEPTEMBER 2007

Interviews will be held in Hull during the second week of September and the start date is no later than 1st

January 2008. The annual stipend is approx £12,600

Dr Lori Lawson Handley Department of Genetics, University of Cambridge, Downing Street, Cambridge CB2 3EH U.K.

Email: ljl27@cam.ac.uk Phone +44 (0)1223 760346 Group URL: <http://www.gen.cam.ac.uk/newdept/research/labs/balloux.htm> ljl27@cam.ac.uk
ljl27@cam.ac.uk

ULeicester InsectImmuneSelection

BES funded PhD (3 years) at the University of Leicester, U.K.

Parasite driven selection of the insect immune genome. Supervisor: Dr. E.B. Mallon <http://www.le.ac.uk/bl/-ebm3/homepage.html> Large numbers of studies have looked at vertebrate immune variability in the wild (e.g. MHC). This work has been important in understanding much of vertebrate intraspecific ecology. Very little work has been carried out in invertebrates. However it is known that resistance for various parasites is highly variable in invertebrates and that variation is heritable. Vertebrate immune variability is thought to arise due to selection pressure of parasites, more specifically the entire parasite fauna that the animal will be exposed to. Is this also the case with invertebrates?

The aim of this PhD is to discover if parasite driven selection plays as important a role in invertebrate ecological immunity as it does in vertebrates. We will use the bumblebee, *Bombus terrestris*, as our insect host. The student will collect large samples of bumblebees from different populations throughout the U.K. He/She will survey all the parasites found and produce a parasite diversity index for each population. Our lab has a number of candidate genes used in bumblebee immunity. The student will discover the variation in each population for each of these genes. If parasites are a selectional pressure on these immune genes, we would expect that populations with diverse parasite faunas have the most variable immune genome.

Candidates must hold, or expect to obtain, a Master's degree in a relevant subject. Note that eligibility is restricted to UK/EU nationals.

To apply please send, by email if possible, a detailed CV with names and contact details (email and address) of two academic referees to:- Dr. Eamonn Mallon, Department of Biology, University of Leicester, Leicester, LE1

7RH; email ebm3@le.ac.uk <lh116@le.ac.uk> Closing date for applications: October 1st, 2007. The start date will be February 2008

– Dr. Eamonn Mallon Room 221 Department of Biology University of Leicester LE1 7RH Tel: 0116 2523488 Fax: 0116 2523330

ebm3@leicester.ac.uk

UNevada EnvGenomics

Ph.D. Graduate Assistantships, Environmental Genomics

University of Arkansas and University of Nevada, Las Vegas

Two NSF-funded graduate research assistantships are anticipated to support Ph.D. candidates interested in functional genomics of adaptation. The project involves laboratory and field experiments designed to discover patterns of gene expression in populations of cactophilic *Drosophila mojavensis* exposed to different host plants in stressful and non-stressful thermal regimes. Our general goals are to uncover whole-genome patterns of gene expression in populations exposed to natural abiotic and biotic stress. Ultimately, we wish to pinpoint clusters of functionally interacting genes expressed throughout the life cycle in different environments, and predict limits of phenotypic plasticity and adaptation, particularly in response to stressful environments and long-term global climate change.

Laboratory experiments will involve DNA microarrays to study gene expression changes due to different host cacti and temperature stresses, as well as differences in epicuticular hydrocarbons. Field-related work will include multiple field trips to Mexico to monitor wild flies, assess demography of wild populations, and analyze cuticular hydrocarbon and RNA profiles. The positions are part of a collaborative project involving the Univ. of Arkansas, Fayetteville, and the Univ. of Nevada, Las Vegas. One research assistantship will be available at each institution.

Applicants must gain admission to the Ph.D. program in the Department of Biological Sciences at the University of Arkansas or the School of Life Sciences at UNLV. Application information is available at <http://biology.uark.edu/1251.htm> and <http://biology.uark.edu/1251.htm> prospective.html. Stipends start at \$22.8K/12 months; tuition and benefits are

also covered. Supplemental funding is available on a competitive basis for applicants qualifying for Doctoral Fellowships at the Univ. of Arkansas (<http://biology.uark.edu/1255.htm>). These positions are expected to begin January 2008 (spring semester). The deadline for spring semester applications is November 15, 2007. To apply, please contact us for information and assistance.

William J. Etges Department of Biological Sciences University of Arkansas Fayetteville, AR 72701 USA 479-575-6358 wetges@uark.edu <http://comp.uark.edu/~wetges/wetges.html> Allen G. Gibbs School of Life Sciences University of Nevada Las Vegas NV 89154 USA 702-895-3203 allen.gibbs@unlv.edu sols.unlv.edu/faculty/gibbs.html

UAF and UNLV are equal opportunity/ affirmative action employers.

wetges@uark.edu wetges@uark.edu

UOklahoma EvolBiol

Graduate Research Assistantship/Studentship (GRA)

I am looking to fill a 12-month Graduate Research Assistantship/Studentship in my laboratory at The University of Oklahoma Biological Station (UOBS; <http://www.ou.edu/uobs>) with 2-year (24-month funding) secured, with additional funding pending. Applicants must apply and be accepted into either the M.S. or Ph.D. Graduate Program in Zoology at the Univ. of Oklahoma (OU; <http://www.ou.edu/cas/zoology>), as well as fill out the necessary forms for Graduate School Admission at OU (<http://gradweb.ou.edu> <<http://gradweb.ou.edu>>). The initial monthly stipend will be ~\$1,600 (~\$20,000 per year), plus tuition waiver and health insurance coverage included. This GRA/studentship is available beginning 1 January 2008, although a later start date is possible. For more information about my research interests, please visit <http://www.ou.edu/uobs/weider.html>.

Lawrence J. Weider, Ph.D. Director, The University of Oklahoma Biological Station HC-71, Box 205 Kingston, OK 73439 Phone: 1-405-325-7438 ljweider@ou.edu

and

Professor Department of Zoology University of Oklahoma Norman, OK 73019 Phone: 1-405-325-4766 FAX: 1-405-325-0835

ljweider@ou.edu

UTuebingen EvolGenetics

PhD position in evolutionary genetics

Topic: Genetic architecture of natural variation in pathogen defence Location: Tuebingen, Germany and Wageningen, The Netherlands

The PhD project is concerned with a comprehensive genetic analysis of the natural variation in resistance against pathogens. It aims at obtaining fundamental knowledge as to the evolution of host defences in nature. The project relies on a unique model system, consisting of the nematode *Caenorhabditis elegans* as a host and various bacteria as pathogens. The results are expected to have an impact on three biological research themes that are of particular current interest: the animal innate immune system, behavioural defences, and the evolution of the genetic architecture of complex traits.

The project is supervised by Dr. Hinrich Schulenburg, University Tübingen, Germany, and Dr. Jan Kam-menga, Wageningen University, The Netherlands. It is funded by the German Science Foundation (SCHU 1415/6-1). The project will be based in Tübingen,

while some important experiments will be performed in Wageningen. Both labs are active in various fields of evolutionary ecology and provide an international and interactive atmosphere.

Requirements for the position: High motivation, excellent background in either evolutionary genetics or immunology, knowledge of basic molecular techniques (PCR, fragment analysis), handling of complex experimental set-up, statistics, teamwork, ideally some experience with *C. elegans* or bacteria, fluency in English.

Please send applications with CV, a one-page summary of research interests, and two references from senior scientists, as a pdf-file by email to [hinrich.schulenburg<at>uni-tuebingen.de](mailto:hinrich.schulenburg@uni-tuebingen.de). Deadline for applications: 1 October 2007. Start of position: Beginning of 2008. Women are especially encouraged to apply. Severely handicapped people will be preferentially considered in case of equivalent qualifications. For further details + questions, send an email to [hinrich.schulenburg<at>uni-tuebingen.de](mailto:hinrich.schulenburg@uni-tuebingen.de) or check: www.uni-tuebingen.de/evoeco/. Dr. Hinrich Schulenburg

Department of Animal Evolutionary Ecology Zoological Institute University of Tuebingen Auf der Morgenstelle 28 72076 Tuebingen Germany Tel.: +49-7071-2975342 Fax: +49-7071-295634 Email: hinrich.schulenburg@uni-tuebingen.de

Hinrich Schulenburg <hinrich.schulenburg@uni-tuebingen.de>

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CIBIO Portugal Biodiversity

CIBIO is a young and highly dynamic Research Centre located close to Porto, in the north of Portugal, that aims to be an international Centre of Excellence in the general fields of Biodiversity and Evolution, offering great opportunities for multidisciplinary research. The Centre occupies recently-built facilities, and now has approximately 50 researchers holding a PhD degree and more than 50 MSc and PhD students, as well as people from many different countries. The working atmosphere is vibrant and enthusiastic, and the CIBIO is regularly visited by many scientists from abroad. The Centre has fully equipped molecular laboratories (multiple PCR rooms, automated sequencers, real-time PCR machines, etc), as well as technicians, and the necessary equipment for fieldwork. Four 5-years full research contracts are available now, and we expect to recruit at least four enthusiastic and highly motivated researchers in the areas indicated below. The positions should start by the end of 2007.

1. Phylogenetics and Molecular Evolution

A 5-year research contract will be available at CIBIO (<http://cibio.up.pt> and <http://www.eracareers.pt/-index.aspx?idconcurso=2>), Portugal, in the area of phylogenetics and molecular evolution. The position is for five years, and is expected to become permanent at the end of this period. Although the exact field of research is open, the expected researcher is likely to work on molecular phylogeny and phylogeography of vertebrates from the Mediterranean region. It would also be desirable if the candidate had experience working with islands systems within this region. It is further

expected that the researcher will study the molecular evolution of the applied markers, as well as performing phylogenetic and phylogeographic analyses. The post is also likely to involve collaboration with developing countries such as those in North Africa. The candidate should have a degree in Biology, a minimum of 3 years as Post-doc and a Curriculum vitae proving solid knowledge in phylogenetics and molecular evolution. The candidate should additionally have a significant publication record in SCI journals for the above mentioned topics and supervised academic theses (both MSc and PhD theses). A history of conference organisation and attendance will also be considered valuable. Experience is expected on the preparation and coordination of scientific projects. The candidate is expected to build his own research group, establish solid international collaborations, and be able to attract national and international funding. The candidate should be a good communicator and speak and write fluent English, and will be asked to participate in teaching at the MSc and PhD levels. The ranking of candidates will result from a global appreciation of the Curriculum vitae followed by an interview. Salary (14 salaries per year) will be approximately 3000 euros per month gross (or around 2100 euros net). Applications ? including a detailed CV, a statement of research interests and motivation, as well as the emails of at least three referees - will be accepted until September 21th, and the position is expected to start in November-December 2007.

2. Theoretical Population Genetics

A 5-year research contract will be available at CIBIO (<http://cibio.up.pt> and <http://www.eracareers.pt/-index.aspx?idconcurso=2>), Portugal, in the area of theoretical population genetics. The position is for five years, and it may become permanent at the end of this period. The candidate is expected to develop statistical methods for the analysis and hypothesis testing of

the recent evolution of multiple organisms studied at CIBIO. Accordingly, he/she is expected to master population genetics theory, including the coalescent, and to have experience in statistical inference : Bayesian analysis, simulations (e.g. MCMC). In addition, the mastering of spatial statistics and programming knowledge is highly desirable. The successful applicant is expected to develop strong collaborations with other researchers within the CIBIO, and will have access to a series of relevant studies performed with different types of molecular markers. The candidate should have a degree in Biology, a minimum of 3 years as Post-doc and a Curriculum vitae proving solid knowledge in theoretical population genetics. The candidate should additionally have a significant publication record in SCI journals for the above-mentioned topics and supervised academic theses (both MSc and PhD theses). A history of conference organisation and attendance will also be considered valuable. Experience is expected on the preparation and coordination of scientific projects.

— / —

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

ChicagoBotGarden Curator

Position Available

Community Ecologist and Curator of Native Habitats at the Chicago Botanic Garden

The Chicago Botanic Garden seeks a Community Ecologist with research strengths in invasion biology, restoration ecology, and/or spatial ecology for its Plant Science and Conservation Division. Duties include conducting an active conservation-oriented research program with external funding focusing on plant communities, collaborating with a wide range of academic and stewardship organizations, and serving as the curator of the Garden's Native Habitat areas (approximately 150 acres comprised of a natural oak woodland, a river corridor and a re-created prairie). The successful candidate will also teach community ecology at Northwestern University in support of the joint Chicago Botanic Garden/Northwestern University MS program in Plant Biology and Conservation and will have the opportunity to work with graduate students from that program and other Chicago region universities.

Requirements include a Ph.D. in ecology, botany, biology or a related field, expertise in community ecology, strong quantitative skills, and a desire to work in a non-profit environment. Expertise in restoration ecology, invasion biology, spatial ecology, and/or land management techniques is strongly desired, along with considerable knowledge of, and practical experience with, native community restoration in the upper Midwest. For further information about the position, contact Kayri Havens at khavens@chicagobotanic.org. To apply, send cover letter with statement of research and teaching interests, curriculum vitae, and contact information for three references to: Human Resources Department, Chicago Botanic Garden, 1000 Lake Cook Road, Glencoe, IL 60022. Review of applications will begin October 1, 2007 and continue until a suitable candidate is found.

nzerega@chicagobotanic.org

ChicagoBotanicGarden PlantEvol

SENIOR PLANT SCIENTIST

The Chicago Botanic Garden (CBG), in collaboration with Northwestern University, invites applications for a SENIOR PLANT SCIENTIST position. Applicants should be broadly trained in plant biology or ecology in a subfield that will complement some aspect of our current research expertise in restoration ecology, conservation biology, soil ecology, population genetics, plant systematics and economic botany. Particular specialties of interest include global change biology, invasion biology, spatial ecology, seed physiology, or conservation policy. Duties include conducting an active research program with external funding, collaborating with a wide range of academic and stewardship organizations, teaching at Northwestern University, and oversight of some of the Garden's plant biology research staff. The new Senior Plant Scientist will join a team of eleven Ph.D. researchers and participate in teaching in an innovative joint Master's program in Plant Biology and Conservation with Northwestern University, and will help contribute to the development of a joint doctoral program with NU.

Candidates must have a Ph.D. in plant biology, ecology, or a related discipline, a strong record of scholarship, an excellent extramural funding record for research, experience advising students at the doctoral level, and a commitment to undergraduate and graduate education.

Please send a curriculum vitae, statements of research plans and teaching interests, examples of scholarly writing and three letters of reference (mailed directly from referees) to the address below. Review of applications will begin October 15, 2007 and continue until a suitable candidate is found.

Senior Plant Scientist Search Committee Attn: Dr. Larry DeBuhr Chicago Botanic Garden 1000 Lake Cook Road Glencoe, IL 60022 or ldebuhr@chicagobotanic.org (electronic correspondence preferred)

CBG is situated on a 385-acre campus north of Chicago and showcases 23 different demonstration gardens as well as native areas that include woodlands, prairies and aquatic habitats, each featuring native and endangered Illinois flora (<http://www.chicagobotanic.org>).

The Chicago Botanic Garden and Northwestern University are Equal Opportunity/Affirmative Action Employers. Applications from women and minority candidates are encouraged.

nzerega@chicagobotanic.org

ColumbiaU ResAssist MicroEvol

Full-time Research Assistant Barnard College, Columbia University, New York, NY

Kristen Shepards lab in the Department of Biological Sciences at Barnard College seeks a full-time Research Assistant starting as early as September 2007. The Shepard lab uses molecular, genetic, and histological techniques to study the microevolution of shoot meristem development in *Arabidopsis thaliana*. Projects will involve constructing plasmids, generating transgenic plants, and observing meristems using confocal microscopy. Additional duties will include lab maintenance, plant cultivation, assisting with data analysis, and mentoring undergraduate researchers.//

This is an entry level position. Applicants should possess a bachelors degree in biology or a related field. Experience with recombinant DNA techniques and/or fluorescence microscopy is highly preferred. Excellent organizational, communication, and interpersonal skills are essential.

This position is funded for one year with a generous benefits package including tuition assistance; continuation is dependent on grant support.

Review of applications will begin immediately and con-

tinue until the position is filled.

To apply, send cover letter, resume, and contact information for three references to Employment Manager, Barnard College, 3009 Broadway, New York, NY 10027. Fax: 212-854-2454. Email: hr@barnard.edu <<mailto:HR@barnard.edu>>. No telephone calls please.

Barnard is an equal opportunity employer and encourages applications from women and from individuals of diverse racial, ethnic, and cultural backgrounds.

– Kristen Shepard

Assistant Professor Barnard College Department of Biological Sciences 1205 Altschul Hall 3009 Broadway New York, NY 10027

Phone: 212-854-2731 Fax: 212-854-1950

kshepard@barnard.edu kshepard@barnard.edu

FalklandIslands VolunteerAssist

Wanted - Volunteer Field Assistant on Falkland Islands October 2007 - January 2008

We are looking for a field assistant to help with a project on the evolutionary ecology and conservation of shorebirds on the Falkland Islands.

The Project: We are investigating the breeding and behavioural ecology of two-banded plover (*Charadrius falklandicus*) and rufous-chested dotterel (*Ch. modestus*), and their interactions with predators including the striated caracara (*Phalacrocorax australis*). Work involves searching for and monitoring nests, juveniles and ringed adults, capturing birds for measurement, and behavioural assays.

The Place: The Falkland Islands are renowned for their magnificent bird life, as well as good numbers of other animals such as elephant seals and killer whales. The plover project is based on Sea Lion Island (<http://www.sealionisland.com/index.php/uk/38/>), the only site in the Falklands to be an Important Bird Area, an Important Plant Area, and a proposed National Nature Reserve. It is also a Ramsar designated Wetland of International Importance. As Darwin observed of the Falklands avifauna in 1833, the birds on Sea Lion Island are extraordinarily tame, and it is possible to study them at close quarters.

Accommodation on Sea Lion Island is in a Portakabin, with occasional hot water and heating. Conditions are

basic, and the weather is harsh, with strong, cold winds and some rain and snow.

The Field Assistant: We are looking for someone with a degree in Biology, Zoology, Ecology or a related subject, preferably with some field experience.

Essential qualities: The successful applicant will be fit, hard-working and meticulous, and have sharp eyes. He or she will be capable of working independently and looking after him or herself, as much of the work will be unsupervised. Be aware that we will be working under lonely conditions over Christmas and the New Year. Most importantly, a positive attitude and sense of humour are essential!

Desirable qualities: Bird handling/ringing experience is a bonus, as is the ability drive 4 x 4 with manual gearshift.

Expenses in the Falklands (including food, accommodation and transport) will be covered, but the applicant must be prepared to pay their own way to the Falkland Islands.

IF YOU ARE INTERESTED, PLEASE MAIL OR EMAIL YOUR CV AND 2 LETTERS OF RECOMMENDATION. Applications will close on 10th September 2007.

Tamas Szekely, Professor of Biodiversity, University of Bath, UK James St Clair, PhD student

Contact: James St Clair 4 South, University of Bath, Claverton Down, Bath, BA2 7AY, UNITED KINGDOM Email: jjhsc20@bath.ac.uk

jjhsc20@bath.ac.uk jjhsc20@bath.ac.uk

FloridaStateU EpigeneticsEvolGenetics

Epigenetics and Evolutionary Genetics

The Department of Biological Science at Florida State University invites applications for tenure-track faculty positions at any rank in our Integrating Genotype and Phenotype cluster hire of eight positions. This coincides with new construction and an aggressive expansion of faculty at FSU. For more information see <http://www.bio.fsu.edu/genphensearch/> <http://www.bio.fsu.edu/genphensearch/>.

Epigenetics: Researchers investigating fundamental aspects of chromatin or RNA-mediated regulation of phe-

notypic variation, the role of epigenetics in evolution, and those using genomics or computational approaches.

Evolutionary Genetics: Researchers using experimental, computational, or theoretical approaches to study the genotype-phenotype map, including, but not limited to, evolution of development, epigenetic systems, genomics, genetic regulatory networks, or quantitative genetics.

Please submit one electronic application (PDF files preferred) consisting of a cover letter, curriculum vitae, statements of research and teaching interests, and have four letters of reference sent to genphensearch@bio.fsu.edu. Review of applications will begin October 1, 2007, but will continue until the positions are filled.

FSU is an AA/EO employer. Applications from minority and female candidates are especially encouraged.

David Houle

Phone: 850-645-0388 FAX: 850-644-9829 <http://bio.fsu.edu/~dhoule/> Department of Biological Science Florida State University 608 Academic Way, PO Box 3061100 Tallahassee, FL 32306-1100

dhoule@bio.fsu.edu

FranklinCollege Genomics

Please feel free to contact me with any questions. I'd really love to see us hire an evolutionary genomicist!

BIOINFORMATICS FRANKLIN AND MARSHALL COLLEGE

The Biology Department invites applications for a tenure-track ASSISTANT PROFESSOR position in the broad area of bioinformatics, beginning Fall 2008. We seek an outstanding teacher and researcher who uses genome-scale approaches to understand fundamental biological questions. Research interests may include, but are not limited to, functional or comparative genomics, cellular systems (such as signaling or transport), gene expression, or evolutionary genomics. Candidates should have a Ph.D. and demonstrated strength in teaching and research. Teaching responsibilities (3/2 load) include lecture and laboratory sections of a junior-level course in molecular genetics, an advanced elective in bioinformatics or genomics or systems biology, and participation in the general education curriculum. In addition to the Biology major, we offer interdisciplinary

majors in Biochemistry & Molecular Biology and in Biological Foundations of Behavior (neuroscience and animal behavior). Possible research opportunities are available in collaboration with The Clinic for Special Children <http://www.clinicforspecialchildren.org/>. Franklin & Marshall College has a tradition of excellence in science and student research. A new life sciences building opened in August 2007. Please send a letter of application, a statement that includes plans for actively engaging undergraduates through teaching and research and explains your goals for development as a teacher and scholar, a curriculum vitae, and undergraduate and graduate transcripts to Prof. Ira Feit, Department of Biology, Franklin & Marshall College, Lancaster, PA 17604-3003. Applicants should also have 3 reference letters sent directly to Prof. Feit. Priority will be given to completed applications received by September 24, 2007. Electronic submissions cannot be accepted. Telephone: 717-291-4118; Fax: 717-358-4548; e-mail: cindy.mcintyre@fandm.edu; website: <http://www.fandm.edu/biology.xml> –

Dan Ardia Assistant Professor Department of Biology Franklin & Marshall College PO Box 3003 415 Harrisburg Ave. Lancaster, PA 17604 717-291-3949 <http://edisk.fandm.edu/daniel.ardia/index.html> daniel.ardia@fandm.edu daniel.ardia@fandm.edu

FriedrichSchillerU Genetics

Friedrich Schiller University Jena

The Faculty of Biology and Pharmacy at the Friedrich Schiller University in Jena, Germany, is recruiting a W2 (Associate) Professor of Genetics.

The successful candidate should have a strong research program on a modern field of genetics that ideally, complements ongoing research efforts in Jena in Developmental and/or Evolutionary Biology. Close cooperation with the Chair of Genetics and other groups of the Faculty of Biology and Pharmacy and of other Faculties, and at other institutes in Jena, such as the Leibniz Institute for Age Research Fritz-Lipmann-Institute, the Leibniz Institute for Natural Product Research and Infection Biology Hans-Knoell-Institute, and the Max Planck Institute for Chemical Ecology, is expected.

The successful candidate will contribute to the teaching of genetics to biology, biochemistry, and bioinformatics undergraduates and graduates. For the application the Habilitation or an equivalent scientific qualification is

required. The professorship is available as a permanent position. In case of a first time appointment this is as a rule temporary, but exceptions are possible.

The Friedrich Schiller University Jena has a policy of raising the proportion of women in academic positions and therefore specifically invites the application of women scholars with the necessary qualifications. Under German law disabled applicants with full qualifications are to be preferred.

Applications with the usual documents including a CV, list of teaching experience and funding should be sent until 15. September 2007 to

Friedrich-Schiller-Universitaet Jena Biologisch-Pharmazeutische Fakultaet Dekan Fuerstengraben 26 D-07743 Jena Germany

mariana.mondragon@uni-jena.de

mariana.mondragon@uni-jena.de

GeorgiaInstTechnology CompBiol

The School of Biology seeks truly outstanding junior and senior level faculty to complement growing strengths in systems and integrative biology (<http://www.biology.gatech.edu/>). The Georgia Institute of Technology is consistently ranked as one of the top educational/research institutions in the nation. The School of Biology has experienced dramatic expansion in recent years and Georgia Tech is committed to the continued growth and integration of the biological sciences with existing and emerging strengths in quantitative/computational sciences, nanotechnology, nanobiology and engineering.

Experimental Systems Biology: We are searching for individuals at all ranks with outstanding records of research accomplishments. We are particularly interested in identifying individuals taking a systems approach to the analysis of development who can leverage existing/emerging strengths in the areas of computational/quantitative biology, structural biology, genomics, transcriptomics, proteomics and metabolomics. Contact: Professor and Chair John McDonald.

Computational Biology: We are interested in both senior and junior level investigators who employ computational and quantitative approaches to the analysis of integrated biological systems across multiple levels of scale. Specific research areas include the analysis of cellular networks, such as gene regulatory networks and

biochemical pathways, the integration of heterogeneous sources of biological data, the study of genome variation within and between species, evolutionary dynamics and the many scale computational modeling of biological systems. Contact: Associate Professor I. King Jordan.

Environmental Microbiology: We are searching for an environmental microbiologist as part of the expansion in microbial systems biology. While it is anticipated that the position will be filled at the junior level, exceptionally qualified individuals at any rank are invited to apply. Areas of research focus may include metabolomics, proteomics metagenomics and synthetic biology. Contact: Associate Professor Patricia Sobecky.

Candidates should forward a letter of application, a full curriculum vitae and the contact information for four references to the indicated contact individuals.

School of Biology Georgia Institute of Technology 310 Ferst Drive Atlanta, GA 30332 Review of Applications will begin October 1, 2007.

Georgia Tech is a unit of the University System of Georgia and an Affirmative Action/Equal Opportunity Employer and requires compliance with Immigration Control Reform Act of 1986.

J.T. Strelman Assistant Professor School of Biology The Georgia Institute of Technology 310 Ferst Drive Atlanta, GA 30332-0230 404-385-4435 (office) 404-385-4436 (lab) 404-385-4440 (fax) E-mail: todd.strelman@biology.gatech.edu
<http://www.biology.gatech.edu/faculty/-todd-strelman/> Jeffrey Todd Strelman <todd.strelman@biology.gatech.edu>

GoteborgU MoleEvolEcol

Note: APPLICATION DEADLINE 17 SEPTEMBER!!

See also <http://www.science.gu.se/english>

Assistant Professor in Molecular Ecology

Ref Nr E333 2880/07 placed at the Department of Zoology, Goteborg University

The Department of Zoology has frontline research in Evolutionary Ecology, primarily projects in behavioral ecology, population dynamics and conservation biology, many of which apply molecular and evolutionary genetic methods, such as micro satellite markers, protein fingerprinting, and molecular phylogenetics. This new

position as Assistant Professor is aimed to strengthen the Molecular Ecology research in the department, as well as some teaching at graduate and postgraduate levels, including honours and masters projects.

The research of the applicant should preferably be closely related to ongoing projects in the section of Animal Ecology, and is expected to support and initiate collaborations within the department. The position will also include responsibilities for maintaining and managing the molecular ecology lab.

Current projects applying molecular genetics include intraspecific brood parasitism in ducks and geese (Malte Andersson), parentage and conservation genetics of shorebirds, telomeres as age and stress markers (Donald Blomqvist), sex role reversal in pipefish (Lotta Kvarnemo), and colour signal diversity in weaverbirds (Staffan Andersson).

The department has a well-equipped molecular ecology lab, with facilities for cloning, sequencing, fragment analyses, and protein electrophoresis. The Assistant Professor is expected to apply for (and be likely to obtain) external research funding, but will initially be supported by a start-up budget of 100.000 SEK.

Qualification:

A PhD or a foreign exam equivalent to a Swedish PhD, with preference for applicants whose exam is no more than five years old.

Assessment

Preferably the applicant has a PhD in Biology, with relevant education and research experience in Molecular Ecology or related fields.

Particular emphasis will be placed on scientific quality and productivity in relevant subject fields. Broad practical experiences of basic molecular genetic methods are required, such as fragment analyses (microsats, AFLP, SNP's, DNA fingerprinting), PCR-optimisation, primer design and sequencing, combined with associated bioinformatics and theoretical analyses of population genetics and phylogenetics. Experience of some more advanced techniques (e.g. expression-cloning, qPCR, in situ hybridization, or micro arrays) is desirable, as are general social and collaborative skills. Applicants of both sexes are equally welcome

Period of funding:

The position is four years full time, with start as soon as possible, but not later than 1 January, 2008

Application

The application should be written in English, addressed to The Dean, Faculty of Science, and include:

?? A Curriculum Vitae (CV), a list of publications, reprints of a maximum of five scientific publications, certificates of exams and employment, and supplementary documents to be considered. Documentation of pedagogical qualifications should include information about the extent and type of teaching performed, and formal quality reports.

?? A short written account on scientific, pedagogical, and other work of importance for the position, including contacts outside of academia.

?? A short written account of current and planned research.

?? Contact information of at least two persons who can act as references.

Application, including all enclosures, must be submitted in four identical sets, which can be passed on to reviewers without repacking.

The application should be sent to:

The Registrar, Göteborg University, Box 100, SE-405 30 Göteborg, Sweden

stating reference number Dnr E333 2880/07

The application must be received no later than 17 September 2007.

For further information, contact:

Head of department Lars Forlin, tel. +46-31-786 36 76 / lars.forlin@zool.gu.se, or

Staffan Andersson, tel. +46-31-786 3647 / staffan.andersson@zool.gu.se

Trade union representatives: SACO Martin Björkman tel. +46 31-7863608, SEKO Lennart Olsson tel +46 31-7861173, OFR-S Eva Sjögren tel +46 31-7861169.

DEAN OF THE SCIENCE FACULTY

Staffan Andersson <staffan.andersson@zool.gu.se>

Harvard ResTech ButterflyEvol

A one year research technician position is available immediately to work with Bauer Fellow Marcus Kronforst on the evolution, genetics, and development of wing color pattern and mating preference in butterflies. We are especially interested in candidates with a degree in biochemistry or molecular biology, and an interest in evolutionary biology. The position will require assist-

ing with the following duties: establishing and stocking a new lab (identifying lab needs, ordering reagents and equipment), growing and propagating butterfly host-plants in growth chambers and greenhouses, rearing butterflies, performing basic molecular biology tasks (DNA and RNA extraction, PCR, RT-PCR, DNA sequencing, microsatellite and SNP genotyping), and analyzing DNA sequence and population genetic data (sequence analysis software, BLAST, DnaSP, Arlequin). Field work in Costa Rica, Panama, and Ecuador may be required.

We are especially interested in candidates with a degree in biochemistry, molecular biology, or a related field. At least a year of prior laboratory research experience is required. Prior experience with basic molecular biology techniques is preferred.

To apply please visit: http://jobs.harvard.edu/jobs/-summ_req?in_post_id=3D34808

Marcus R. Kronforst FAS Center for Systems Biology
Harvard University 7 Divinity Avenue Cambridge, MA
02138, USA Phone: 617-384-7631 Fax: 617-495-2196

mkronforst@cgr.harvard.edu

mkronforst@cgr.harvard.edu

InstZoo London ResTech

INSTITUTE OF ZOOLOGY ZOOLOGICAL SOCIETY OF LONDON

TWO RESEARCH TECHNICIAN POSTS CONSERVATION GENETICS AND MOLECULAR ECOLOGY Starting salary GBP18,978 to GBP20,827 (including London Weighting) pro-rata Dependent on relevant experience

Applications are invited for two posts as research technician on a DEFRA-funded project to investigate the effect of habitat restoration in agricultural landscapes on bumblebees. Molecular genetic techniques will be used to estimate the number of bumblebee colonies utilising patches of wildflowers. Experience in molecular biology techniques, particularly microsatellite genotyping, will be an advantage.

Each post is for six months and both are available from 1st October 2007.

For informal enquiries contact: Dr W.C. Jordan (bill.jordan@ioz.ac.uk Tel: 020 7449 6631).

Applications, with 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, UK (email HR@zsl.org), from whom further details are available.

CLOSING DATE: 14th September 2007

Read about the Institute of Zoology on <http://www.zoo.cam.ac.uk/ioz/> and ZSL's work on <http://www.zsl.org>

REGISTERED CHARITY NO. 208728

w.jordan@ucl.ac.uk w.jordan@ucl.ac.uk

KansasStateU PopGenetics

Faculty position: Assistant professor, Population Genetics, Kansas State University

Department of Plant Pathology, Throckmorton Plant Sciences Center, Kansas State University, 66506-5502.

Appointment: Full time, tenure track, 90% research - 10% teaching, 12 month

Available: 1 January, 2008.

Responsibilities: Develop a strong, independent population genetics research program emphasizing plant pathogens in agricultural and/or natural ecosystems. Key player in leveraging population genetics research for biodiversity analysis and conservation in collaborative projects. Teach at least one graduate level course in population genetics, train graduate students, secure extramural funding and publish research results in a timely manner. Ability to work in a multi-cultural setting and create an environment that fosters diversity and collegiality.

Qualifications: Required: Ph.D. in Plant Pathology, Genetics, Microbiology, Population or Evolutionary Biology, or a related field. Excellent oral and written communication skills. Demonstrated experience in population genetics research. Preferred: post-doctoral and teaching experience at the college level; demonstrated track record in publishing and obtaining extramural funding and experience leading or working as part of an interdisciplinary research team or equivalent experience in government, industry, or international institutions.

Applications: Please submit: 1) One page statements describing professional goals, research interests and teaching interest/ philosophy; 2) A detailed curriculum vitae; 3) Reprints of up to five relevant publications

and 4) Three letters of reference to: Dr. Bikram S. Gill Plant Pathology Department 4024 Throckmorton Hall Kansas State University Manhattan, KS 66506-5502. TEL: 785-532-1391

Please refer to *i*, $\frac{1}{2}$ Population Genetics' position in all correspondence. ****ELECTRONIC APPLICATIONS WILL NOT BE REVIEWED****

Application deadline is 5 October, 2007 and continues until position is filled.

W. Jon Raupp Senior Scientist Plant Pathology Department 4711 Throckmorton Hall Kansas State University Manhattan KS 66506-5502

785-532-2366 Office 785-532-1353 Lab 785-532-5692 FAX <http://www.ksu.edu/wgrc>

Leiden NMNH SystematicEntomologist

Leiden, The Netherlands

The National Museum of Natural History 'Naturalis' (formerly the 'Rijksmuseum van Natuurlijke Historie') maintains a Research Department of more than 20 permanent staff, surrounded by a large population of temporary and visiting researchers and students. Research foci include systematics, evolutionary biology, conservation biology, and palaeontology. In anticipation of the merger with other large natural history institutions of the Netherlands, the research strategy is currently being reformulated. Most research makes use of the museum's collections of more than 11 million objects, particularly from the Netherlands and the Indo-Australian region. Research facilities include scanning electron microscopy, and a DNA-facility, shared with Leiden University. For more information, visit our website: www.naturalis.nl. The Research department has an opening for a permanent

Systematic / Evolutionary Entomologist

Intended starting date: January 1st, 2008

Responsibilities / duties: ?? The successful applicant will be expected to develop an externally-funded research programme in one or more of the following fields: systematics and phylogenetics, taxonomy, evolutionary biology, biogeography, and biodiversity studies;

?? Besides problem-oriented research, scientists in Naturalis are involved in collection-based studies and up to

20% teaching in the undergraduate and graduate programmes of the universities affiliated with Naturalis, as well as active involvement in the museum's exhibitions and outreach activities.

Qualifications Required: ?? PhD-degree in systematics, evolutionary biology, or related field by the time of hire; ?? Proficient communication skills in English, both written and verbal; ?? Demonstrated ability to publish research results in high-impact, international scientific journals; ?? If Dutch is not the mother tongue, the willingness to learn Dutch.

Desired:

?? Experience with molecular techniques, advanced microscopic techniques, and/or web based taxonomy; ?? Experience with research popularisation; ?? Interest in applications of basic research in conservation, environmental management and identification services.

We offer A salary up to EUR 55,611 per year, including vacation allowance, depending on acquired skills and publication record. Incorporation into a pension fund.

Application procedure Candidates are invited to submit (by e-mail) a letter of application, a curriculum vitae, a statement of research philosophy and interests, names and contact information for three possible references and PDF- files of three key publications to: Jannet Wiersma, Human Resources Dept., National Museum of Natural History (sollicitaties@naturalis.nl). Review of the applicants will begin September 15st, 2007, and continue until the position is filled.

Further information:

... Jan van Tol ... National Museum of Natural History
... Head, Department of Entomology ... P.O. Box 9517
... 2300 RA Leiden ... The Netherlands

T +31 71 568 7606 F +31 71 568 7666 M +31 6 5194 1599

"Tol, J. van" <Tol@naturalis.nnm.nl>

MichiganStateU ResTech DrosophilaEvolGenet

Research Technician: Drosophila Evolutionary Genetics and Genomics

I am looking for an active and well-organized person with relevant research experience to work as a laboratory manager and research assistant in the laboratory of

Ian Dworkin in the Department of Zoology at Michigan State University. My research involves using genetic and genomic approaches to study natural and mutational variation for wing shape and related phenotypes. The successful applicant will be helping establish a new laboratory and research program.

The precise details are:

Minimum Requirements: A bachelor's degree in genetics, biology, or related field; minimum of six months of related work experience in basic molecular biology protocols such as: PCR and RNA analysis; experience with basic insect husbandry, in particular with *Drosophila melanogaster*; experience with micro-dissections of tissues; experience in the use of spreadsheet software.

Desired Qualifications: Skilled with either Windows, OSX, or Linux operating systems; familiarity with Microsoft Excel; knowledge of high throughput molecular biology, in particular DNA sequencing, microarrays and quantitative PCR; experience with *Drosophila* genetics, in particular generating recombinant lines and crosses.

Job Summary: Performs general molecular biology and genetic techniques as applied to fly evolutionary genetics; prepares lab solutions; maintains *Drosophila* cultures and crosses; orders and sets up equipment and supplies; monitors and control hazardous and other materials used in the laboratory; maintains lab records of supplies and orders; maintains database for oligos and strains.

Please apply by email with a letter expressing interest, your CV and names of three references to Ian Dworkin (idworkin at msu.edu) Applications should be received by August 10th, 2007. Start date is expected to be no later than September 1st, 2007.

Ian Dworkin <idworkin@msu.edu>

NESCent DurhamNC ModelingProgrammer

Research Programmer, Data Modeling and Services

The National Evolutionary Synthesis Center (<http://www.nescent.org>) seeks a highly motivated Research Programmer responsible for data modeling, database design, middleware implementation, and implementation of web and data services. The incumbent will collaborate with scientists and software developers to develop a novel system for the analysis of developmental

and phenotypic diversity data using ontologies. This position is in the context of an NSF-funded research collaboration with Paula Mabee (U. of South Dakota), Monte Westerfield (U. of Oregon) and the National Center for Biomedical Ontology. The project home page is at <http://phenomap.nescent.org>.

Job description:

The incumbent will be responsible for creating the data model, schema, server-side middleware, and programming libraries that enable the building of client applications to create, store, browse, search, and manipulate a database of phenotypic knowledge. You will gather requirements from scientists and collaborating developers; determine functional and technical specifications; analyze, design, develop, maintain, document, and test new and existing database schemas, object models, APIs, and software; use and contribute to standards; advise collaborators and supervisors on emerging technologies in semantic knowledge engineering; create technical documentation, contribute to scientific publications; recommend software fixes and enhancements; present work at scientific meetings; advise supervisor and collaborators of priorities, problems and proposed solutions.

Required qualifications:

* Bachelor's degree in Computer Science, Engineering, Bioinformatics, or related field * Two or more years of significant experience in database design, middleware implementation, API design, and object-relational mapping * Thorough knowledge of relational data modeling, ERDs, and normalizing schemas; experience with translating domain models into relational schemas, experience with data warehousing principles * Proficiency in the DDL and DML elements of SQL, and understanding of advanced elements (e.g., sub-queries, views, triggers, stored procedures) * Demonstrated ability to architect, design, and implement object models and middleware on top of databases * Solid understanding of and experience with modern object-relational mapping and middleware technologies and programming frameworks (e.g., JDBC, J2EE/EJB, CMP, JDO, Hibernate) * Experience with designing, implementing, or using resources in an SOA environment (e.g., SOAP, REST, CORBA, JAX-WS) * Familiarity with basic Semantic Web concepts, terminology, standards, and formats (such as XML, XSD, RDF, RDF/XML, triple stores, reasoning, CL) * Demonstrated ability to communicate effectively with both technical and non-technical scientific audiences

Preferred qualifications:

* Master's or PhD degree in Computer Science, Engi-

neering, Bioinformatics, or related field * Three or more years of relevant and significant experience, and at least two years of experience programming Java * Thorough knowledge of basic and advanced elements of database design and programming, such as views, triggers, stored procedures, query optimization, data warehousing, ideally using a PostgreSQL database * Knowledge of and experience with Semantic Web concepts, terminology, standards, and formats * Prior experience and/or education in biology (in particular genetics and evolution) or using or creating ontologies * Demonstrated ability to work and thrive in a collaborative team environment, and to fluidly interact with local and external open-source developer communities; familiarity with agile development methodologies * Proficient knowledge of software development best practices, such as design patterns, reuse, modularity, unit testing, usability testing * Demonstrated ability to contribute to scholarly publications

To apply, please send cover letter, resume, and the contact information for three references to the Asst. Director of Informatics, Hilmar Lapp (hlapp@nescent.org). Further inquiries about the position may be directed to Mr. Lapp by email, or by phone at +1-919-668-5288.

hlapp@duke.edu hlapp@duke.edu

NatInstHorticulture France PlantPopBiol

ASSISTANT PROFESSOR IN ECOLOGY National Institute of Horticulture (INH) Angers, France

The National Institute of Horticulture in Angers (France) invites applications for a tenure track position in plant community ecology or plant population biology. The position is at the Assistant Professor level. Expected starting date is January 1, 2008.

For complete job description, visit http://www.emploi-scientifique.info/esf_view_offre.php?id_offre=-1355&retour_cand=1

The candidate is expected to teach and to contribute to the education and training of undergraduate and graduate students. Research will be conducted in collaboration with the UMR BiO3P. Our team is interested in the evolution of plant-animal interactions as a basis for more sustainable pest and crop management.

Ph.D. required and a post-doctoral experience is desirable.

Deadline for application is September 14, 2007.

Please direct questions to: Josiane.LeCorff@inh.fr

Josiane.LeCorff@inh.fr

NewMexicoStateU EvolBiol

The Science Education position described below is open to PhD biologists with training in science education. These are nine month tenure track appointments.

The College of Arts and Sciences and the College of Education at New Mexico State University have joint positions open in the areas of Math and Science Education (<http://www.nmsu.edu/~personel/postings/-faculty/13221533.html>)

These positions are at the Assistant Professor level and would require teaching courses in the content area (science or math) as well as math or science education courses in the Department of Curriculum & Instruction, and would include research and service components.

Sincerely, Tim Wright – Assistant Professor Department of Biology MSC 3AF New Mexico State University Las Cruces, NM 88003 Phone: 505-646-1136 Office: 375 Foster Hall Behavior lab: 301 Foster Hall, 505-646-4863 Genetics lab: 457W Chem-Biochem, 505-646-4791 <http://biology-web.nmsu.edu/twright> “Timothy F. Wright” <wright@nmsu.edu>

OhioStateU GenomicsProgrammer

The Ohio State University Department of Biomedical Informatics (bmi.osu.edu) seeks a programmer (BS to MS) to develop a workflow application to integrate results of whole genome phylogenetic analysis with geographic, environmental, and phenotypic data. Experience in data modeling, query interface development, and data management in the context of geographic information systems is important, and knowledge of PHP, SQL with PostgreSQL, and XHTML is required. Contact: Daniel Janies, (danjanies@hotmail.com) for more information.

danjanies@hotmail.com

Oregon SeaGrantDirector

Oregon State University is seeking qualified applicants to succeed Dr. Robert Malouf, who is retiring after 17 years as director of the Oregon Sea Grant Program. The director provides overall leadership for Oregon Sea Grant, and oversees a total annual budget of approximately \$5M, and approximately 60 staff and faculty who carry out research, administrative, communication and outreach services. He/she reports to the OSU Vice President for Research. A terminal degree with professional experience and a record of excellence in research/ scholarship, policy, and/or management in marine, coastal, natural resources or a related field are required. Candidates should have significant experience with natural resource issues. Preference will be given to candidates with a demonstrated commitment to the Land Grant/Sea Grant concept of research, education, and outreach.

To apply, visit <https://jobs.oregonstate.edu/-applicants/Central?quickFindQ786>
<blocked::<https://jobs.oregonstate.edu/applicants/-Central?quickFindQ786>>

If you require additional information, please contact Chair, Sea Grant Director Search Committee
c/o Eric Dickey

A322 Kerr Administration Building Oregon State University Corvallis OR 97331

541-737-2715 or

eric.dickey@oregonstate.edu

<blocked::<mailto:eric.dickey@oregonstate.edu>>

Thank you.

“Dickey, Eric” <Eric.Dickey@oregonstate.edu>

OregonStateU FishGenetics

ASSISTANT PROFESSOR-SR. RESEARCH

The Coastal Oregon Marine Experiment Station at the Hatfield Marine Science Center in Newport, OR invites

applications for a Assistant Professor-Senior Research for the Marine Fisheries Genetics Laboratory (<http://www.oregonstate.edu/dept/comes/genetics/>). This is a full-time, 12-month, fixed-term position, however, the successful candidate will be expected to support .25 after one calendar year. Reappointments are at the discretion of the supervisor.

This employee will do research involved in the support of a nationally recognized program in marine fisheries population genetics for Pacific salmon and other economically important West Coast species. They will evaluate research results in context of public and private management of commercial, recreational, and/or aquacultural species. As a member of the Coastal Oregon Marine Experiment Station, he/she will be expected to work closely with federal, state, and private organizations. These duties will also include student instruction on marine population genetics and application to fisheries and aquaculture management.

OSU is one of only two American universities to hold the Land-, Sea-, Sun- and Space Grant designations and is the only Oregon institution recognized for its "very high research activity" (RU/VH) by the Carnegie Foundation for the Advancement of Teaching. OSU is comprised of 11 academic colleges with strengths in natural resources, earth dynamics and sustainability, life sciences, and the arts and sciences. OSU has facilities and/or programs in every county in the state, including 12 regional experiment stations, 41 county extension offices, a branch campus in Bend, a major marine science center in Newport, and a range of programs and facilities in Portland. OSU is Oregon's largest public research university, conducting more than 60 percent of the research funded throughout the state's university system.

The Coastal Oregon Marine Experiment Station is located at the Hatfield Marine Science Center in Newport, which is 55 miles west of Corvallis. Approximately 15,600 undergraduate and 3,400 graduate students are enrolled at OSU, including 2,600 U.S. students of color and 1,100 international students. The university has an institution-wide commitment to diversity and multiculturalism, and provides a welcoming atmosphere with unique professional opportunities for leaders who are women and people of color. All are encouraged to apply.

Salary: Commensurate with qualifications, education and experience.

Required qualifications: PhD in genetics, ecology or evolution with emphasis in statistics. 4-5 years of molecular genetics experience in genomics research, PCR, microsatellite characterization. Training or ex-

perience in Bioinformatics. Familiarity with salmonid hatchery practice and management, experience desired. Demonstrated publication record in peer review journals. Effective presentation with professional demeanor. A demonstrable commitment to promoting and enhancing diversity.

To review posting and apply, go to <http://oregonstate.edu/jobs>, posting number 0001318.

Closing date: September 14, 2007.

Oregon State University is an AA/EOE and has a policy of being responsive to the needs of dual-career couples.

From: Michael A. Banks Director, Cooperative Institute for Marine Resource Studies Associate Professor, Marine Fisheries Genetics Coastal Oregon Marine Experiment Station Hatfield Marine Science Center Dept. Fisheries and Wildlife, Oregon State University 2030 SE Marine Science drive Newport OR 97365-5229 Phone: 541-867-0420 Fax: 541-867-0345 <http://marineresearch.oregonstate.edu/genetics/index.html> <http://oregonstate.edu/groups/cimrs/>

michael.banks@oregonstate.edu

PurdueU EvolFishBiol

Assistant Professor

Fisheries Biology

Purdue University invites applicants for a position at the rank of Assistant Professor in the area of Fisheries Biology. This is a tenure-track, academic-year position that is functionally allocated between teaching and research.

RESPONSABILITIES: Teaching - The successful candidate initially will teach courses in fisheries management, fish ecology, and participate in Natural Resources Practicum. Development of a graduate course contributing to curricular objectives of the graduate faculty is desirable on an alternate-year basis. Mentoring of students is expected. Research - The successful candidate will be expected to develop a dynamic, externally funded, internationally recognized research program that focuses on applied issues related to the conservation and management of aquatic resources. Research interest may span levels of biological organization from subcellular to freshwater ecosystems. We seek applicants who possess quantitative skills, embrace

an integrative approach to science and welcome interdisciplinary collaborations. Opportunities exist for collaborative research within the department in areas such as aquatic community ecology, land-use change modeling, disturbance ecology, metabolomics, ecological genetics, and aquatic ecotoxicology as well as university-wide initiatives in climate change (<http://www.purdue.edu/climate>) and sustainability of ecological systems (<http://www.purdue.edu/pices>). In addition, there will be abundant opportunities to develop collaborative relationships with state (i.e. Indiana Department of Natural Resources, Environmental Management, and Transportation) and federal (i.e. U. S. Fish and Wildlife Service, U. S. Department of Agriculture, U. S. Environmental Protection Agency, U.S. Army Corps of Engineers, and National Oceanic and Atmospheric Administration) agencies which support research initiatives.

QUALIFICATIONS: A Ph.D. in fisheries biology, or a related field, with a strong record of research productivity and teaching experience.

SALARY: Salary will be commensurate with experience and training.

CLOSING DATE: 15 October 2007 or until filled.

APPLICATION PROCESS: Submit (1) cover letter, including the names of three people who have been asked to send letters of reference by the position closing date; (2) a curriculum vita; and (3) statements of research and teaching experience and interests. Application packets should be addressed to Dr. Marisol Sepúlveda Chair, Fisheries Biology Search Committee, Purdue University, Department of Forestry and Natural Resources, 195 Marsteller Street, West Lafayette, IN, 47907-2033. For additional information, contact the Search Committee Chair via phone (765) 496-3428 or email (mssepulv@purdue.edu).

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

Krista M. Nichols Assistant Professor Purdue University Departments of Biological Sciences & Forestry and Natural Resources 915 W State Street West Lafayette, IN 47907 765.496.6848 (phone) 765.494.0876 (fax)

kmnichol@purdue.edu kmnichol@purdue.edu

RiceU EvolBiol

EVOLUTIONARY BIOLOGY. The Department of Ecology and Evolutionary Biology at Rice University (<http://eeb.rice.edu>) anticipates filling a tenure-track faculty position at the ASSISTANT PROFESSOR level. We invite applications in any area of evolutionary biology. Rice is a private university with a strong commitment to the highest standards of research and undergraduate and graduate education. The successful candidate will be expected to establish a vigorous, extramurally funded research program. Applicants should submit a curriculum vitae, statements of research and teaching interests, up to five publications, and arrange to have three letters of recommendation sent to: David Queller, Evolution Search Committee, Department of Ecology and Evolutionary Biology - MS 170, P.O. Box 1892, Rice University, 6100 Main Street, Houston, TX 77251-1892. Review of applications will begin October 17, 2007. Rice University is an equal opportunity/affirmative action employer; women and minorities are encouraged to apply.

queller@rice.edu queller@rice.edu

RutgersU EvolBiologist

AVAILABLE POSITION

Evolutionary Biologist, Rank Open

The School of Environmental and Biological Sciences
Rutgers, The State University of New Jersey

Rutgers University is seeking a scientist with strong research and teaching interests in evolutionary biology, broadly defined. The area of specialization is open. This faculty position is anticipated to catalyze further growth in evolutionary biology, an effort that involves a number of departments within the University, (e.g., Ecology, Evolution and Natural Resources, Marine and Coastal Sciences, Genetics, and Geology; see <http://evolru.rutgers.edu/> for an overview). The successful applicant must have a *Ph.D., preferably with post-doctoral experience. Senior applicants should have a record of superior research accomplishments and funding. Applicants must have a strong commitment to excellence in both graduate and undergraduate teaching.

The tenure home for this hire will be the Department of Ecology, Evolution & Natural Resources, which is broadly concerned with the structure, function, evolution, and management of natural systems. Research activities involve all levels of organization from

the microbial to whole ecosystems on a global scope. Additional information about research and teaching in the department can be viewed on the departmental website (<http://www.rci.rutgers.edu/~deenr/> <<http://www.rci.rutgers.edu/%7Edeenr/>>). In addition to evolution, the department and its allied graduate program (<http://www.rci.rutgers.edu/~deenr/grad/> <<http://www.rci.rutgers.edu/%7Edeenr/grad/>>) have strengths in multiple areas of basic and applied ecology.

*To Apply: *Send cover letter, detailed curriculum vitae, statements describing interests and qualifications in research and teaching, contact information for three references, and up to three selected publications to: Search Committee – Evolutionary Biologist, Department of Ecology, Evolution, and Natural Resources, Rutgers University, 14 College Farm Road, New Brunswick, NJ 08901-8551. We strongly encourage the submission of the above material in electronic form (pdf or Word format on CD) addressed to the same address or sent by e-mail to *evosearch@aesop.rutgers.edu*. The committee will begin reviewing applications beginning *November 1, 2007* and will continue until the position is filled. Final appointment is subject to the availability of funds. A September 1, 2008 starting date is anticipated. For additional information, contact Dr. Lena Struwe, Search Committee Chair, at *struwe**@aesop.rutgers.edu**.*

Rutgers University is an Affirmative Action/Equal Opportunity Employer.

Lena Struwe <struwe@AESOP.Rutgers.edu>

Smithsonian GeneticsLabManager

Genetics Laboratory Manager, Smithsonian Institution
We are recruiting a Laboratory Manager [Biologist] for the Genetics Program of the Smithsonian Institution in Washington, DC. The Genetics Program conducts research and service for both the Center for Conservation and Evolutionary Genetics of the National Zoological Park and the National Museum of Natural History in the fields of population and conservation genetics, and molecular evolution, systematics and ecology. Starting salary range is a GS-9, \$46,041-\$59,852 per annum (salary is subject to salary level increase pending FY08 Federal budget allocation). The position entails laboratory management and research, and the ideal applicant will have had experience manag-

ing a genetics laboratory (i.e., maintenance of laboratory equipment, facilities and frozen tissue collections, and purchasing of supplies and equipment) and conducting and training students and technicians in various molecular genetic methods (including, for example, PCR, DNA sequencing using capillary sequencers, construction of genomic libraries, development of microsatellite and SNP markers, ancient and non-invasive DNA extraction, and microarray procedures). Specific application procedures are available in the position announcement (number 07-JW-293445-JNT-NZP) available from <http://www.sihl.si.edu/job.htm>. Announcement will open 30 August 2007. Applications must be received by 21 September 2007, and must reference announcement number 07-JW-293445-JNT-NZP. All applicants will be notified by email or phone when their application is received. The Smithsonian Institution is an Equal Opportunity Employer. For more detailed information about the position please contact Rob Fleischer (fleischerr@si.edu).

Robert C. Fleischer Center for Conservation and Evolutionary Genetics National Zoological Park National Museum of Natural History Smithsonian Institution
PO BOX 37012 MRC 5503 Washington, DC 20013-7012
phone 202-633-4190

“Fleischer, Robert” <FleischerR@si.edu>

SwanseaU EvolBiol

(NOTE: THE APPLICATION FORMS BELOW ARE NOT WELL REPRODUCED BELOW - IT GIVES YOU SOME IDEA OF WHAT IS EXPECTED. REQUEST MORE INFO, INCLUDING THE APPROPRIATE REFERENCE NUMBER AND HOW TO GET FORMS FROM Professor AF Rowley a.f.rowley@swansea.ac.uk)

SWANSEA UNIVERSITY PRIFYSGOL ABERTAWE
School of the Environment and Society Biological Sciences Fixed Term Lecturer Salary scale: Lecturer A Â£26093 â 29926 Lecturer B Â£30,891 - Â£44,247 per annum

Applicants are invited for the position of Fixed Term Lecturer in the School of the Environment and Society reference M*****

As part of a continuing programme of expansion, the School of the Environment and Society is making a

further academic appointment to enhance its current research profile of research excellence. This post is intended for a research-led specialist working in any area of Biological Sciences who is able to contribute to the School's current undergraduate and proposed postgraduate teaching programmes, the administration of the School, and the School's research strategy of delivering world-class research.

The post holder will undertake academic research in an area of Biological Sciences that complements the School's existing research strengths and will produce high-quality research publications. Although we are interested in receiving applications from any area of biological sciences, our preference is for an individual whose particular research interests fall in one of the following areas:

• Molecular entomology • Behavioural/physiological ecology • Large scale environmental modelling

It is anticipated that interviews will be held on Thursday, 30 August 2007.

Informal enquiries may be made to Professor AF Rowley (Head of Biological Sciences; a.f.rowley@swansea.ac.uk)

An application form and further details may be obtained, quoting the appropriate reference, from the Personnel Department, Swansea University, Singleton Park, Swansea, SA2 8PP, tel. (01792) 295136 (24 hours) or at <http://www.swan.ac.uk/personnel/-Vacancies/>. Closing date: Friday, 24 August 2007.

We are an equal opportunity employer aiming for diversity in our workforce.

August 2007

To be advertised in: UWS Vacancy Bulletin UWS Web Site Jobs.ac.uk

SWANSEA UNIVERSITY

PRIFYSGOL ABERTAWE Job Description Post Title Lecturer Grade B (fixed term, 2 years) School/Department School of the Environment and Society (Biological Sciences) Reports to Professor AF Rowley/Professor M Barnsley Responsible for - Post Reference* Position* Job Description As part of a continuing programme of expansion, the School of the Environment and Society is making a further academic appointment to enhance its current profile of research excellence. This post is intended for a research-led specialist working in any area of Biological Sciences who is able to contribute to the School's current undergraduate and proposed postgraduate teaching programmes, the administration of the School, and the School's research strategy of delivering world-class research.

The post holder will undertake academic research in an area of Biological Sciences that complements the School's existing research strengths and will produce high-quality research publications. Although we are interested in receiving applications from any area of biological sciences, our preference is for an individual whose particular research interests fall in one of the following areas:

• Molecular entomology • Behavioural/physiological ecology • Large scale environmental modelling

The appointment will be made on the Lectureship scale for a fixed term period of 2 years and the successful applicant will have the potential for international research excellence, a track-record of high quality publications and be able to demonstrate clear potential for future research leadership.

Informal enquiries are welcome and should be directed to Prof. Andrew Rowley (Head of Biological Sciences; a.f.rowley@swansea.ac.uk). For more information on the School of the Environment and Society, see our website: www.swansea.ac.uk/environment_society

Completed application forms should be returned to the Personnel Department, Swansea University, Singleton Park, Swansea, SA2 8PP, by Friday, 24 August 2007.

Main Duties and Responsibilities

To develop an independent research programme

To deliver lectures, practicals and tutorials to students in Biological Sciences at BSc and MSc levels

This is a fixed term position (from 1 October 2007 to 30 September 2009) and the commencing salary will be on the following scale for Lecturer B, depending on experience, skills and qualifications, together with USS benefits, if required:

Grade: Lecturer B - £30,891 - £44,247 per annum
Hours: Full time

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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>

UAntwerp EvolBenthicFish

Job (4 year PhD position): intraspecific variation in fish movement behaviour

A 4 year PhD position for a biologist, specialised in behavioural and/or molecular ecology, is immediately vacant at the research group of Prof. Marcel Eens (Laboratory of Ethology, University of Antwerp, Belgium) to study “intraspecific variation in the movement behaviour of small benthic fish species: integrating behavioural, ecological, endocrinological and molecular data”.

The aim of this project is to address gaps in our understanding of intraspecific variation in animal behaviour, especially the movement behaviour of small benthic freshwater fish species (e.g. *Cottus gobio*). To achieve this, the successful candidate will integrate two closely-linked research components: (1) describing the movement of benthic fish using both direct and indirect methods and (2) experimental investigation of the importance of both extrinsic and intrinsic variables for benthic movement behaviour. Besides abiotic and biotic variables, also behavioural (personality traits), endocrinological (hormones) and molecular (relatedness, gene expression) variables and mechanisms will be investigated. The project is supervised by Prof. Marcel Eens and Dr. Guy Knaepkens and is also in cooperation with the research group of Prof. Filip Volckaert (Laboratory of Aquatic Ecology, Catholic University of Leuven, Belgium).

Candidates should have a strong background in behavioural ecology, endocrinology, population genetics and/or molecular ecology. Furthermore, they are required to have research experience in basic behavioural, ecological and/or molecular techniques (e.g. animal tagging, telemetry, electrofishing, genotyping, qPCR, 2D-DIGE,...). Finally, experience in field and/or laboratory based experimental research is strongly recommended. The candidate is also expected to apply for national fellowships (FWO, IWT).

To apply, please e-mail a letter of motivation and C.V. (including scientific background and study results) to Prof. Marcel Eens (marcel.eens@ua.ac.be) by 20 August 2007.

Contact:

Prof. Dr. Marcel Eens University of Antwerp Campus Drie Eiken / Department Biology - Ethology Building C - Room 1.26 Universiteitsplein 1 B - 2610 Antwerp (Wilrijk) - Belgium Tel. : +32 3 820.22.84 - Fax : +32 3 820.22.71 E-mail: marcel.eens@ua.ac.be <<mailto:marcel.eens@ua.ac.be>>

guy.knaepkens@ua.ac.be guy.knaepkens@ua.ac.be

UAuckland EvolBiol

Lecturer in Evolutionary Biology (A551-07G)

School of Biological Sciences, Faculty of Science

Top of Form

The successful applicant will be expected to teach and coordinate courses in evolutionary biology both at undergraduate and postgraduate levels; to undertake research and secure funding, and to supervise research students for the MSc and PhD degrees.

Location

Auckland

Term of Contract

Permanent

Closing Date

30 September 2007

Position Overview

The School of Biological Sciences invites applications for a tenured position as Lecturer in Evolutionary Biology in the Evolution, Ecology and Behaviour Section. We are particularly interested in applicants whose research involves evolutionary ecology, although a record of outstanding achievement and a promising research program are more important than the specific research area.

You will be expected to collaborate with other researchers as well as establish your own research portfolio which attracts funding and graduate students. You will also be expected to teach broadly in the area of evolutionary biology in the school's academic programme at both undergraduate and graduate levels.

The School of Biological Sciences currently employs 180 staff and supervises 120 PhD students. The school has modern laboratories and facilities (see SBS web site: <http://www.sbs.auckland.ac.nz/>), and the applicant would have easy access to a wide range of New Zealand's unique biota and habitats. In addition, the university operates a marine laboratory 100km north of the city with a 15m research vessel and access to a wide range of marine habitats (see Marine Science web site: <http://www.marine.auckland.ac.nz/>). The University is situated in the heart of Auckland, a modern lively city with a beautiful harbour and beaches, a warm cli-

mate and access to many outdoor activities.

Job Description

Purpose Statement

To undertake high quality teaching and research in the School

Responsible To

Director of the School of Biological Sciences

Key Accountability Areas

TEACHING Undertake undergraduate and postgraduate teaching as required by the Director. Supervise and assess student work.

RESEARCH Undertake an active, appropriate and viable personal research programme. Submit research-funding applications to appropriate agencies. Disseminate knowledge through scholarly research activities and publications. Participate in conferences to advance research interests. Supervise graduate students' research. Work collaboratively with colleagues.

ADMINISTRATION Carry out administrative responsibilities appropriate to the position. Undertake administration of course(s).

UNIVERSITY RESPONSIBILITIES Participate in community service activities that further advance the particular field. Participate in University and/or School committees. Ensure the observance of University policy and codes of practice in all teaching, research and administrative practices. Contribute to the development of the School working environment of teamwork and cooperation.

Person Specification

Qualifications

Relevant PhD degree, and some research publications

Experience

Experience in evolutionary biology and associated research. Some experience in postgraduate teaching would be an advantage.

Kendall Clements <k.clements@auckland.ac.nz>

UCalgary ResAssist BreedingMigration

Title: Research assistant position to work on breeding

migration in bighorn sheep

Study overview: This is a landscape-scale study of male and female breeding migration in bighorn sheep. The 625 square-mile study area is located in Kananaskis Country along the east front of the Canadian Rockies in southern Alberta. We are using GPS tracking technology, backcountry foot surveys and detailed behavioral observation to understand the who, when, where and why of bighorn migration. By understanding how ecological connectivity is established in relatively intact habitat, we aim to identify how connectivity might be conserved or restored in more disturbed areas.

Principal Investigators: Dr. Kathreen Ruckstuhl (University of Calgary; www.ucalgary.ca/contact/faculty/-ruckstuhl.html) Dr. Jack Hogg (University of Calgary and Montana Conservation Science Institute; www.mocsi.org) **Salary and term of employment:** \$1700/month (Canadian) for the period October 25 - December 20, 2007. **Application deadline:** September 15, 2007.

Duties: Working from backcountry tent camps and cabins, assistants will census groups of bighorn and conduct structured observations of bighorn rutting behavior. Census surveys will require up to 10-15 miles walking per day along established routes, scanning with binoculars/spotting scopes and radio telemetry. Qualified assistants will generally work alone but census routes will periodically cycle each person through study headquarters at the University of Calgary's R.B. Miller Biological Station. Each backcountry tent camp will have an 8x10 foot internal metal frame canvas wall tent heated with a metal box wood stove and outfitted with lantern, cots, cookware, and radio communication. Cabins are similarly equipped. The study area is in a Chinook weather zone but periods of relatively mild late fall weather are occasionally interrupted by periods of extreme cold (down to ca. -25 degrees Celsius) and field staff must be prepared to function safely in these conditions.

Experience: Although university-level course work or degrees in ecology/behavioral ecology are assets, there are no strict academic requirements. We are more interested in basic intellectual skills (patience, curiosity, attention to detail), a can-do attitude and a physical hardiness appropriate to fall-winter field work in mountainous terrain. In short, a passion for fieldwork and the toughness it demands. Additional assets include training and/or experience in (i) radio telemetry, (ii) winter camping and travel (skis or snowshoe), (iii) avalanche risk assessment, and (iv) backcountry medicine. This is a challenging position V adventure with a purpose V for persons with advanced field and backcountry skills.

Training: Successful applicants will complete a 7-10 day training course in Missoula MT (USA) beginning in late October. Training topics will include (i) a study overview, (ii) detailed instruction and practice in data collection, radio telemetry and set-up and use of backcountry camps, and (iii) short courses in avalanche risk assessment and backcountry medicine taught by local experts. The highlight of the training period will be 5-7 days at the National Bison Range (50 miles north of Missoula) where assistants will practice census techniques and behavioral observation of rutting bighorn in an un-hunted population with an early breeding season. Study headquarters: In Canada, study headquarters will be the R.B. Miller Biological Station located within Sheep River Provincial Park. The station has road access, cooking and sleeping facilities, electricity and propane heat but no running water. Headquarters for the training period are the Montana Conservation Science Institute (Missoula MT) and the National Bison Range bunkhouse (Moiese MT). Both of the latter facilities offer the full range of basic amenities (heat, electricity, running water). Pets are not permitted at either site and housing is available for project personnel only.

Travel, supplies and gear: You will be responsible for travel from your home to Missoula and back. The project will provide transportation from Missoula to Sheep River and back and at field sites. Also provided are scopes, tripods, binoculars, tape recorders, notebooks, wall tents, cook ware and stoves, fuel bottles, water purifiers, compasses, first-aid kits, radio communication equipment, snowshoes, cots, saws and assorted other backcountry camp equipment. You must provide basic personal field gear (storm jacket and pants, boots, sleeping bag, backpack, etc.). The project will cover all housing costs but you are responsible for your food and toiletries.

To apply: Send or email resume and cover letter to:

Jack Hogg Montana Conservation Science Institute
5200 Upper Miller Creek Road Missoula MT 59803
(406) 251-5069 jthogg@montana.com

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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/evodir.html>

UCaliforniaDavis Phylogenetics

Quantitative Phylogenetics/Comparative Methods, UNIVERSITY OF CALIFORNIA, DAVIS – The College of Biological Sciences, University of California, Davis invites applications and nominations for a tenure-track position in the Section of Evolution and Ecology at the ASSISTANT PROFESSOR level. Candidates must have a Ph.D. (or equivalent) in the biological sciences or related fields. Candidates should have a strong record of research applying phylogenetics to problems in evolution and/or ecology. We will give particular attention to applicants who are both developing and applying quantitative phylogenetic methods. The successful candidate will be expected to teach in the section's undergraduate program and the graduate program of the Population Biology Graduate Group. Applicants should submit materials online at <http://www2.eve.ucdavis.edu/jobs/>. These should include: curriculum vita, description of current and projected research, summary of teaching interests and experience, and up to five publications. Applicants should also arrange to have three referees submit supporting letters online at the above website. Closing Date: Open until filled, but all application materials, including letters of recommendation, must be received by October 15, 2007, to assure full consideration. Administrative contact: Barbara Shaneyfelt (bashaneyfelt@ucdavis.edu). Faculty contacts: Bradley Shaffer and Peter Wainwright. The University of California is an Equal Opportunity/ Affirmative Action Employer with a strong institutional commitment to the development of a climate that supports equality of opportunity and respect for differences.

H. Bradley Shaffer Section of Evolution and Ecology & Director, Center for Population Biology University of California One Shields Ave. Davis, CA 95616

phone 530-752-2939 fax 530-752-1449 Website
<http://www2.eve.ucdavis.edu/shafferlab> hbshaffer@ucdavis.edu
hbshaffer@ucdavis.edu

UCaliforniaLA EvolBiol

UCLA Department of Ecology and Evolutionary Biology

Faculty Positions in Ecology and Evolution

The Department of Ecology and Evolutionary Biology at UCLA invites applications for TWO TENURE-TRACK positions for an Ecologist and Evolutionary Biologist, both at the Assistant Professor level. We seek candidates who address central concepts in ecology and evolution using theory and/or experimentation. Applicants working on all systems, particularly those working in the marine realm, are welcome. The Department is also interested in individuals with a history of promoting diversity in education. The expected start date is September 2008. Candidates must have a Ph.D.; postdoctoral experience is desired. Salary is commensurate with education and experience. Successful candidates are expected to participate in undergraduate and graduate teaching and to maintain an externally funded research program. UCLA has outstanding resources, including the UC Natural Reserve System, the NSF Institute of Pure and Applied Mathematics (IPAM), the Institute of the Environments Center for Tropical Research and Coastal Center, a departmental seawater flume facility, re-circulating seawater holding facilities, a coastal research vessel, and many core facilities. Applicants should submit application materials online (www.eeb.ucla.edu/eceovobio) cover letter, curriculum vita, statements of research and teaching interests, 2-3 publications, and names and addresses of three references. Please use job number: 0830-0708-01 (Ecologist) or 0830-0708-02 (Evolutionary Biologist) in all correspondence. For additional information, contact Search Committee Chair Priyanga Amarasekare (amarasek@eeb.ucla.edu). Review of applications will begin September 15, 2007. UCLA is an affirmative action/equal opportunity employer with a strong institutional commitment to the achievement of diversity among its faculty and staff.

Posted by Victoria Sork Professor and Chair, Dept of Ecol & Evol Biology Professor, Institute of the Environment phone: 310-825-7755 Fax: 310-206-0484 Address: UCLA Department of Ecology & Evolutionary Biology BOX 951606 Los Angeles, CA 90095-1606

Victoria Sork <vlsork@ucla.edu>

UChicago EvolTheory

Quantitative/Theoretical Ecologist

The Department of Ecology & Evolution is seeking to fill a tenure track faculty position with an individual

working at the interface of theory and data in ecology. Rank is open, with a preference for ASSISTANT or ASSOCIATE PROFESSOR. Interested applicants with a PhD should submit a CV, selected reprints and preprints, and statements of research and teaching interests to <http://ecologysearch.uchicago.edu> <<http://ecologysearch.uchicago.edu/>>. Applicants should also arrange for three letters of reference to be submitted to this site. Applications will be accepted until the position is filled, but applications and letters should be received before 17 September 2007 to ensure full consideration. The University of Chicago is an Affirmative Action/Equal Opportunity Employer.

ehudson@pondside.uchicago.edu

ehudson@pondside.uchicago.edu

UColorado EvolDevoBiol

As seen in the 17 August issue of Science:

EVOLUTIONARY DEVELOPMENTAL BIOLOGY

The Department of Ecology and Evolutionary Biology at the University of Colorado seeks to hire an ASSISTANT PROFESSOR in evolutionary developmental biology. We encourage applications from those addressing questions at the genomic, molecular, cellular, and/or organismic levels, involving any group of eukaryotes. Applicants must submit curriculum vitae and statements of research and teaching interests in the form of a single PDF file via e-mail: evodevo@colorado.edu Applicants should also arrange for three letters of reference to be sent to the same e-mail address. Review of applications will begin on September 24, 2007. The University of Colorado at Boulder is committed to diversity and equality in education and employment

Pamela.Diggle@Colorado.EDU

Pamela.Diggle@Colorado.EDU

UDurham FishPopGenetics

Durham PDRA position available

An application deadline has now been set for this position - 5 Sept 07 - see:

https://jobs.dur.ac.uk/jobdtdls.asp?Session_in=&Uid=&vref 76

Population genetics and phylogenetics at the mid-Atlantic Ridge.

A three-year post-doctoral position is available in the Molecular Ecology Group at the University of Durham, Durham, UK. Funding is from NERC and in affiliation with the ECOMAR consortium and MARECO (part of the census of marine life). The project will involve population genetic comparisons for several deep-sea fish species across possible boundaries to gene flow at the ridge and sub-polar front, and phylogenetic investigations of invertebrate species (including Holothuroidea) at the ridge. The work is facilitated by a full-time technician. The proposed start date is now 1 November, 2007. The successful applicant will have a PhD and extensive experience with population genetic and phylogenetic lab and computer analyses. Please apply online at the web site given above.

a.r.hoelzel@durham.ac.uk

UGeorgia EvolEcol

*Faculty Positions in Population and Evolutionary Ecology at the Assistant/Associate Level**

As part of its strategic planning, the newly formed Odum School of Ecology at the University of Georgia anticipates multiple new faculty lines and now seeks to fill two tenure-track positions at the level of Assistant or Associate Professor. One post will be in the general area of/ Population Ecology/*, with the successful applicant expected to complement our existing strengths in theoretical ecology, disease ecology, spatial ecology, species interactions or conservation biology. We also invite applications for a position in*/ Evolutionary Ecology/*, and seek a candidate who integrates field, experimental, and/or theoretical approaches to investigate questions at the interface of ecology and evolution.

There is much scope for collaborative work at the University of Georgia, both within the School of Ecology and with the surrounding departments such as Genetics, Forestry and Natural Resources, Plant Biology, Entomology, Veterinary Medicine and Marine Sciences. The successful applicants will be expected to develop a creative research program capable of attracting extramural funding and demonstrate an interest in teaching at the undergraduate and graduate levels.

Applicants should submit a curriculum vitae, PDFs of three publications, a cover letter indicating career goals, and brief statements of teaching and research interests. They should also arrange for four letters of reference to be sent. Applicants for the population ecology position should submit application materials to popecol@ecology.uga.edu <<mailto:popecol@ecology.uga.edu>>, while evolutionary ecology applications should be sent to evoleco@ecology.uga.edu <<mailto:evoleco@ecology.uga.edu>>.

To ensure full consideration, applications should be submitted by October 12th 2007.

/The University of Georgia is an Affirmative Action/Equal Opportunity Employer./

Pejman Rohani <rohani@uga.edu>

UKansas Phylogenetics

Postdoctoral Position in Medusozoan Phylogenetics at the University of Kansas and Smithsonian Institution

A two-year postdoctoral position is available to participate in an NSF sponsored Assembling the Tree of Life project for Cnidarians (CnidToL). We are looking for an individual with a strong background in computational methods in phylogenetic analyses, molecular sequence analysis, bio/phyloinformatics, and invertebrate biology. The successful candidate will split his/her time between the University of Kansas (Department of Ecology and Evolutionary Biology) under the supervision of Dr. Paulyl Cartwright and the Smithsonian Institution (National Museum of Natural History) under the supervision of Dr. Allen Collins.

Review of applications begins September 30, 2007 with an estimated start date November 1, 2007

Salary, competitive based on experience

Apply to: <https://jobs.ku.edu> (position #00206267)

Questions to: Dr. Paulyl Cartwright, pcart@ku.edu <<mailto:pcart@ku.edu>> or Dr. Allen Collins, COLLNSA@si.edu <<mailto:COLLNSA@si.edu>>

Dr. Allen G. Collins - phone: (202) 633-0645, fax: (202) 357-2986 Invertebrate Zoologist with Curatorial Responsibilities for Medusozoa and Hexactinellida National Systematics Laboratory of NOAA Fisheries Service National Museum of Natural History, MRC-153

Smithsonian Institution, P.O. Box 37012, Washington, DC 20013-7012 USA

For FedEx (or other couriers), please use: Smithsonian Institution, MRC 0163, Natural History Building, West Loading Dock 10th and Constitution Avenue, Washington, DC 20560

The contents of this message are mine personally and do not necessarily reflect any position of the Government or the National Oceanic and Atmospheric Administration.

“Collins, Allen” <COLLINSA@si.edu>

UOtago 2 EvolBiol

A07/111

UNIVERSITY OF OTAGO Te Whare Wananga o Otago

Dunedin, New Zealand

Lecturer / Senior Lecturer / Associate Professor (Two Positions)

Wildlife Management/Conservation Biology, and Behavioural Ecology/Evolutionary Biology

DEPARTMENT OF ZOOLOGY

Wildlife / Conservation Biologist: Applications are invited from Wildlife and Conservation Biologists and Population / Behavioural Ecologists, with a Conservation Biology focus to teach and develop a research program in population ecology for conservation, pest control and/or harvest management. Evidence of engagement with governmental agencies, NGOs, and/or community groups in the application of research to conservation management would be an advantage.

Behavioural Ecologist / Evolutionary Biologist: Applications are invited from Behavioural Ecologists and Evolutionary Biologists to teach and develop a research program in behavioural ecology/evolutionary biology. The successful applicant will contribute to teaching behavioural ecology at undergraduate and postgraduate levels.

One position will be offered as a fixed-term (three-year) appointment at the level of Senior Lecturer/Associate Professor, and the other as a confirmation-path (tenure track) position at the level of Lecturer/Senior Lecturer. The successful candidates are expected to take up duties by 1 February 2008.

Further information may be obtained from: <http://www.otago.ac.nz/zoology/> Specific enquiries may be directed to Professor Alison Mercer, Head of Department: Tel 64 3 479 7961, Fax 64 3 479 7584, Email alison.mercer@stonebow.otago.ac.nz

Reference Number: A07/111. Closing Date: Friday 28 September 2007.

APPLICATION INFORMATION

With each application you must include an application form, an EEO Information Statement, a covering letter, contact details for three referees and one copy of your full curriculum vitae. For an application form, EEO Information Statement and a full job description go to: <<http://www.otago.ac.nz/-jobs>>www.otago.ac.nz/jobs Alternatively, contact the Human Resources Division, Tel 03 479 8269, Fax 03 479 8279, Email job.applications@otago.ac.nz Equal opportunity in employment is University policy.

E tautoko ana Te Whare Wananga o Otago i te kaupapa whakaorite whiwhinga mahi.

“Hamish G. Spencer”
<hamish.spencer@stonebow.otago.ac.nz>

UOxford Bioinformatics

MRC Mammalian Genetics Unit Bioinformatician/Computational Biologist EUMODIC

Oxfordshire

EUMODIC - EU funded project Starting salary £19,238 - £30,589 per annum depending on experience

The Bioinformatician/Computational Biologist will work within the Bioinformatics Group, on the EU funded project EUMODIC. They will be responsible for managing and curating the EuroPhenome database, a database of mouse phenotype data. In addition they will be involved in the development and integration of phenotype ontologies with this database, alongside integration with related datasets such as Ensembl.

Applicants should hold a first degree (or higher) in Biological Sciences, Computer Science or Bioinformatics and/or have appropriate experience with mouse phenotype data and/or ontology development. The candidate should be proficient in at least one programming language, preferably Java. A strong background in management of large datasets and data integration, and experience of ontology editors such as Protégé or

OBO-Edit, would be an advantage.

We offer a competitive salary, 30 days holiday and a generous pension scheme.

See the EUMODIC group website www.eumodic.eu for more information on the project and <http://www.mgu.har.mrc.ac.uk/> for more information on the Unit's research. Please contact John Hancock (j.hancock@har.mrc.ac.uk) or Ann-Marie Mallon (a.mallon@har.mrc.ac.uk) with any questions.

This post is fixed term for 3 years with possible extension to the project until 31 January 2011.

For an application form please email oxford.recruitment@ssc.mrc.ac.uk, quoting reference number 2007-478/ MGU EUMODIC Bioinformatician/Computational Biologist

Closing date for applications: 3 September 2007

The MRC is an Equal Opportunities Employer

Dr John M. Hancock Head of Bioinformatics, MRC Mammalian Genetics Unit, Harwell, Oxfordshire OX11 0RD, U.K.

E-mail: J.Hancock@har.mrc.ac.uk Telephone: +44 (0)1235 84 1014 Fax: +44 (0) 1235 84 1210
WWW: <http://informatics.har.mrc.ac.uk/> Personal Page: <http://informatics.har.mrc.ac.uk/jmhwww/>
j.hancock@har.mrc.ac.uk j.hancock@har.mrc.ac.uk

UQueensland TelomereEvol

Queensland Government & the University of Queensland

Brisbane, Australia

Queensland Department of Primary Industries invests \$100m pa in world-class basic and applied scientific research. Research in the Sustainable Fisheries Unit is focussed on providing new information about commercially exploited fisheries and by-catch species to improve the accuracy of mathematical models used to set catch limits. Within this brief, the Molecular Fisheries Laboratory (MFL) provides information such as genetic population structure, effective size and individual identification using the most recent advances in molecular and population genetics.

The laboratory is embarking on an ambitious new area of work to use telomeric DNA as a marker for individual age in a range of fisheries species. This will in-

volve transferring scientific knowledge from the field of human cancer research, where telomeres are a significant research target, to non-model organisms such as lobsters, crabs and prawns. The ages of individuals of these species in the wild, and hence their growth, is poorly known. Individual growth is critically important in determining the optimal proportion of a resource that can be removed on a sustainable basis. Sustainable exploitation of fisheries resources is essential to ensure the future of the commercial and recreational fishing industry that is worth about \$600 million pa to the Queensland economy.

MFL is searching for a molecular geneticist (full-time, initially for one year, \$59,564 to 65,046 pa) and a post-graduate student (stipend \$22,000 pa) to work on this project. Ideally you will have a background or interest in telomeric DNA and cell biology. The student will complete an MSc or PhD at the University of Queensland and be co-supervised by Dr Melissa Brown (School of Molecular and Microbial Sciences).

More information can be obtained from Jenny Ovenden (contact details below) or seek.com.au mycareer.com.au and careerone.com.au from 4th August. Closing date for geneticist position is 20th August 2007.

Jenny Ovenden Senior Research Scientist, Molecular Fisheries Laboratories Queensland Department of Primary Industries and Fisheries Floor 6, North Tower, Queensland Biosciences Precinct University of Queensland, St Lucia QLD 4072 Office +61 7 3346 2431 Fax +61 7 3346 2727 Mobile 0415 949 410 Email: Jennifer.Ovenden@dpi.qld.gov.au Website <http://www2.dpi.qld.gov.au/fishweb/11629.html> Call Centre 13 25 23

It's kind of fun to do the impossible - Walt Disney

Jennifer.Ovenden@dpi.qld.gov.au

Jennifer.Ovenden@dpi.qld.gov.au

USouth EvolBiology

The University of the South seeks to hire a Tenure-Track Assistant Professor of Biology. The successful candidate will teach upper-division undergraduate courses in GENOMICS, MOLECULAR GENETICS or/and EVOLUTION, participate in the department's introductory biology classes, and maintain an active research program with opportunities for undergraduate involvement. Candidates should be enthusiastic about

developing a teaching and research program in the context of the liberal arts tradition in education. The College of Liberal Arts and Sciences at the University has an undergraduate enrollment of about 1,400 and is located on a biologically diverse 10,000-acre campus on Tennessee's Cumberland Plateau. Review of applicants will begin on October 8 2007 but applications will be accepted until a suitable candidate is found. Send a letter of application, curriculum vitae, statements of teaching and research interests, transcripts, and three letters of reference to: Teresa Smith, Personnel Services, 735 University Avenue, The University of the South, Sewanee, TN 37383. Submissions via email are preferred; send to tersmith@sewanee.edu. More information about the position can be found at www.sewanee.edu/biology/search.html. The University of the South is an Equal Opportunity Employer. Minorities and women are encouraged to apply.

kzigler@sewanee.edu kzigler@sewanee.edu

UStAndrews ResAssist YeastGenetics

UNIVERSITY OF ST ANDREWS SCHOOL OF BIOLOGY RESEARCH ASSISTANT Salary: £22,650 - £25,492 per annum

This 3 year post will be to work in the laboratory of Dr V Anne Smith performing experimental work in yeast, *S. cerevisiae*, in support of an integrated computational-experimental research program to reveal gene regulatory networks.

You should have an undergraduate honours degree or the equivalent in Biology, Bioinformatics, or related field, experience in laboratory techniques, and an interest in exploring computation-related biological research. Prior experience with yeast is desirable, but not required.

Informal enquiries to Dr V Anne Smith, email: anne.smith@st-andrews.ac.uk and for further information about the lab please visit <http://biology.st-andrews.ac.uk/vannesmithlab/> Please quote ref: ME011/07 Closing date: 10 September 2007

Application forms and further particulars are available from Human Resources, University of St Andrews, College Gate, North Street, St Andrews, Fife KY16 9AJ, (tel: 01334 462571, by fax 01334 462570 or by e-mail Jobline@st-andrews.ac.uk. The advertisement

and further particulars and a downloadable application form can be found at <http://www.st-andrews.ac.uk/-employment/>.

The University is committed to equality of opportunity.

– Dr V Anne Smith School of Biology Sir Harold Mitchell Building University of St Andrews St Andrews, Fife KY16 9TH United Kingdom +44 (0)1334-463368 anne.smith@st-andrews.ac.uk biology.st-andrews.ac.uk/vannesmithlab/

anne.smith@st-andrews.ac.uk anne.smith@st-andrews.ac.uk

USydney EvolMarineBiol

Lecturer/Senior Lecturer in Marine Animal Biology School of Biological Sciences Faculty of Science Reference No. 107947

The School of Biological Sciences is a leading centre for biological research in an organismal, ecological and evolutionary context. It now invites applications for a full time continuing position as Lecturer/Senior Lecturer in Marine Animal Biology from outstanding candidates working on any marine animal system. The successful applicant will have a PhD and be expected to develop and maintain an active research programme within the School in the biology of marine animals and to participate in collaborative research within the School, across units in the Faculties of Science and outside the University. The appointee will be expected to supervise honours and PhD students in the School. Excellent teaching skills are a requirement of the position, as are an interest in course development and potential for future development. Duties will include teaching across all undergraduate levels.

This is a solid career opportunity to work with internationally reputed teaching and research group. The appointee will be expected to have an excellent record of research, or exceptional potential, with the ability to communicate effectively with fellow researchers and students. He/she will be expected to make a significant contribution to the School's research profile; preference may be given to candidates whose research interests and proposed research complement existing areas of research in the School or those in other research centres within the Faculties of Science.

For more information or to apply online, please visit <http://positions.usyd.edu.au> and search by reference

number 107947. Specific enquiries about the role can be directed to the Head of the School of Biological Sciences, Professor M.B. Thompson on (+61 2) 9351 2848 or email: headofbio@usyd.edu.au Alternatively, general enquiries can be directed to Fabrice Noi on (+61 2) 9036 7295.

Closing: 5 Sept

POINTER ADVERTISING COPY Lecturer/Senior Lecturer in Marine Animal Biology School of Biological Sciences Faculty of Science Reference No. 107947

The School of Biological Sciences is a leading centre for biological research in an organismal, ecological and evolutionary context. It now invites applications for a full time continuing position as Lecturer/Senior Lecturer in Marine Animal Biology from outstanding candidates working on any marine animal system. This is a solid career opportunity to work with an internationally reputed group and to build a significant research profile.

For more information or to apply online, please visit <http://positions.usyd.edu.au> and search by reference number 107947. Specific enquiries about the role can be directed to the Head of the School of Biological Sciences, Professor M.B. Thompson on (+61 2) 9351 2848 or email: headofbio@usyd.edu.au Alternatively, general enquiries can be directed to Fabrice Noi on (+61 2) 9036 7295.

Closing: 5 Sept

– Dr Maria Byrne Professor Developmental and Marine Biology Director One Tree Island Research Station Anatomy and Histology, F13 University of Sydney NSW 2006 Australia

Ph: 61-2-9351-5166 FAX: 61-2-9351-2813
mbyrne@anatomy.usyd.edu.au <http://www.anatomy.usyd.edu.au/research/groups/byrne/index.html>
<http://www.bio.usyd.edu.au/OTI/mbyrne@anatomy.usyd.edu.au>

USydney EvolutionaryMarineBiol

Lecturer/Senior Lecturer in Marine Animal Biology

School of Biological Sciences

Faculty of Science

Reference No. 107947

The School of Biological Sciences is a leading centre for biological research in an organismal, ecological and evolutionary

context. It now invites applications for a full time continuing position as Lecturer/Senior Lecturer in Marine Animal Biology from outstanding candidates working on any marine animal system. This is a solid career opportunity to work with an internationally reputed group and to build a significant research profile.

For more information or to apply online, please visit <http://positions.usyd.edu.au> and search by reference number 107947. Specific enquiries about the role can be directed to the Head of the School of Biological Sciences, Professor M.B. Thompson on (+61 2) 9351 2848 or email: headofbio@usyd.edu.au Alternatively, general enquiries can be directed to Fabrice Noi on (+61 2) 9036 7295.

– Dr Lars Jermiin Biological Science, Bldg A08 University of Sydney NSW 2006, Australia

+61-2-9351-3717 (phone) +61-2-9351-4119 (Fax)
[lars.jermiin\[at\]usyd.edu.au](mailto:lars.jermiin[at]usyd.edu.au)

lars.jermiin@usyd.edu.au

UToronto CommunityEvolEcol

Faculty Position in Community Ecology *University** of **Toronto** **Scarborough**

The Department of Biological Sciences invites applications for a tenure stream position in community ecology. We are particularly interested in applicants who have a strong field-based research program. The successful candidate will join a group whose research strengths include macroecology, macroevolution, biogeography, and the dynamics of environmental change and will be expected to take an active role in both graduate and undergraduate teaching. Further information on the research and teaching programs of the Department may be found by consulting the departmental web site at <http://www.utsc.utoronto.ca/~biosci/index.html> <<http://www.utsc.utoronto.ca/%7Ebiosci/index.html>> .

Applicants should submit a complete vita (including separate statements of research and teaching interests) and copies of recent reprints and arrange to have three letters of recommendation (including comments on research, publications and teaching) sent by referees. All materials should be addressed to: The Chair, Community Ecology Search Committee, Department of Biological Sciences, University of Toronto Scarborough, 1265 Military Trail, Toronto, Ontario, Canada,

M1C 1A4 or to biologicalsciences@utsc.utoronto.ca <mailto:biologicalsciences@utsc.utoronto.ca>. The closing date for applications is October 1, 2007. The position will be effective July 1, 2008. Salary will be commensurate with qualifications and experience. All qualified candidates are encouraged to apply, however, Canadians and permanent residents will be given priority.

/The //University// of //Toronto// is strongly committed to diversity within its community and especially welcomes applications from visible minority group members, women, Aboriginal persons, persons with disabilities, members of sexual minority groups, and others who may contribute to the further diversification of ideas. The University is responsive to the needs of dual career couples. The //University// of //Toronto// offers the opportunity to conduct research, teach, and live in one of the most diverse cities in the world./

Professor Greg C. Vanlerberghe Interim Chair, Department of Biological Sciences University of Toronto Scarborough 1265 Military Trail, Toronto ON, Canada M1C1A4

Tel: 001-(416)-287-7431 (office); 001-(416)-287-7240 (laboratory) E-mail: gregv@utsc.utoronto.ca; Fax: 001-(416)-287-7676

Greg Vanlerberghe <gregv@utsc.utoronto.ca>

UWollongong PlantMolEvol

Senior Research Assistant - molecular ecology of plants

Fixed term (20 month) full time appointment

We are seeking a suitably qualified individual to provide high level research assistance on a project investigating the importance of conserving genotypic variation and using the Proteaceae as a model system. In this role you will conduct DNA extractions, microsatellite genotyping, data analysis, specimen collection and experimental manipulations.

To succeed, you will have a degree in molecular ecology or population genetics. You will have experience in DNA extraction, primer development and microsatellite genotyping. You will also demonstrate your exceptional communication and organisational skills, as well as your ability to see projects through to successful completion.

Candidates must address the selection criteria specified in the position description, which is available from our website. For further information about this role, please contact Professor David Ayre on (02) 4221 3440 or via email: dja@uow.edu.au

Applications Close 9 September 2007

Quote Ref No: 21816

Professor David J Ayre School of Biological Sciences
Institute for Conservation Biology University of Wollongong Australia

David Ayre <dja@uow.edu.au>

VanderbiltU ResAssist EvolBiol

for evoldir: RESEARCH ASSISTANT in EVOLUTIONARY ECOLOGY

Funk laboratory, Department of Biological Sciences, Vanderbilt University, Nashville, TN

A short-term (ca. 2 months) research position is available in the laboratory of Dr. Daniel Funk to participate in an NSF-funded project on the topic of ecological speciation. This project involves greenhouse experiments on the behavioral and ecological causes of host shifts and reproductive isolation in host-plant-specific populations of leaf beetles (see <http://en.wikipedia.org/wiki/Neochlamisus>). Data collection will involve long hours in a greenhouse setting. The successful candidate will play a major role in both the collection of data for these experiments and the care of insect and plant stocks. He or she may also participate in additional lab activities and projects.

The position is available the first of September and applications will be evaluated upon receipt. Salary and benefits will be commensurate with experience. Duration of the position is negotiable, but will be partly contingent upon performance and the availability of funds.

To apply, please submit a brief letter of application, a CV or resume, and contact information for at least three references. Application materials may be sent by e-mail. Applicants should have a B.S. or M.S. and candidates with research experience especially with insects, plants, behavioral studies, or evolutionary ecological research generally are preferred.

The successful candidate will join a laboratory employing field, behavioral, evolutionary genetic, and comparative approaches to study the evolution of ecolog-

ical specialization, speciation, and evolutionary diversification, especially in various insect study systems. Our laboratory is part of the Department of Biological Sciences at Vanderbilt, which resides in a new (2002) building with modern greenhouse and sequencing/genotyping facilities. Vanderbilt University is located in the middle of Nashville, TN, home to music venues of all genres, performance arts centers, sports arenas, museums, and 10,200 acres of managed parkland.

Additional information on the department (<http://sitemason.vanderbilt.edu/biosci>) and the Funk lab (https://medschool.mc.vanderbilt.edu/biosci/bio_fac.php?id3-3) is available on the internet. For articles about a recent study from our lab see: <http://www.vanderbilt.edu/exploration/stories/speciation.html> or <http://www.vanderbilt.edu/register/articles?id=24940>

For further information or questions, please send an e-mail to: daniel.j.funk@vanderbilt.edu.

Christopher G. Brown Vanderbilt University Department of Biological Sciences VU Station B, Box 35-1634 Nashville TN, 37235-1634

“Christopher G. Brown” <cg.brown@Vanderbilt.Edu>

YaleU ResAssist MicrobialExpEvol

Yale University Department of Ecology and Evolutionary Biology Research Assistant I Experimental evolution of RNA viruses

A Research Assistant I position is available in the Turner laboratory in the Department of Ecology and Evolutionary Biology at Yale University (<http://www.yale.edu/turner/home/index.htm>). The Turner

lab uses RNA viruses (especially phage phi-6) and other microbes to test theoretical predictions. We seek an enthusiastic individual to participate in our experimental evolution projects and to oversee various lab activities. The successful candidate should be motivated, organized and careful, with excellent oral and written communication skills, and be able to work largely independently. Salary will depend on experience, and health benefits will be provided. This job has been posted on the Yale job postings site (<http://www.yale.edu/hronline/stars/application/>), requisition # 1798BR.

Job responsibilities will include performing basic microbiology and molecular techniques (DNA and RNA extraction, PCR, sequencing) as well as general lab management (including some supervision of undergraduate researchers). Opportunities for independent research projects will also likely exist.

Minimum qualifications are a B.A./B.S. degree in biology (or a related field), and demonstrable experience conducting research in a microbiology lab. Preference will be given to those candidates with significant laboratory experience that includes troubleshooting and optimizing microbiology protocols, and/or those who have previously worked with microbes.

Review of applications will begin August 15, 2007 and continue until the position is filled. Informal inquiries about the position are welcome and can be directed to Paul Turner (paul.turner@yale.edu). To apply, send your resume or CV, and include a cover letter describing your interest in the position and any relevant expertise. Also, arrange to have at least two professional letters of reference sent by email/fax/mail to:

Paul E. Turner Department Ecology & Evolutionary Biology PO Box 208106 165 Prospect St Yale University New Haven, CT 06520 tel: 203-432-5918 fax: 203-432-5176 email: paul.turner@yale.edu web: <<http://www.yale.edu/turner/home/index.htm>> <http://www.yale.edu/turner/home/index.htm> paul.turner@yale.edu

Other

Beckman vs ABI	44	Harvard fellowships	50
Bird supertrees	44	ITS Fungal contamination	50
Bottleneck software	45	ITS fungal contamination	51
CONSEL problems	45	Important phylogenies	51
Clergy Letter Project	45	Leaf Preservation answers	51
Clone or sequence	46	Loci for Migration analysis	52
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Beckman vs ABI

Dear EvolDir Members,

We are about to start up a new genetic laboratory and are thinking about sequencers. These would primarily be used for microsatellites. We are debating if we should go for a Beckman CEQ 8000 or an ABI 3110. The sequencer will be used to optimize microsatellites. The high throughput runs will, however, be run on an ABI 3730 off campus. Do the two sequencers (Beckman and ABI) have too different chemistries preventing effective optimization on a Beckman and high throughput on an ABI 3730? Moreover, I have experience with an ABI 3110 and was rather happy with it, though I have not used the Beckman CEQ 8000 any recommendations or reviews about the Beckman?

Thanks!

Jens –

Dr. Jens Carlsson Population Geneticist Duke University Marine Laboratory Nicholas School of the Environment and Earth Sciences 135 Duke Marine Lab Road Beaufort, NC 28516-9721, USA

Office: +1 252 504 7615 Fax: +1 252 504 7615 (wait 7 rings)

Email: jac61@duke.edu <mailto:jc@vims.edu>

Bird supertrees

We are building a bird supertree, and would like your help. Katie Davis (PhD student in my lab) has assembled a large number of source trees, constructed an MRP matrix, and has put online a first, very crude supertree.

As an experiment we invite anybody interested to download the data and try their hand at building a supertree. We provide a form for uploading any supertrees that result, and a simple viewer to help navigate a tree of this size online.

Our hope is to encourage a competition to find the “best” supertree. Participants will get credit in the resulting paper.

For more details please visit <http://linnaeus.zoology.gla.ac.uk/~rpage/birdsupertree/>.

Regards

Rod

Professor Roderic D. M. Page Editor, Systematic Biology DEEB, IBLS Graham Kerr Building University of Glasgow Glasgow G12 8QP United Kingdom

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iChat: <aim://rodpage1962> reprints: <http://taxonomy.zoology.gla.ac.uk/rod/pubs.html> Join Sys-

tematic Biology through the Society of Systematic Biologists Website: <http://systematicbiology.org> Search for taxon names: <http://darwin.zoology.gla.ac.uk/~rpage/portal/> Find out what we know about a species: <http://ispecies.org> Rod's rants on phyloinformatics: <http://iphylo.blogspot.com> Rod's rants on ants: <http://semant.blogspot.com> r.page@bio.gla.ac.uk

will appreciate any suggestion. I use Mac OS 10.3.9.

Thanks,

Ramiro

Dr. Ramiro Morales-Hojas Molecular Evolution Lab
IBMC Rua do Campo Alegre 823 Porto 4150-180 Portugal

e-mail: rmhojas@ibmc.up.pt

rmhojas@ibmc.up.pt

Bottleneck software

Dear EvolDir Members, I recently tried to download and install the program Bottleneck 1.2.02 on my WindowsXP machine, but when I try to install the program I get an error message (The specified path ... does not exist), no matter where I place the installation files. Does anyone have a working copy of the installation files they could send me? or thoughts on how to solve the problem (I must be missing something obvious...). Alternatively, is there other software performing similar kinds of analyses for microsatellite data? Thanks in advance,

– Maarten Vonhof Assistant Professor, Department of Biological Sciences and Environmental Studies Program Western Michigan University Kalamazoo, MI 49008-5410 Phone: (269) 387-5626, Fax: (269) 387-5609 E-mail: maarten.vonhof@wmich.edu

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CONSEL problems

Dear Evoldir members,

I am trying to compare two tree topologies using 'consel' (Shimodaira & Hasegawa, 2001) but don't seem to get it right. Whenever I try to run the PAUP generated file with the sites likelihoods in 'makermt' I get two different messages (depending on changes I make to the file): 1) cant read double, and 2) warnin: zero size in malloc. There is also another problem since consel don't like gaps (-) and I have six of them. Thinking that this could be the problem, I have tried deleting the sites and making their lnL = 1, but still no luck with running the programme. Does any of you experienced these problems and have found the solution? I

Clergy Letter Project

Dear Brian,

I'm hoping that you will post the following note on EvolDir. Although the note is self-explanatory, let me briefly say that it encourages scientists to add their names to a list of consultants for The Clergy Letter Project. Being a consultant simply means that the scientist is willing to answer questions posed by clergy members who are supportive of evolution and modern science. The Clergy Letter Project itself is a group of more than 10,800 Christian clergy who have signed a letter recognizing "evolution as a core component of human knowledge." The purpose of The Clergy Letter Project is to demonstrate that those fundamentalists who are asserting that people must choose between religion and science are not speaking for thousands of religious leaders. The purpose of the consultant's list, the latest initiative of The Clergy Letter Project, is to provide technical support for these clergy and to make a large political statement that religious leaders and scientists can work together to promote science literacy. To date more than 350 scientists from 16 countries have signed up.

Thanks very much for sharing this information with your list. For what it's worth, I am an evolutionary biologist with a Ph.D. from Washington University.

If you have any questions, please do not hesitate to contact me.

Michael

Michael Zimmerman Office of the Dean College of Liberal Arts and Sciences Butler University Indianapolis, IN 46208

Tel: 317.940.9224 Fax: 317.940.8815
mz@butler.edu<<mailto:mz@butler.edu>>

LETTER FOR POSTING

Dear Fellow Scientist,

I'm hoping that you will join me in helping to fight creationism and in support of high quality science literacy worldwide!

I am writing to you on behalf of The Clergy Letter Project, a collection of more than 10,800 Christian clergy members who have signed The Clergy Letter (www.evolutionsunday.org<<http://www.evolutionsunday.org>>) asserting that Christianity and modern science can comfortably coexist and recognizing the centrality of evolution in modern science. Many non-Christian religious organizations have also affirmed the compatibility of faith with science, and we are currently in the process of expanding our efforts to include all religions.

In addition to collecting signatures on this open letter, The Clergy Letter Project has sponsored Evolution Weekend, an opportunity for religious congregations to come together to discuss the compatibility of religion and science. Begun as Evolution Sunday, the second annual event, held on 11 February 2007, had an increase in participating congregations of more than 32 percent from the first year's event.

Over the past several years, many religious leaders have asked me if I can connect them with a local scientist who might be willing to help them with some aspect of a sermon on which they are working or with some question a congregant has. They have also wondered if I know of some scientists who might be willing to run an adult education class for their congregation.

As The Clergy Letter Project matures, we are attempting to provide more and better resources to clergy members who understand the importance of science and who do not find science to be a threat to their faith. That's where you come in.

The Clergy Letter Project has recently created an online data base of scientists who are willing to answer questions posed by clergy members and who are excited about the possibility of interacting with clergy members and their parishioners in an attempt to explain the beauty and power of science. In short, our purpose has been to create a data base of scientists who might be willing to provide technical support to clergy members in need of such support. You can view this list at http://www.butler.edu/clergyproject/-rel_expert_data_base.htm. These scientists represent over 14 different countries, and will be interacting with believers of a wide variety of religious traditions.

While the Clergy Letter Project has focused on gain-

ing the signatures of American members of the clergy, we feel the time has come to reach out internationally, in order to maximize the impact and resonance of our statement.

If you are willing to be a part of this endeavor, please send me (mz@butler.edu<<mailto:mz@butler.edu>>) an e-mail note with the following information:

Name: Title: Address: Areas of Expertise: E-mail address:

Additionally, please forward this note to any other scientists who you think might want to be listed in our data base and circulate it widely via any list serve to which you might belong. Together we can build a vibrant and strong coalition of religious leaders and scientists who are willing to speak out for high quality science instruction.

Please understand that because we are looking for scientists willing to

— / —

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>

Clone or sequence

Dear Colleagues,

I would like to ask you a very simple question. After amplifying a PCR product on an agarose gel and obtaining a very clear unique band, is it necessary to clone into a plasmid and then sequence, or could be the PCR product directly sequenced? If it should be cloned into the plasmid, what is the reason?

Best regards,

Iruka

iruka_kin@yahoo.com

Comparing genetics morphometrics

Dear EvolDir members,

I am having difficulties with interpreting the differences between the “factorial correspondence analysis” and the “factorial correspondence analysis on populations” implemented in GENETIX. Am I correct that FCA does an ordination to minimize the variance among all observations (i.e. tries to find the combination of factors that explains most of the variation among points), whereas FCA on populations tries to minimize the variance between points within populations, but maximizes the variance between (the centroids of) populations?

I wish to compare the genotypic variance (6 microsat loci) among conspecific cichlid fish populations with their morphometric variance. For the morphometrics, I exerted a PCA, using “log(traits)” as variables, and “populations” as grouping variable. I do find some morphometric differentiation between some populations. For the genetics, I cannot discriminate the individual populations using FCA, but with FCA on populations I do get some separation of certain populations. As I want to compare my genotypic factor analysis results with my morphometric analysis results, I need to be sure to use a comparable (identical?) ordination approach. Therefore, my question is which technique(s) would you suggest to use in this situation?

Many thanks in advance, Sincerely, Dieter Anseeuw

– Dieter Anseeuw Katholieke Universiteit Leuven
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http://www.kuleuven.be/cwis/email_disclaimer.htm
Dieter.Anseeuw@kuleuven-kortrijk.be

ComputerHardware for evol

Hello, Long analyses, never ending bootstrapping, etc... we're suffering of these on our own computers and we are thinking of buying a big machine for several users. The idea is not to compete with clusters or multimillion machines that would be accesible remotely but to have a dedicated computer locally that would significantly lower our waiting time... let say maybe by a factor 20 or 50 (or more!) as compared to an average personnal computer? We're mostly using classical Mac and Windows softwares from Paup to MrBayes and all flavours of ML stuff... We're considering a top end Macpro with maximal processor speed and number

(like 2x4coresx3Ghz) and RAM (like 16Gb), but maybe there are better suggestions? If you have any idea or advice we'd be very happy to know them! Thanx in advance Jean

Jean Mariaux, Muséum d'Histoire Naturelle, Genève
jean.mariaux(at)ville-ge.ch

Jean.Mariaux@ville-ge.ch Jean.Mariaux@ville-ge.ch

DNA removal rtPCR

I am looking for suggestions on how to clean plant DNA from a Trizol/chloroform RNA extraction. I am currently using Ambion's DNase-free and have to treat the samples multiple times to clean samples with concentrations of 1400 to 800ng/ul total RNA/DNA. I am performing quantitative real time RT-PCR and require as much DNA removal as possible. Any suggestions are welcome.

Thanks,

Rick Sharpe rms3j@mtsu.edu Middle Tennessee State
University

sbergemann@nature.berkeley.edu

Echinostoma revolutum samples

Dear EvolDir folks,

We work on phylogeography of trematode *Echinostoma revolutum* and we would be grateful to obtain samples from Europe. In particular, we will appreciate a few adult worms stored in 96% ethanol with some background information on hosts and collection sites. Alternatively, if not adult worms, also DNA samples of European *E. revolutum* will be appreciated. Please contact Jillian Detwiler at: jdetwile@purdue.edu

Thank you in advance,

Jillian Detwiler

Department of Biological Sciences Lilly Hall of Life
Sciences Purdue University 915 W State Street West
Lafayette, IN 47907, USA ph: +1 765 494 9103

mzavodna@purdue.edu

EffectivePopSize estimates

Dear EvolDir members,

I would like to post a general question to the readers of EvolDir dealing with the selection of potential software packages used to estimate effective population sizes (N_e) based upon microsatellite data. I suppose that a lot of small programs exist out there, each having unique data formats and assumptions. What would be the best choice if you know genotype data and generation time of the investigated populations?

I will post all comments later on EvolDir.

Many thanks in advance, Sincerely, Martin Koch

Mag. Martin Koch Department of Zoology University of Graz Universitätsplatz 2 8010 Graz Austria

martin.koch@uni-graz.at <mailto:martin.koch@uni-graz.at> phone: +43 316 380 8756

<http://www.kfunigraz.ac.at/zoowww/personal/mkoch/koch.htm> <<http://www.kfunigraz.ac.at/zoowww/personal/mkoch/koch.htm>>

martin.koch@uni-graz.at

EffectivePopSize estimates answers

Here are the comments I received for the N_e -estimator question recently posted here. Many thanks to everyone who responded:

The choice of program will strongly depend on whether you are co-estimating population size with other population genetic forces, how much you favour speed over precision etc. For single (isolated) populations many/all program will do a good job.

Try these based on the coalescent and use a microsatellite mutation model (stepwise or an approximation to that)

Migrate (Beerli): <http://popgen.scs.fsu.edu> <<http://popgen.scs.fsu.edu>> takes into account gene flow among populations, parallelized over loci, uses step-

wise and Brownian motion approximation LamarC (Kuhner et al): <http://evolution.gs.washington.edu/-lamarc> takes into account gene flow, recombination exponential growth, uses stepwise and Brownian motion approximation IM and IMa (Hey and Nielsen): <http://lifesci.rutgers.edu/~hey/HeylabSoftware.htm> <<http://lifesci.rutgers.edu/~hey/HeylabSoftware.htm>> takes into account gene flow among 2 populations and allow for divergence from an ancestral population Roychudhury and Stephens: <http://www.genetics.org/cgi/content/full/176/2/1363> <<http://www.genetics.org/cgi/content/full/176/2/1363>> estimates single scaled population size fast Beast (Drumond, Rambaut et al): http://beast.bio.ed.ac.uk/Main_Page <http://beast.bio.ed.ac.uk/Main_Page> estimates a single population with variable models for changes of population size over time Batwing: Wilson and Balding: <http://www.mas.ncl.ac.uk/~nijw/> <<http://www.mas.ncl.ac.uk/~nijw/>> I have certainly missed many other programs and ignore the programs based on frequencies,

Peter Beerli

We have created a program to infer N_e from a single sample of microsatellite data. You can use the program at <http://genomics.jun.alaska.edu/> <<http://genomics.jun.alaska.edu/>> David Tallmon

IM and Migrate are good for N_e estimation, so are Mark Beaumont's programs. For program descriptions and links, see my Microsatellites page on <http://softlinks.amnh.org> <<http://softlinks.amnh.org>> Best, Sergios-Orestis Kolokotronis

a nice program implementing 6 different N_e techniques is NeEstimator from the Ovenden Lab (available at <http://www2.dpi.qld.gov.au/fishweb/13887.html> <<http://www2.dpi.qld.gov.au/fishweb/13887.html>>). Input format is a genepop format and it is quite easy to use.

good luck

Gregory Maes

Best,

Martin

Mag. Martin Koch Department of Zoology University of Graz Universitätsplatz 2 8010 Graz Austria

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Evol Bioinformatics

Evolutionary Bioinformatics is now on MEDLINE

Evolutionary Bioinformatics, now in its third year, is an international, peer-reviewed journal focusing on all aspects of computational evolutionary biology, molecular evolution and functional genomics, and evolutionary bioinformatics (see http://la-press.com/-journals.php?pa=home&journal_id=17).

We are pleased to announce that the journal has been accepted for MEDLINE indexing. This means that the full text of all journal articles will appear in Pubmed once XML has been created and approved by the NIH (approval is underway). MEDLINE indexing ensures a wide readership among scientists in the most relevant disciplines. Of the approximately 200,000 English-language scientific journals published world-wide, only about 5,000 are indexed by MEDLINE.

Articles appearing in the most recent issue include:

Choosing and Using Introns in Molecular Phylogenetics, a review by Simon Creer

Fast Genes and Slow Clades: Comparative Rates of Molecular Evolution in Mammals, by Olaf R. P. Bininda-Emonds

A Reduction Algorithm for Computing The Hybridization Number of Two Trees, by Magnus Bordewich, Simone Linz, Katherine St. John and Charles Semple
. An Improved Implementation of Codon Adaptation Index, by Xuhua Xia

Mammoth and Elephant Phylogenetic Relationships: Mammut Americanum, the Missing Outgroup, by Ludovic Orlando, Catherine H\344nni and Christophe J. Douady

Mark Pagel Editor-in-Chief http://la-press.com/-journals.php?pa=3Dhome&journal_id=3D17

Genesamp help

Hi all.

I've been having some problems running Genesamp. When I try to open the program, a black window opens and then closes itself automatically, along with an error sound. I tried to run it using the Run function in the Start menu (Windows XP) but the same thing occurred. I tried to run it directly from MS-DOS but that didn't work either. I've changed computers (though not operating systems) and have still encountered the same problem. I was wondering if maybe some of you had faced a similar situation and/or had an idea how to solve the problem.

Thanks in advance.

Gisselle Perdomo Universidad Simon Bolivar Dpto. Estudios Ambientales Apdo. 89.000, Caracas 1080-A, Venezuela Phone: (58-212) 906 3043 Fax: (58-212) 906 3039 email: gisselle_p@yahoo.com Caracas - Venezuela
gisselle_p@yahoo.com

GroupSize Parasitism Data

META-ANALYSIS SEEKING DATA ON GROUP SIZE AND PARASITISM

A National Evolutionary Synthesis Center (NESCent: www.nescent.org) working group is exploring ways to enhance meta-analyses and syntheses through broader requests for data. Here, we present one pilot request for data for a proposed synthetic work. Charles Nunn and Laszlo Garamszegi seek unpublished results and "pointers" to published results involving the association between group size and parasitism in vertebrates. The data will be used in a meta-analysis to investigate the links between sociality and parasitism. All published studies will be cited in resultant publications, and unpublished work may be given credit through consortium coauthorship for the person providing the data. For more information, please see:

<http://www.biology.duke.edu/noorlab/Nunn.html> If you have questions about the broader NESCent project

of enhancing synthetic works, or have an idea for a synthetic work that you'd like to pursue that also would benefit from broader requests for data, please contact Mohamed Noor (Duke) or Maria Servedio (UNC-Chapel Hill), or see:

<http://www.biology.duke.edu/noorlab/SEED.pdf>

Charles L. Nunn personal site: www.eva.mpg.de/primat/staff/charles_nunn/index.htm mammal parasites: www.mammalparasites.org phylogeny of sleep: www.bu.edu/phylogeny/index.html Max Planck Institute for Evolutionary Anthropology Deutscher Platz 6 04103 Leipzig, Germany email: nunn@eva.mpg.de tel.: ++49 (0) 341 3550 204 fax: ++49 (0) 341 3550 299

and

Department of Integrative Biology University of California Berkeley, CA USA tel.: ++1 510 643 2579

Charles Nunn <nunn@eva.mpg.de>

HRAS ORFs

Dear all

The HRAS protein is known to have 190 amino acids, and an open reading frame of 570 nucleotides, and it is located on the minus strand.

On NCBI

http://www.ncbi.nlm.nih.gov/entrez/-batchseq.cgi?dopt=graph&extrafeat=504&out=on&list_uids=51493057&_from=472130&_sfrom=472130&_to=474729&_slen=5000&_phrap=off

This gene appears with 5 exons. exons 4 and 5 both end with STOP codons (UGA). When the nucleotides in these five exons are added up, There are 633 nucleotides. When the first four exons are added up, there are 513 nucleotides.

Does anyone know where the full sequence of the (570 nucleotide) open reading frame can be found (Sanger doesn't have it)? Could anyone explain this data on NCBI, and whether it is possible to find the open reading frame of 570 nucleotides there?

Thank you in advance,

Johnathan

whitmanjohnathan@yahoo.com

Harvard fellowships

FELLOWSHIPS

The Radcliffe Institute for Advanced Study at Harvard University awards fully funded fellowships each year. Radcliffe Institute fellowships are designed to support scientists of exceptional promise and demonstrated accomplishment. Scientists, in any field, with a doctorate in the area of the proposed project by December 2006 are eligible to apply. Only scientists who have at least two published articles or monographs are eligible to apply.

The stipend amount of \$70,000 is meant to compliment sabbatical leave salaries of faculty members. Fellows receive office space, computers and high speed links, and access to libraries and other resources of Harvard University during the fellowship year, which extends from early September 2008 through June 30, 2009. Residence in the Boston area is required as is participation in the Institute community. Fellows are expected to present their work-in-progress and to attend other fellows' events.

For more information, including lists of present and past fellows, visit our Web site at www.radcliffe.edu. Applications are due by December 3rd, 2007. Apply on-line or write, call, or e-mail for an application:

Radcliffe Application Office 34 Concord Avenue, Cambridge, MA 02138 617-496-3048 - science@radcliffe.edu - www.radcliffe.edu Becki Smith Science Program Administrator Radcliffe Institute for Advanced Study Harvard University 10 Garden Street Cambridge, MA 02138 Ph: 617.496.5545 Fax: 617.496.3179 bsmith@radcliffe.edu

"Smith, Becki" <bsmith@radcliffe.edu>

ITS Fungal contamination

Dear Evoldir-ers, We have amplified ITS sequences from ~20 species of Irises and sequenced them. BLAST against gene-bank showed that the sequences are more relate to fungi than to other gene-bank sequences of

Irises. We extracted DNA again in highly sterile-care conditions, and again: fungi sequences... Should we use fresh young leaves (emerging in late fall)? Should we use seeds (with horrible dormancy of up to 12 years)? Our goal is to proceed to population genetics using field-collected leaves, but we need to assure we have Iris, and not fungal, DNA in hand. Any tips to avoid fungi contamination? What are YOU doing to avoid fungi DNA into your plant DNA extract? Thanks in advance for your answers! Yuval

– Yuval Sapir, PhD Post-doctorate research associate
Dept of Life Sciences (Bergman campus) Ben-Gurion
University of the Negev Beer Sheva, Israel 84105

ITS fungal contamination

It may be that you are amplifying an endophyte or a smut, both of which may be excluded by heat treatment during micropropagation. The alternative would be to compare your sequences to those of listed smuts or endophytes (mostly Clivicipetales, e.g. Neotyphidium spp.) and exclude matches. I doubt that your fungal sequences could mask plant sequences. Perhaps you could separate your products (fragment analysis based on size or SSCP) and go from there?

David Yohalem Research leader

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David.Yohalem@emr.ac.uk

Important phylogenies

Dear Colleagues,

I'm preparing an undergraduate journal club in systematics and would like to solicit your opinions as I select the papers.

In your opinion, what are the most important phylogenies that have ever been published? Why?

The criteria you use can be totally subjective. I'm looking for a fun and diverse group of papers to read. Though I could fill the course with my own favorites, I am hoping that the EvolDir community can help me show my students how systematics has played an important role in nearly every corner of biological and biomedical research.

I'll compile and post the responses.

Thanks!

Steve

Steve Jordan Department of Biology Bucknell University Lewisburg, PA 17837 Office: 310 Bio. Bldg. +1 570-577-1254 Lab: 331 Bio. Bldg. +1 570-524-3816 Fax: +1 570-577-3537 <http://www.facstaff.bucknell.edu/sdjordan/jordan.html>

steve.jordan@bucknell.edu steve.jordan@bucknell.edu

Leaf Preservation answers

Dear all,

A few weeks ago, I sent a mail about the optimization of long-term preservation of leaf material in silica gel (see my mail below). I've got several answers and thank all people you provided advice and suggestions. The answers were very diverse and difficult to synthesise. Therefore, I paste them below, for other EvolDir members who might be interested. Of course, if some of you have further comments/advice, I'm still very interested in your experience and opinion!

My mail: Dear all,

I would like to ask for advice/suggestions about the long-term preservation of leaf material in silica gel (for molecular studies). We have quite abundant collections from worldwide field trips and wish to optimize the storage conditions for long-term preservation while simultaneously keeping this material available (easy to sample) for current research projects. To our knowledge, no real

data are available yet on this topic, and we would like to know what the experience of diverse people might suggest about:

- Temperature of conservation: -20°C , 4°C , or room temperature? -20°C could appear the best solution, but what about the condensation that will form on the samples when taking them out of the freezer to sample a piece of leaf? Are high temperatures ($30-35^{\circ}\text{C}$) detrimental to DNA preservation? - Is light to be strictly avoided for DNA preservation? - Bags, tubes, boxes? Although tubes with screw-caps may be optimal for DNA preservation, they are very space-consuming. Therefore, we are rather thinking of using hermetically-sealed bags (e.g. Minigrip). These bags should then probably be placed in airtight plastic containers such as Tupperware boxes.?? - Some people put the leaf material into an individual bag only after the leaf is dry. In this case, would you put silica gel in the bag? Or would a small amount of silica gel in the box containing several bags be enough?

In short, any suggestions on the long-term preservation of dry leaf material for DNA studies would be greatly appreciated! Thanks to all who could supply ideas.

Best regards, Myriam Gaudeul Department of Systematics & Evolution Muséum National d'Histoire Naturelle, Paris (France) gaudeul@mnhn.fr

From: jahodova@natur.cuni.cz
<mailto:jahodova@natur.cuni.cz>

I have quite a lot of samples stored in silica gel at a room temperature, that seemed to be OK when I used them within a couple of years from the collection. However, I have no experience with long term storage. I know some people prefer to keep their dried samples in -20°C , but I do not have facilities for all my samples at the moment. I suggest that the "strictness" of storage also depends on applications you are likely to use with your samples - as some are more demanding to DNA quality (such as AFLPs) than others (microsatellites, sequencing?). On some cases we have managed to use herbarium vouchers for AFLP (but not all samples tested worked though) - but I know some people use herbarium material quite regularly for microsats and/or sequencing. I prefer placing individual samples into a paper envelope/bag and then several of them (e.g. from one population/locality) into large re-sealable plastic bag with silica gel. The quality of such bag is a must - I prefer Ziploc heavy duty freezer bags. I've had a lots of problems with other bags (even from some laboratory suppliers) - that just were not airtight. So placing these bags into some airtight boxes would certainly be

a good idea. Best wishes, Sarka Jahodova

From: Nora.Scarcelli@manchester.ac.uk
<mailto:Nora.Scarcelli@manchester.ac.uk>

Bonjour,

je n'ai pas de solution miracle mais j'ai moi aussi ete amenee a stocker des feuilles seches. Ce n'était pas a proprement parler du long-terme puisque j'ai extrait l'ADN au bout de 6 mois mais peut etre que cela pourra etre utile.

J'ai commence par seche mes feuilles directement sur le terrain avec du silica gel. La methode n'a pas l'air tres scientifique mais elle marche bien : j'ai mis chaque echantillon dans un filtre a cafe, puis une dizaine d'echantillons dans un sac congelation a zip contenant du silica gel. J'ai ensuite renouvelle le silica gel aussi souvent que necessaire. Une fois rentree au labo j'ai stocke mes echantillons dans les memes sacs congelation, a raison de 30 a 50 filtres par sac, avec un fond de silica gel dans chaque sac pour maintenir mes echantillons au sec. Le tout en chambre froide (environs 4°C). Apres 6 mois j'ai ouvert tous les sacs et les filtres a cafe pour prendre un echantillon de feuilles et extraire l'ADN. Je n'ai pas de probleme avec cet ADN, ni a l'extraction, ni en PCR (microsatellites). Deux ans apres les sacs sont

— / —

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>

Loci for Migration analysis

I would like to post a general question to the readers of evoldir that deals with the choice of loci to use in an IM (Isolation with Migration) analysis.

Take this hypothetical example. Suppose one is concerned with a single fragmentation event. This event is marked by substantial mtDNA divergence resulting in reciprocal monophyly. Three additional nDNA loci are sequenced that differ in estimated mutation rates. Suppose nuclear locus A suggests some divergence between groups but is not reciprocally monophyletic, nuclear locus B shows some haplotype frequency differences between groups but is otherwise uninformative phyloge-

netically, and nuclear locus C shows very little variation and divergence, and therefore is not phylogenetically informative.

Should one use all four loci in an IM analysis or a subset of only the “informative” loci (In this hypothetical case, mtDNA, nuclear locus A, and possibly B)? Wouldn't the inclusion of uninformative data result in the inability of the program to identify the isolation model in the first place?

Any thoughts would be appreciated.

Please respond directly to me at gifford@biology2.wustl.edu

I will post a compilation of responses if there is interest.

Best,

Matt

Matthew E. Gifford Ph.D. Candidate Campus Box 1137 Department of Biology Washington University St. Louis, Missouri 63130 314.935.5302 (office) personal webpage: http://biology4.wustl.edu/larsonlab/people/Gifford/Matt's_webpage.html Larson lab webpage: <http://biology4.wustl.edu/larsonlab> gifford@biology2.wustl.edu gifford@biology2.wustl.edu

Loss of function

Dear EvoDir Colleagues,

I am looking for some examples (if any) that loss-of-function is frequent than gain-of-function, especially those cases with some molecular data involved.

What I aim is to illustrate that since the system leading to a complicated trait, for example fly wings, is such a complex, and there are many genes involved including organ identity genes, organ build up genes, transcription factors and many other regulatory elements. Therefore the loss of any of these components should be likely leading to loss of such trait. However, from no wings to owning wings, it becomes so difficult. This is because you have to specifically hit on the specific element in the complex system. The chance for gain-of-function, here ie. gain of wings, would be only 10% for example in a 10-components system. But the loss-of-function would be much more frequent and easier.

If you have (known) such examples, please don't hesitate to send me the related literatures. Any discussion would also be welcomed!

Your kind help would be highly appreciated!

Sincerely yours,

Jinyong

jinyong.hu@googlemail.com

Dr. Jinyong HU Dept. Mol. Plant Genetics Max-Planck-Institute for Plant Breeding Research Carl-von-Linne weg 10 Koeln 50829, Germany Tel: lab 0049-221-5062123 email: jinyong@mpiz-koeln.mpg.de or jinyong.hu@googlemail.com

jinyong hu <jinyong.hu@googlemail.com>

Loss of function answers

Dear Prof. Golding,

Thanks for your posting of my question. Here I send you the answers I got for past days. Would you please also paste it to all the evoldir colleagues? I think there should be some other colleagues also interested in this question.

In addition, I am still looking for further kind replys and answers/examples for my question. I do hope to find more information concerning it. Thanks are also given the colleagues for sharing the ideas and literatures.

Best Regards

Jinyong

jinyong.hu@googlemail.com

>>>>> “bull@bull.biosci.utexas.edu” Dear Jinyong,

Some years ago, Ric Charnov and I published a paper on the idea that some types of evolutionary pathways were difficult to reverse. The idea was similar to Dollo's law, and we discussed several examples. We did not mention molecular data, but such data might be attainable for some of those examples now.

Jim

Bull, J. J., and E. L. Charnov. 1985. On irreversible evolution. *Evolution* 39: 1149-1155

>>>>> Beverly Ajie <bcajie@gmail.com> Hello Jinyong,

I've passed your post along to a group I know thinking about relaxed selection and trait loss/loss of function on a theoretical level. They have been discussing just this issue and hopefully can provide some empirical examples for you.

I would be very interested to hear what examples you receive from the community as a whole. If its not too much trouble, would you mind passing them along to me or reposting them to the evoldir list?

Thank you and good luck,

Bev

Beverly Ajie Center for Population Biology University of California, Davis bcajie@ucdavis.edu

>>>>>jspagna@berkeley.edu “jspagna@berkeley.edu” Dear Dr. Hu, Please find attached my manuscript (to be published in Molecular Phylogenetics and Evolution, in the next 3-4 weeks or so) about the loss of function of a complex spider spinning organ: while this is a morphological feature, it is clearly lost more often than it has been gained (in fact, lost several times, and probably not regained) in spiders. The phylogeny is based on molecular data.

Good luck with your examples,

Dr. Joseph Spagna University of Illinois, Urbana-Champaign Urbana, Illinois 61801

>>>>>David Shuker <david.shuker@ed.ac.uk> Dear Jinyong,

Re. your Evoldir post. I am not sure if I have read your post correctly, but what you seem to be saying falls dangerously close to the fallacy of comparing the ease with which you can de-construct a trait (e.g. through loss of function mutations) with how hard it would seem to be to put together such a trait in its current form. But, of course, evolution does not work in the way envisaged by the latter. Complex traits do not just appear in some strangely well-developed way with a complex genetic architecture underlying them - when these traits start evolving, there is no “complex system” underlying them yet. So the problem you highlight does not really exist. For a far more detailed discussion of this kind of thing, read for example Mike Lynch’s account of the evolution of protein function (Lynch (2005) Protein Science 14: 2217-2225) and recent explanations for the evolution of bacterial flagella (apparently considered by ID proponents to be “impossible” to evolve because of its complexity). There has also been a recent PNAS supplement on this kind of thing I think. I’d read those.

Best wishes,

Dave Shuker

>>>>>Paul Sunnucks hi the sexual->asexual literature might be helpful. eg see attached Paul Dr Paul Sunnucks Senior Lecturer in Zoology Molecular Ecology Research Group and Australian Centre for Biodiversity: Analysis, Policy & Management School of Bio-

logical Sciences Monash University, Melbourne Clayton Campus 3800 Victoria Australia ph + 61 3 9905 9593 fax + 61 3 9905 5613

email paul.sunnucks@sci.monash.edu.au

webpage: <http://www.biolsci.monash.edu.au/staff/sunnucks/index.html> >>>>>naylor@scs.fsu.edu“

Dear Jinyong,

Your argument is interesting, but does not accommodate the fact that most architectures are highly redundant and robust. Life systems usually employ many-to-one (genotype to phenotype) mapping functions. Such architectures confound an experimenters capacity to unravell what is important and what is not. A large part of the configuration space may result in no effect on the phenoype whilst a few rare configurations may be highly sensitive to purturbation.

Best of luck with your project. It looks interesting!

Gavin Naylor

>>>>>>Juliette de Meaux <demeaux@mpiz-koeln.mpg.de> Hi Jinyong! May be you should look into the flavonoid literature (Zufall & Rausher). There are abundant examples of evolution by loss of function. In the papers I gave you yesterday, there is evolution by gain of function

— / —

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>

Mangrove EvolBiology

Dear all,

I am urgently looking for researchers working in in West African countries and in mangrove and/or tropical mud flat environments.

In particular, I am looking for people from one or more of these countries: Guinea Bissau, Guinea, Sierra Leone, Senegal, Liberia, and Angola.

Please help me! :-)

Best regards,

Gianluca Polgar

Gianluca Polgar Ph.D. candidate c/o Prof. G. Ardizzone Dipartimento di Biologia Animale e

dell'Uomo, V.le dell'Università $\frac{1}{2}$, 32 University of Rome "La Sapienza" 00185, Rome (Italy) tel. 348851198 / 0637518472 e-mail: polgar@alfanet.it gianluca.polgar@uniroma1.it website: <http://www.themudskipper.org> polgar@alfanet.it

Otoliths reading and DNA extraction

Dear Evodir members,

I was wondering if anyone has been combining old otolith DNA extraction with subsequent age/growth rate reading (embedded in epoxy, sectioned and stained, no burn & crack) on the same otolith. Most available studies and protocols aimed at extracting DNA without the need for further use of the otolith. However, in our project, we want to assess an individual's growth and age at maturation, as well as its neutral/adaptive genetic background. Unfortunately, one otolith was used already for rough age reading, so both techniques should be performed on the same otolith. Initial results using published and commercial kits yielded good DNA, but decalcified otoliths too much for good age reading afterwards (no clear nucleus visible for alignment and sectioning). I am thus looking for a method/tip yielding good DNA quality and leaving the otolith structure almost untouched.

Any help on this topic is very welcome !

Thanks already !

Gregory Maes (gregory.maes@bio.kuleuven.be)

Gregory Maes, Ph.D. Katholieke Universiteit Leuven Laboratory of Aquatic Ecology Fish Genetics Group Ch. de Beriotstraat, 32 B-3000 Leuven Belgium Phone: +32 16 32 39 66 (secretariat) or +32 16 32 42 96 Fax: +32 16 32 45 75 E-mail: gregory.maes@bio.kuleuven.be website: <http://www.kuleuven.ac.be/bio/eco/index.php> Gregory.Maes@bio.kuleuven.be

PhyloInference RAxML Web-Server

Dear Users of RAxML,

Jacques Rougemont (<http://www.vital-it.ch/vitalit->

staff.htm) and I (<http://icwww.epfl.ch/~stamatak>) have developed a prototype Web-Server for RAxML which is attached to a 200 CPU-cluster located at the Vital-IT unit of the Swiss Institute of Bioinformatics.

In order to provide the capability to carry out complete phylogenetic analyses, i.e. a relatively thorough search for the best-scoring ML tree and conduct 100 Bootstrap replicates I have developed a new rapid BS algorithm in RAxML specifically for this Web-Server. On average it is more than 12 times faster than the standard RAxML BS algorithm. Its scalability and accuracy has been tested on over 20 pretty diverse (Archaea, Bacteria, Plants, Viruses, Mammals) real-world datasets comprising 125 up to 7,764 sequences, both DNA/AA as well as plain models/partitioned models. The Pearson correlation coefficient between rapid and standard BS support values drawn on the best-scoring ML tree averages to about 0.97. In all but one case (0.91) which has very high average support of 95% and probably requires a different correlation coefficient, the correlation is > 0.95 . The weighted topological distance between the majority rule consensus trees of rapid and standard BS is below 0.06 in all cases and averages to about 0.04. A full analysis of the 500 Zilla dataset took about 5.2 hours to complete on a single CPU. You might have a look at the respective result page which will be available until Thursday August 30: <http://phylobench.vital-it.ch/raxml-bb/index.php?jid=147937>

The RAxML Web-Server implementation offers some new features such as separate per-Gene branch length estimates, and an estimate of the proportion of invariable sites (despite the fact that I don't like GAMMA+P-Invar, but that is a different story). The source-code release of this RAxML version and an up-to-date manual will become available later-on this year.

We would thus like to invite you all to help us with testing this web-server which can be accessed via <http://phylobench.vital-it.ch/raxml-bb/>. Furthermore, we would like to ask you to spread the word to colleagues that might be interested in using it, especially to those who are notorious Windows users or do not have access to HPC facilities.

Please note that, currently execution times are limited to 24 hours, but this will soon change (probably next week). This means that you can analyze single-gene alignments up to 1,000 to 1,500 sequences at present.

Also note, that the email notification service that the job has been completed, does currently not work due to those typical technical problems that take up 90% of our time in CS. You will thus have to bookmark the JOB ID page as outlined in the example above (<http://phylobench.vital-it.ch/raxml-bb/>-

index.php?jid=147937).

Please send any comments, suggestions, and error reports to Jacques.Rougemont@isb-sib.ch and Alexandros.Stamatakis@epfl.ch

Many thanks for your help,

Alexis

– Dr. Alexandros Stamatakis

Postdoctoral Researcher High Performance Computing Bioinformatics

Swiss Federal Institute of Technology School of Computer & Communication Sciences Laboratory for Computational Biology and Bioinformatics (LCBB) STATION 14 CH-1015 Lausanne, Switzerland

Tel: +41 21 69 31392 (Office) +41 22 54 80003 (SkypeIn) +41 796115849 (Mobile) Skype: stamatak Email: Alexandros.Stamatakis@epfl.ch WWW: icwww.epfl.ch/~stamatak

Alexandros Stamatakis <Alexandros.Stamatakis@epfl.ch>

Software IDEA

Dear EvolDir Members,

This is to announce the release of IDEA (Interactive Display for Evolutionary Analyses), which is now available for download from sourceforge (<http://ideanalyses.sourceforge.net>). Briefly, IDEA provides a graphic user interface (GUI) to launch PAML's codeml and baseml analyses, and another GUI to view and explore the results (more complete description below). Screenshots are available at the sourceforge site.

IDEA is currently configured to run on Unix/Linux platforms, and can take advantage of a computer grid. Full MacOS X will be supported in the next release. In order to run IDEA successfully you need to have PAML, PHYLIP and a few other programs installed in your machine (see System Requirements). A few more will come bundled with IDEA.

Bug reports/comments are welcome and can be directed to the IDEA project discussion page on sourceforge (http://sourceforge.net/forum/forum.php?forum_id=3D706804).

Cheers, Joana

Joana C. Silva, Ph.D. Assistant Investigator

The Institute for Genomic Research 9712 Medical Cen-

ter Drive Rockville MD 20850

jsilva@tigr.org voice:301.795.7896 fax:301.838.0208 website: http://www.tigr.org/faculty/Silva_Joana/ IDEA (Interactive Display for Evolutionary Analyses) is a graphical interface for PAML (Yang, Z., 1997), a popular package for conducting molecular evolution analyses on phylogenies and associated sequences. IDEA's graphic user interface (GUI) can be divided into two main components: one for inputting data and parameters for the evolutionary analysis using PAML's baseml or codeml and another for displaying and exploring results. Parameters specific to IDEA include options to reconstruct a phylogenetic tree using PHYLIP (Felsenstein 2005), to perform multiple runs of codeml with different starting values for w (the ratio of non-synonymous to synonymous substitution rates, dN/dS , which is a measure of selective pressure) and to merge the results of those runs into a single output file containing only the results for the run with the highest likelihood score. IDEA's output GUI centers around a table listing, for each dataset, the number of sequences, the set of evolution models tested and their associated likelihood score, tree length, w value and transition-to-transversion rate ratio. In the case of pairwise comparisons, dN and dS values are also displayed. The result of likelihood ratio tests (LRT) of nested evolutionary models are shown. Columns may be sorted and filtered according to several criteria, and the distribution of numeric variables can be displayed in histograms. Two additional panels are presented in the output GUI: one displays the phylogram associated with each dataset, and the other allows the user to visualize variations in w along a gene, in a scrolling window. IDEA is currently configured to run on Unix/Linux platforms. When a computing grid is available, IDEA can process multiple datasets simultaneously, for speed of execution.

jsilva@jcv.org

Software Ngila 1.2.1

Ngila is a global, pairwise alignment program that uses logarithmic and affine gap costs, i.e. $C(g) = a + b * g + c * \ln(g)$. These gap costs are more biologically realistic than the more popular (and efficient) affine gap cost model.

I have recently completed updating the program to version 1.2.1. The new version includes two new, evo-

lutionary alignment models based on my current research. These models allow you to find the maximum alignment of two sequences based on biological, evolutionary parameters—no more guessing at biological costs. Additional changes are noted on the website.

Website & Manual:

<http://scit.us/projects/ngila/> Windows Binary:

<http://scit.us/projects/files/ngila/Releases/ngila-release-win32.zip> Unix/Mac Source Code:

<http://scit.us/projects/files/ngila/Releases/ngila-release.tar.gz> I'll be happy to answer any questions users have about the new models or the program.

–

Reed A. Cartwright, PhD <http://scit.us/> Postdoctoral Researcher <http://www.dererumnatura.us/> Department of Genetics <http://www.pandasthumb.org/> Bioinformatics Research Center North Carolina State University Campus Box 7566 Raleigh, NC 27695-7566

racartwr@ncsu.edu racartwr@ncsu.edu

Taxonomy collaboration websites

Dear Colleagues,

You may have seen in the latest EDIT newsletter <http://www.e-taxonomy.eu/news.php?optimurl=Newsletter-4> an article describing 'Scratchpads'. These are web sites that EDIT are making available to foster collaboration between taxonomists. More than twenty communities are already using their Scratchpad to share, manage and integrate taxonomic data on the web.

Would you please advertise and encourage people in your institution to take advantage of these sites, either by collaborating with an existing site or by starting a new one. A little technical skill is required to manage a site, but we provide an extensive collection of videos to help users get started <http://www.editwebrevisions.info/help>).

The system to support these sites is based at the Nat-

ural History Museum in London, but site content is owned and managed by the communities that created them. The NHML will support the server for the foreseeable future, certainly beyond the life of the EDIT project itself.

To learn more, direct your colleagues to: <http://www.editwebrevisions.info/scratchpads> Take a look at the current sites: <http://www.editwebrevisions.info/SiteList> Or try a demonstration: <http://sandbox.editwebrevisions.info/> Cheers, Dave Roberts

Dr D.McL. Roberts, Tel: +44 (0)20 7942 5086 European Distributed Institute of Taxonomy Project, Cordinator WorkPackage 6 (Unifying Revisionary Taxonomy), Dept. Zoology, The Natural History Museum, Cromwell Road, London SW7 5BD Great Britain Email: dmr@nomenclator.org Web page: <http://www.editwebrevisions.info/> Web page: <http://www.e-taxonomy.eu/> Dave Roberts <workpackage6@googlemail.com>

WildGrape DNAextraction

Hi, I'm a graduate student who's been trying to extract clean DNA from silica-dried material of the wild grape species *Vitis aestivalis* (native to North America) for two months. I have tried Viogene and Qiagen kits, and CTAB extractions with the addition of PVP 40, beta mercaptoethanol, proteinase K, chloroform:IAA and phenol steps. I get a fair amount of DNA on a gel using CTAB, but nothing is amplifying with universal chloroplast primers, even with very low DNA concentrations. I have no problem getting amplification using cultivated accessions (*V. vinifera*). The secondary compounds that are giving me problems, according to the grape literature, are polysaccharides, polyphenols, and possible tannins. Has anyone else had this problem with grapes or a similar tough species, and do you have any suggestions? Thanks, Kate Waselkov Ph.D. Candidate Evolution, Ecology, and Population Biology Program Washington University in St. Louis kewaselk@artsci.wustl.edu

PostDocs

AdelaideU 2 AncientDNA	58	UChicago Genomics	70
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Berkeley SystemsBiol	59	UFlorida EvolGenetics	71
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SanFranciscoStateU AvianInfectiousDiseases	66	USussex SocialWasps	76
TexasAMU EvolOfMutualism	67	UTennessee Bioinformatics	76
UAustral de Chile 3 EvolBiol	67	UUtah EvolImmunology	77
UBath EvolEcol	67	UZurich EvolGenetics	77
UCBerkeley SocialInsectEvol	68	Umich Primate SexualSelection	78
UCLondon YeastSpeciation	68	UtahU PlantMammal Interactions	79
UCLondon YeastSpeciationSalaryAmended	69	Vienna MHC Genetics	79
UCaliforniaDavis 2 TreeGenomics	70	YaleU EvolFuncGenomics	80
UCaliforniaIrvine EvolInfectiousDisease	70		

AdelaideU 2 AncientDNA

Two positions are available at the Australian Centre for Ancient DNA, Adelaide University (www.adelaide.edu.au/acad)

Postdoc: Genetic studies of megafaunal extinctions across the Southern Hemisphere

The Australian Centre for Ancient DNA (ACAD) has an Australian Research Council-funded project to investigate the genetic impacts and relative roles of climate change and human colonisation on megafaunal species and subsequent extinction events across the Southern Hemisphere. This position will involve collecting megafaunal remains from caves and museums in South America, New Zealand and Australia as well as rigorous ancient DNA laboratory techniques and large scale population genetic analyses to study demographic and phylogeographic histories. A PhD student is associated with the project and co-supervision will be part of the role.

A PhD or equivalent experience in a relevant discipline (ancient DNA, zoology, population genetics, palaeo-

ecology, or archaeology) is required, along with a background in ancient DNA or similar analytical skills in molecular biology, and a keen interest in natural history and evolution. Excellent written and oral communication skills, and the ability to liaise, collaborate and interact with a large international team of researchers will be important, along with experience with advanced computational phylogenetic packages.

The salary will be in the range of (Level B) Aus \$64,757-76,900 pa, with an employer superannuation contribution of 9%, and is available immediately for a period of 2 years. <http://www.adelaide.edu.au/jobs/current/-11085/> Technician: Commonwealth Environment Research Facilities (CERF) funded research position into endemic small mammals: Biodiversity, taxonomy and extinction processes.

A 2-year CERF-funded research assistant (technician grade) position is available at the Australian Centre for Ancient DNA (ACAD) on a project to study small mammal biodiversity, taxonomy and extinction processes using historical museum specimens and cave preserved subfossil remains. This study is part of a larger project involving Prof Steve Donnellan (South Australian Museum), and Dr Ken Aplin (Project leader, ANU/CSIRO) analysing biodiversity of endemic small vertebrates, past and present. The ACAD project aims

to fundamentally redesign current approaches to assessing biodiversity in the past, and to analysing the causes of changes in biodiversity, as well as providing a solid taxonomic framework for extinct and extant Australian small mammals, including the detection of cryptic species that may still survive. The technical work will involve ancient DNA extraction and sequencing, and computational analyses. There is a strong potential for a suitable applicant to be involved in publications, and an ability and willingness to assist with technical training of postgraduate students would be helpful. A highly motivated person is required, with strong scientific background in evolution, population genetics and molecular biological laboratory work, and a demonstrated capacity for initiative and independent thinking.

Salary: HEO 4 \$42,325 - \$46,555 pa, with an employer superannuation contribution of 9%. To obtain the selection criteria or further information, please contact Ms Maria Lekis, maria.lekis@adelaide.edu.au –

Prof. Alan Cooper, Federation Fellow

Darling Blg (DP 418), Rm 209b University of Adelaide
North Terrace Campus South Australia 5005 Australia

Email: alan.cooper@adelaide.edu.au Ph: 61-8 -8303-5950/3952 Fax: 61-8-8303 4364

<http://www.ees.adelaide.edu.au/acad/>
alan.cooper@adelaide.edu.au

ArizonaStateU EvolBioinformatics

Applications are invited for multiple postdoctoral positions in the Evolutionary Bioinformatics and Computational Biology laboratory of Dr. Sudhir Kumar at the Arizona State University. Selected candidates will have opportunities to conduct pioneering fundamental research and development in one or more areas, including (1) computer simulations in Molecular Phylogenetics, (2) Comparative Sequence Analysis to establish evolutionary timescales of genomes, (3) Computational Evolutionary Analysis of in situ gene expression patterns, and (4) development of methods for analysis of very large-scale sequence and gene expression data sets. A list of publications from the laboratory can be found at <http://www.kumarlab.net/publications>, and interested individuals may find it useful to visit our software (<http://www.megasoftware.net>) and database (<http://www.flyexpress.net>) websites for additional in-

formation.

Candidates with a Ph.D. in Biology or Bioinformatics (or a related discipline) who have completed their degrees within the last two years (or who are anticipating completion by December 2007) are desired. Applicants must submit (1) a cover letter indicating area of expertise, (2) a complete curriculum vitae, (3) a one-page research statement, (4) PDF files of at least two reprints (published or submitted) of the most important papers, and (5) the names and addresses of two references (including e-mail and phone numbers) to Sudhir Kumar by e-mail (S.KUMAR@ASU.EDU). Application review will begin September 15, 2007, and will continue until all the positions are filled.

Sudhir Kumar, Ph. D., Professor, School of Life Sciences Director, Ctr. for Evol. Func. Genomics The Biodesign Institute (A240) Arizona State University Tempe, AZ 85287-5301 Phone: 480-727-6949

Berkeley SystemsBiol

University of California, Berkeley Department of Integrative Biology

Post-doctoral Scientist Systems Biology

A postdoctoral position is available in the Lim laboratory to examine the design features of genetic switches and circuits. We are particularly interested in how their properties and architecture have evolved to aid bacterial pathogenesis. The project would to some degree depend on the applicant's interests and abilities, although it is expected to primarily involve quantitative experiments using molecular and cellular biology techniques. This work will be performed in partnership with the labs of Associate Professor Adam Arkin in the Department of Bioengineering and Professor Lee Riley in the Department of Public Health at UC Berkeley. A Ph.D. is required in molecular and cellular biology, bioengineering, biophysics, biochemistry or related fields. Further information about research in the Lim lab is available at: <http://ib.berkeley.edu/labs/lim/> The appointment will be for 12 months with the possibility for renewal. The annual salary range for this position will be commensurate with experience. The position is available immediately and applications will be reviewed until the position is filled. The University of California, Berkeley is an Equal Opportunity Employer. Please email a letter explaining your interest/qualifications for the position, a curriculum vitae and the contact infor-

mation for three referees to: Dr. Han Lim, Assistant Professor, LimLab@berkeley.edu

limlab@berkeley.edu limlab@berkeley.edu

CITI Portugal Bioinformatics

Dear Colleagues,

We would be grateful if you could disseminate the following announcement of a call for post docs (related to Grid Computing for BioInformatics, and Concurrency and Parallelism in BioInformatics) to potential candidates.

Thanks and regards, Jose C. Cunha

Post Docs Positions Open at CITI- Centre for Informatics and IT - FCT/UNL <http://citi.di.fct.unl.pt>
- Job/Fellowship Reference: C2007-418-CITI-2 Grid Computing for BioInformatics <http://www.eracareers.pt/opportunities/index.aspx?task=-3Dglobal&jobId=3D6298>

- Job/Fellowship Reference: C2007-418-CITI-1 Concurrency and Parallelism in BioInformatics <http://www.eracareers.pt/opportunities/index.aspx?task=-3Dglobal&jobId=3D6296>

Detailed descriptions of the calls are presented below.

Post Docs Positions Open at CITI- Centre for Informatics and IT - FCT/UNL <http://citi.di.fct.unl.pt>
Job/Fellowship Reference: C2007-418-CITI-2 Grid Computing for BioInformatics <http://www.eracareers.pt/opportunities/index.aspx?task=-3Dglobal&jobId=3D6298>

Applications are sought for RESEARCHER positions for the area of Grid Computing Models and Environments, and to exploit its relationships with BioInformatics. It involves work on the design and analysis of methods, algorithms and software for Grid Computing, and their application to enable large-scale and complex simulations involving interactive visualization and computational steering, with access to remote and massive data repositories, namely in BioInformatics Grids. Important dimensions of this research include the development of distributed grid computing models, software environments and tools for complex problem-solving, and their application for large-scale and collaborative BioInformatics grids. Successful candidates will join the research groups of the CITI centre, and conduct joint research in the context of interdisciplinary collab-

orations to exploit the relationships between Computer and Information Sciences and Life Sciences.

More information about the CITI - Centre for Informatics and IT, a research unit of the Departamento de Informatica, Universidade Nova de Lisboa, may be found in the CITI web site <http://citi.di.fct.unl.pt> Any candidate must have a post-doctorate experience of at least 3 years, be knowledgeable in Computer Science in general, and have relevant research experience in Grid Computing models, tools and environments, their operation and application. Successful candidates must have competence particularly in fields like High Performance, Cluster and Grid Computing, Parallel and Distributed Programming and Algorithms, and exposure to global computing environments, network-centric systems, clusters and grids. Applicants with a strong Computer Science background will have priority.

Please send detailed CV and two reference letters before 31 August 2007 to:

Prof. José C. Cunha CITI-Centre for Informatics and IT Faculdade de Ciencias e Tecnologia Universidade Nova de Lisboa 2829-516 Caparica Portugal e-mail: jcc@di.fct.unl.pt tel: +351 212948536 fax: +351 212948541

jcc@di.fct.unl.pt

CSIRO GeneFlow in Rivers

We require a Postdoctoral Fellow to join a highly motivate, multidisciplinary team undertaking research on riparian vegetation within the Murray Darling Basin. This position is offered under the CSIRO Water for a Healthy Country Flagship which delivers multidisciplinary research into the sustainable management of Australia's water resources. The successful candidate will be a member of the Murray-Darling Waterways Restoration Project, and will conduct detailed research into gene flow and propagule dynamics of riparian species at key icon sites on the Murray River.

The position requires a highly motivated and enquiring individual with a background in molecular ecology or landscape genetics who is capable of working under minimal supervision. It will involve the development and application of molecular markers to track gene flow and propagule movement of riparian species and use this data to model potential dynamics under various flooding regimes. The project will involve some

intensive field work in central Victoria and collaboration with other researchers involved in related projects. A strong background in molecular marker development is essential while experience with riparian or invasive species is considered highly desirable. The applicant should also be able to demonstrate an ability to work under minimal supervision, strong organisational skills and a strong capacity to contribute effectively in a team environment.

This position is offered for 2.5 years.

Further information can be accessed at http://recruitment.csiro.au/asp/Job_Details.asp?RefNo=2007%2F729 or by contacting Dr Linda Broadhurst (Linda.Broadhurst@csiro.au) directly.

Dr Linda Broadhurst

Group Leader Biodiversity and Sustainable Production Program CSIRO Plant Industry PO Box 1600 Canberra ACT 2600 www.csiro.au/people/Linda.Broadhurst
Phone +61 2 6246 4988 Fax +61 2 6246 5000 Mobile 0428 550 692

Linda.Broadhurst@csiro.au

CornellU MarineSpatialEvol

A postdoctoral position in marine spatial evolutionary ecology is available in the laboratory of Dr. Matthew Hare, Department of Natural Resources, Cornell University, Ithaca, NY.

Research Project: A postdoctoral position is available to investigate postsettlement selection and dispersal in eastern oysters, *Crassostrea virginica*, among Florida's Atlantic coast lagoons. This NSF-funded project integrates measures of postsettlement selection, genetic inferences of larval dispersal and tests of differential fertilization success to analyze the mechanisms shaping population heterogeneity along the latitudinal ecotone in eastern Florida. The successful candidate will conduct field experiments aimed at understanding the effects of spatially and temporally varying selection on oyster growth rate, rate of sexual maturation, parasite infection intensity, survivorship, etc. The successful candidate will manage these field efforts and be responsible for related data analyses and publications. Development of related projects is encouraged.

Background: For benthic marine invertebrates living in a matrix of spatially heterogeneous habitat, population

connectivity via larval dispersal and post-settlement selection both determine population persistence and the scale of local adaptation. The interplay of these processes is particularly evident at biogeographic province boundaries where many species reach their range limits. The eastern oyster, an ecologically and commercially important reef-building species, is broadly distributed across a major province boundary in Florida and shows a sharp step cline coincident with the boundary at some loci. Thus, this species provides a unique opportunity, provided by latitudinal genetic differentiation, to genetically identify migrants, determine larval dispersal patterns, and measure relative performance of locals, migrants and hybrids through a strong ecotone. Observed dispersal patterns will be compared to expected larval advection routes to infer extrinsic dispersal barriers and transport pathways. Spatially heterogeneous patterns of selection can then be interpreted in light of asymmetrical dispersal to explore the interplay of mechanisms maintaining the oyster step cline and identify range constricting processes that might be general enough across species to produce a biogeographic province 'break'.

Requirements: The desired candidate will possess experience with the design and analysis of experiments to measure selection in natural populations. Some knowledge of estuarine systems, bivalve mollusks or invertebrate physiological ecology is desired. Familiarity with or skill at microevolutionary modeling also would be beneficial. Experience with molecular biological techniques (such as DNA/RNA extraction, PCR, AFLP analysis, RFLP genotyping) is not required but would be an asset.

Cornell and Ithaca: Cornell University provides a highly stimulating environment with a cross-disciplinary approach to the study of evolutionary biology, providing a rich academic environment for those interested in the interface of ecology and evolution. Cornell is located in Ithaca, NY, the cultural center of the scenic Finger Lakes region of central New York, which is known for its spectacular gorges and waterfalls, lake-side wineries, and rolling farmland. Ithaca has been called the "best emerging city" in the US (Cities Ranked and Rated, 2004). It is about a 4-hour drive from New York City.

Apply: The position is available immediately. It is funded for two years, renewable annually based on performance. To apply, please send a c.v., statement of research interests, and the email addresses of three references to Dr. Matt Hare (mph75@cornell.edu). More information on research in the Hare lab is currently available at <http://www.life.umd.edu/biology/faculty/hare/index.html> mph75@cornell.edu

mph75@cornell.edu

Harvard Butterfly Evolution

Harvard University

FAS Center for Systems Biology

A postdoctoral position is available immediately to work with Marcus Kronforst on the evolution, genetics, and development of wing color pattern and mating preference in butterflies. Specifically, the current work of the lab revolves around identifying the genetic basis of adaptive color pattern diversification and corresponding color-based mate preference in *Heliconius* butterflies and elucidating the mechanisms by which the developmental process translates this DNA sequence variation into morphological and behavioral variation.

The research will require work in a variety of areas; from rearing butterflies and performing behavioral experiments to molecular genetics techniques such as PCR, high-throughput DNA sequencing & genotyping, analyses of gene expression (RNA extraction, real-time PCR, in situ hybridization), and cDNA library construction & EST sequencing. Field work in Costa Rica, Panama, and Ecuador is also possible. Motivated individuals will have the opportunity to focus research on areas of particular interest and develop additional projects on related questions. We offer competitive salary and benefits, state-of-the art facilities and a stimulating multidisciplinary environment.

To apply, send a CV, a description of research interests and experience, and the names, addresses, phone numbers, and e-mail addresses of three references to Marcus Kronforst at mkronforst@cgr.harvard.edu or at this address: FAS Center for Systems Biology, Harvard University, 7 Divinity Avenue, Cambridge MA 02138, USA

For more information about Harvard's FAS Center for Systems Biology please see: <http://sysbio.harvard.edu/csb/index.html>

Marcus R. Kronforst FAS Center for Systems Biology
Harvard University 7 Divinity Avenue Cambridge, MA
02138, USA Phone: 617-384-7631 Fax: 617-495-2196

mkronforst@cgr.harvard.edu
forst@cgr.harvard.edu

mkronforst@cgr.harvard.edu

MNH Chicago 3 Biodiversity Informatics

Postdoctoral / Bioinformatics Positions

Phylogenetics, Biodiversity, Taxonomy, Informatics

Multiple opportunities are available for postdoctoral scholars or bioinformatics experts at other career levels to join the Biodiversity Synthesis Center, part of the Encyclopedia of Life Project, funded by the John D. and Catherine T. MacArthur Foundation. This program is an international effort to advance biodiversity science associated with the EOL, being coordinated by the Field Museum of Natural History, in Chicago, Illinois. The Biodiversity Synthesis Center will play three major roles in the Encyclopedia of Life: (a) accelerate the pace of scientific discovery in biodiversity and evolution by using the power of bioinformatics and the EOL to answer large-scale questions; (b) provide a central location for scientific working groups to convene and explore synthetic biodiversity analyses involving the EOL; and (c) support the growth of EOL content and cross-disciplinary use of the EOL for scientific purposes.

Candidates should have a strong background in biodiversity science, in the areas of phylogenetics, biogeography, computer science, bioinformatics, taxonomy of megadiverse and understudied species groups and/or conservation biology. Positions require participation in Encyclopedia of Life and Synthesis Center programs, with particular emphasis on building working groups and promoting synthesis of ideas. In addition, the analysis of biodiversity data sets as flagship examples of the use of phylogenetics and bioinformatics in the context of the EOL is encouraged.

Positions are full time appointments, two years in duration, with possibility for renewal. Salary is in the range of \$35-45,000, depending on experience, with the opportunity for obtaining grant supplement to the base salary. Applications are currently being accepted, with target dates for review on the first day of each month, with review beginning Sept. 1, 2007 until positions are filled. Start date negotiable, preferably in 2007. Application materials include CV, cover letter of application detailing interest and qualifications, and names of three references. Please apply by email attachment or request additional information by contacting Mark Westneat (mwestneat@fieldmuseum.org).

We currently have 3 openings:

Phylogenetics and Visualization of the Tree of Life
This position will contribute to the incorporation of phylogenetic information into the Encyclopedia of Life (EoL), including coordination of synthesis groups on phyloinformatics, and helping working groups to develop phyloinformatics databases and new methods for the organization and visualization of the Tree of Life. Responsibilities: (a) Organization of, participation in, and preparation of reports from phylogenetics synthesis meetings, (b) Communication and networking with other phylogenetics and informatics groups, projects and organizations in the US and abroad, (c) Exploration and analysis of example datasets in phyloinformatics, (d) Development of phyloinformatics databases and/or new approaches to the visualization of phylogenetic trees for implementation in the EoL, (e) Collaborative grant writing, publication and other efforts that involve the EoL. Qualifications include: PhD in a relevant scientific field such as biology or evolution; previous experience in phylogenetic methods; excellent organizational skills and attention to detail; computer programming and/or database experience; interest in group leadership and synthesis of ideas from multiple disciplines.

Biogeography and Integrative Biodiversity Mapping
This position will contribute to the incorporation of biogeographic information into the Encyclopedia of Life (EoL), including coordination of synthesis groups on biogeography and working with synthesis groups on the development of methods for the mapping and illustration of biodiversity data.

Responsibilities: (a) Organization of, participation in, and preparation of reports from synthesis meetings on biogeography, (b) Communication with biogeography colleagues and relevant informatics groups, projects and organizations in the US and abroad, (c) Exploration and illustration of species distributions at multiple scales-regional, continental, oceanic, and global (d) Synthesis of multiple databases for addressing biogeographic questions, including georeferenced specimen collections, geological databases, and meteorological data, (e) Exploration and analysis of example datasets in biogeography and range mapping that employ the EoL and highlight its utility, (f) Collaborative grant writing, publication and other efforts that involve the EoL. Qualifications include: PhD in a relevant scientific field such as biology or evolution; previous experience in biogeography, mapping applications such as GIS; excellent organizational skills and attention to detail; computer programming and/or database experience;

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Marseille PopGenetics

Post-doc fellowship: Meta-analysis of population genetic and phylogeographic data of several European marine species.

Key words: comparative phylogeography ? coalescence theory ? vicariance ? dispersion - refugia Institutional Context : consortium ?GBIRM? (Genetic biodiversity Responsive Mode Project) of the European Network of Excellence MARBEF (Marine biodiversity and ecosystem functioning). <<http://www.com.univ-mrs.fr/-DIMAR/GBIRM/GBIRM%20activity.htm>> Duration : 1 year Starting Date : between 1/10/2007 and 1/01/2008. Main location : laboratoire DIMAR - (Marseille-France)

Context: The GBIRM project joins several European research teams involved in population genetics and phylogeography of marine organisms (macrophytes, fish and invertebrates). The main scientific goal of the project is to jointly analyse population genetic data from numerous marine species in common geographic areas, in order to reveal common patterns of the geographic distribution of genetic diversity, and to identify how life history traits (e.g. presence/absence of a dispersal phase) affect these patterns. Very few theoretical tools are available for hypotheses testing in the field of comparative phylogeography (e.g. Hickerson et al 2006, worked on testing a common vicariance hypothesis for a group of species). However, the recent development of coalescent methods may allow to test more general hypotheses, such as for example the hypothesis that a given permeable barrier (e.g. the Gibraltar strait) originated at the same date for a group of species. Additional methods may be suggested by the candidate.

Tasks: The members of GBIRM decided to hire a post-doc who should provide an added value in the joint analysis of our data sets : he would apply (eventually develop) analytical methods allowing hypothesis testing in the field of comparative phylogeography. The goal of the post-doc is to analyse this multi-specific dataset in a comparative way. The main questions will be the estimations of gene flow and divergence dates across

key transition zones ? The post-doc will communicate his results in several meetings, some already planned: in Crete (Greece) in June 2008 to present the results and in an international congress in Valencia (Spain).

Profile: The ideal candidate should have a strong background in genetic data analyses, specially using coalescent theory, and ideally programming skills. The candidate should be autonomous for the theoretical aspect.

Contact : Anne Chenuil - Email : anne.chenuil-maurel@univmed.fr ? Tel : +33-(0)4941041617

Anne CHENUIL-MAUREL <anne.chenuil-maurel@univmed.fr>

OklahomaStateU PlantEvol

Postdoctoral Research Associate, Plant Evolutionary Genetics

Department of Botany

A postdoctoral position is available immediately in the laboratory of Dr Andrew Doust at Oklahoma State University, to continue work on the molecular biology and genetics of domestication in grasses [Ann. Bot. 2007 [May 3, epub ahead of print]; Genetics 2005, 169:1659-1672; PNAS 2004, 101:9045-9050). The focus will be on genotyping and QTL analysis of recombinant inbred lines of a cross between foxtail and green millet (*Setaria italica* x *S. viridis*), in order to elucidate the genetic and molecular basis of vegetative branching. Further goals include RT-PCR and in-situ analysis of candidate genes. The long-term goal of this research is to understand changes during domestication in the context of phylogeny, so other areas of research in the lab are concentrating on branching in other grass species. A Ph.D. and demonstrated expertise in plant molecular, developmental and quantitative genetics is required. Previous research experience in grasses and experience with RNA in-situ hybridization techniques is preferred but not required. This is a key position in a newly established lab, so independence and good organizational ability is desirable. The preferred starting date is October 1, 2007. Applications will continue to be reviewed until the position is filled. Funding is available for at least 2 years. OSU is part of a pleasant academic community with a strong and expanding interdisciplinary program in molecular plant biology. Oklahoma State University is an equal opportunity, affirmative action employer committed to multicultural diversity. Women

and minorities are encouraged to apply.

For additional information please contact:

Dr Andrew Doust Phone: (405) 744 9559 Email: andrew.doust@okstate.edu

- Dr Andrew Doust Botany Department Oklahoma State University Life Sciences East 009 (405) 744-9559 phone (405) 744-7074 fax

andrew.doust@okstate.edu andrew.doust@okstate.edu

OregonStateU SalmonGenetics

RESEARCH ASSOCIATE-POST DOCTORAL The Coastal Oregon Marine Experiment Station at the Hatfield Marine Science Center in Newport, OR invites applications for a Research Associate (Post Doctoral) for the Marine Fisheries Genetics Laboratory (<http://www.oregonstate.edu/dept/comes/genetics/>). This is a full-time, 12-month, fixed-term position with reappointments at the discretion of the supervisor. The post doctorate researcher described here will be part of a larger research team working on a project funded by Environmental Services, California Department of Water Resources under the title "Testing Clock Genes, SNPs and Microsatellites for Population Identification among Central Valley Chinook and Verifying Genetic Transmission of Seasonal Run Time Differences on the Feather River." Primary responsibilities of the post are as follows: 1. Research clock gene marker information content as well as technological means for efficient provision of statistical power to resolve pedigree relationships and run-timing markers and trait transmission across generations in Chinook. 2. Apply the best bank of these markers to resolve origin, relationships, relative fitness, etc. among samples. Primary expectations are four-fold: 1) effective research planning, 2) innovative research and data gathering, 3) analysis including development of novel methods, 4) effective synthesis of findings through preparation and publication in strong peer review journals. General support towards academic, research and scholarly advancement in the Marine Fisheries Genetics Program and in association with the Oregon Hatchery Research Center are also required. OSU is one of only two American universities to hold the Land-, Sea-, Sun- and Space Grant designations and is the only Oregon institution recognized for its "very high research activity" (RU/VH) by the Carnegie Foundation for the Advancement of Teaching. OSU is comprised of 11 academic colleges

with strengths in natural resources, earth dynamics and sustainability, life sciences. OSU has facilities and/or programs in every county in the state, including 12 regional experiment stations, 41 county extension offices, a branch campus in Bend, a major marine science center in Newport, and a range of programs and facilities in Portland. OSU is Oregon's largest public research university, conducting more than 60 percent of the research funded throughout the state's university system.

The Coastal Oregon Marine Experiment Station is located at the Hatfield Marine Science Center in Newport, which is 55 miles west of Corvallis. Approximately 15,600 undergraduate and 3,400 graduate students are enrolled at OSU, including 2,600 U.S. students of color and 1,100 international students. The university has an institution-wide commitment to diversity and multiculturalism, and provides a welcoming atmosphere with unique professional opportunities for leaders who are women and people of color. All are encouraged to apply. Salary: Salary commensurate with qualifications, education and experience.

Required qualifications: 1) a PhD in genetics, ecology, evolution or related field with emphasis in statistics, 2) molecular genetics experience in genomics research, PCR, microsatellite characterization, 3) training or experience with population and quantitative genetics analysis, 4) training or experience in bioinformatics, 5) demonstrated publication record in peer review journals and 6) demonstrated effective research in a multi-user molecular genetics lab.

Preferred qualifications: 1) familiarity with salmonid hatchery practice and management, experience desired, 2) an effective presentation with professional demeanor and 3) a demonstrable commitment to promoting and enhancing diversity. To review posting and apply, go to <http://oregonstate.edu/jobs>, posting number 0001304. Closing date: August 31, 2007. Oregon State University is an AA/EOE and has a policy of being responsive to the needs of dual-career couples.

From: Michael A. Banks Director, Cooperative Institute for Marine Resource Studies Associate Professor, Marine Fisheries Genetics Coastal Oregon Marine Experiment Station Hatfield Marine Science Center Dept. Fisheries and Wildlife, Oregon State University 2030 SE Marine Science drive Newport OR 97365-5229 Phone: 541-867-0420 Fax: 541-867-0345 <http://marineresearch.oregonstate.edu/genetics/index.html> <http://oregonstate.edu/groups/cimrs/>

michael.banks@oregonstate.edu

RoyalZooSoc Antwerp AmphibianConserv

Postdoc position amphibian conservation research at the Royal Zoological Society of Antwerp

The Centre for Research and Conservation (CRC) of the Royal Zoological Society of Antwerp (RZSA) seeks to employ an amphibian conservation scientist who will be involved in setting up a largely ex situ based research program on amphibians. The CRC is the government-funded research department of the Royal Zoological Society of Antwerp (RZSA) and is active both within the society's grounds (Antwerp Zoo, Wild Animal Park Planckendael, and its local wetland nature reserve De Zegge), in its own field-based conservation projects in Cameroon and Brazil, and as a research partner in various other conservation projects with an in situ component. Performing scientific research helps the RZSA accomplish its mission to contribute to worldwide nature conservation and education through scientific research.

The RZSA has a two-year postdoc position available to help establish a research program on endangered amphibians and provide advice towards starting conservation breeding programs for amphibians ex-situ in collaboration with Amphibian Ark* (AArk), an initiative to take action towards the amphibian extinction crisis, and EAZA, the European Association of Zoos and Aquaria.

Main tasks will include: 1) The assessment of research priorities regarding the amphibian extinction crisis for the RZSA and the broader zoo and aquarium community. The post holder will operate as the AArk Research Officer to help organise a broad research strategy with several partners focused on amphibian conservation and to track progress with this; 2) The initiation of research projects within the RZSA. This also involves (co)applying for funds to establish long-term research programs; 3) Providing guidance towards the preparation of breeding facilities for ex situ amphibian populations and their management at the RZSA, in collaboration with zoo staff, AArk and EAZA.

Qualifications: - A demonstrable interest in zoo/aquarium-related research; - A PhD in Biology or Veterinary Medicine in (a) relevant field(s); - A special interest for - and preferably experience in - applied scientific research in the fields of amphibian

management *ex situ* or *in situ*; - Competency in the technical aspects of issues relating to amphibian conservation; - A stern discipline in, and experience with the publication of research results in scientific journals; - Excellent verbal and written communication skills in English; - The ability to work independently though in close collaboration with fellow researchers, zoo/aquarium curators and keepers, and Amphibian Ark and EAZA staff.

The successful candidate will have a full-time fixed term postdoc contract with the RZSA for two years initially, of which six months on proof, and with the possibility for an extension depending on funding opportunities. This is a newly created position and the post will be available immediately.

Candidates should apply by sending a full CV, a publication list and a cover letter, explaining why they are interested in this position, what particular skills they bring, and why they are interested in zoo-related research. In addition, we aim to have an open competition, and ask the applicants to provide a one to two-page *pré-proposal* for an amphibian conservation research program at the RZSA, preferably within a framework for research priorities for the broader zoo/aquarium community.

Review of applications will begin on 17 September 2007 and will continue until the position is filled.

Please send your application, preferably by email, to vera.cuyppers@KMDA.org, or by post to Vera Cuyppers, Royal Zoological Society of Antwerp, Koningin Astridplein 26, 2018 Antwerp, Belgium.

For more information about this job please contact Zjef Pereboom (Zjef.Pereboom@KMDA.org) or Peter Galbusera (Peter.Galbusera@KMDA.org) by e-mail or by telephone (+32 (0) 32024580) or visit the CRC website at <http://webh01.ua.ac.be/crc/> for information about the CRC's activities.

* Amphibian Ark (<http://www.amphibianark.org/>) is a joint effort of the World Association of Zoos and Aquariums (WAZA), the IUCN/SSC Conservation Breeding Specialist Group (CBSG), and the IUCN/SSC Amphibian Specialist Group (ASG) to lead zoos in setting up or supporting initiatives such as training courses, technical guidance, taxon survival efforts, fostering partnerships, capacity building, and communication activities directed at zoo based conservation of amphibians.

Zjef Pereboom <Zjef.Pereboom@kmda.org>

SanFranciscoStateU AvianInfectiousDiseases

POSTDOCTORAL POSITION - ECOLOGY AND EVOLUTION OF AVIAN DISEASE

A postdoctoral position is available in the Department of Biology at San Francisco State University, with affiliations to the Center for Tropical Research at UCLA. We are seeking a broadly trained evolutionary biologist with a strong background in the application of molecular genetic techniques to diseases of natural populations. The position is available for one year with the possibility of renewal for a second. The position is now open and applications will be accepted until the position is filled.

The successful candidate will work as part of an interdisciplinary team investigating the effects of deforestation on the prevalence of blood-borne pathogens in African rainforest birds. Using existing samples, as well as collecting new ones, and using PCR-based detection methods and molecular phylogenetics, the candidate will work collaboratively to investigate how long-term anthropogenic changes in habitats affect the prevalence of infectious diseases in natural populations. The three main objectives of the study are to: 1) determine how pathogen prevalence changes over time within differing rainforest habitats, 2) determine host, habitat and vector specificities of blood-borne pathogens to explore the degree of host-switching, and 3) determine, using remote sensing and bioclimatic data, the environmental variables that best correlate with pathogen prevalence and develop models that will aid in the prediction of how ecological change will affect disease prevalence and the likelihood of host switching.

The postdoctoral fellow will also have the opportunity to explore broader questions related to population diversification and microevolutionary processes of avian blood parasites. S/he will be encouraged to interact and collaborate with graduate students and colleagues at SFSU. Interested candidates should e-mail a CV, a brief description of research interests, and names and contact information for three references to:

Ravinder Sehgal sehgal@sfsu.edu

Ravinder N. M. Sehgal, PhD Assistant Professor, Department of Biology San Francisco State University 1600 Holloway Ave. San Francisco, CA. 94132

Phone: 415-405-0329 Fax: 415-338-2295 email: sehgal@sfsu.edu <http://userwww.sfsu.edu/~sehgal>

Ravinder Sehgal <sehgal@sfsu.edu>

TexasAMU EvolOfMutualism

An NSF-funded postdoctoral research associate position is available starting this fall/winter to test the hypothesis that food-for-protection mutualisms involving ants and honeydew-producing insects (e.g., aphids) facilitate the invasion of new habitats by ants (specifically Red Imported Fire Ants & Argentine Ants). This is a collaborative project involving Micky Eubanks (Texas A&M University), David Holway (University of California-San Diego), and Andrew Suarez (University of Illinois at Urbana-Champaign). The postdoctoral research associate will be based in the Eubanks lab at Texas A&M University and will be responsible for leading field experiments in Texas and Argentina and will participate in field experiments in California. A Ph.D. in Entomology, Ecology, or a related field is required as well as a strong background in the design and analysis of field experiments. Research experience with ants and Spanish fluency is preferred, but not required. Anyone interested in applying for this position should contact Micky Eubanks at m-eubanks@tamu.edu or 979-862-7847.

Micky D. Eubanks, PhD Associate Professor Department of Entomology Texas A&M University TAMU 2475 College Station TX 77843-2475 Ph: 979-862-7847 FAX: 979-845-6305 email: m-eubanks@tamu.edu web: <http://insects.tamu.edu/people/faculty/eubanksm.cfm> Micky D Eubanks <mdeubanks@ag.tamu.edu>

UAustral de Chile 3 EvolBiol

*****Three Postdoctoral Positions *****

At Universidad Austral de Chile, Valdivia.

Three postdoctoral positions with training in the following fields are open in the Ecology and Evolution Institute of Austral University of Chile, at Valdivia: Evolutionary Biologist (any sub-specialty), a Molecu-

lar Ecology/Functional Genomics of plant-insect interaction and Evolutionary Bioinformatics. These positions will work in a project of plant-insects interactions during three years with possibilities of a Faculty position after an appropriate evaluation. Contact and further information: Dr. Roberto Nespolo, robertonespolo@uach.cl

- Roberto Nespolo Instituto de Ecología $\frac{1}{2}$ a y Evolución $\frac{1}{2}$ n Facultad de Ciencias Universidad Austral de Chile. Casilla 567, Valdivia. Fono 56-63-221704 Fax 56-63-221344

Roberto Nespolo Rossi <robertonespolo@uach.cl>

UBath EvolEcol

Postdoctoral Research Officer in Evolutionary Ecology (Ref 07H166A)

Department: Department of Biology and Biochemistry, University of Bath, UK

Description: Applications are invited for a postdoctoral position in the broad field of evolutionary ecology and behavioural ecology to investigate cooperation and conflict in avian societies. The successful candidate will use combination of approaches that may include, but not restricted to, field research, lab-based experiments, molecular ecology, genetics, neuroendocrinology and mathematical modelling. The postdoctoral researcher will be responsible for coordination of European Community projects on breeding systems and social behaviour of birds, and overseeing student projects related to these themes. Candidates should have a PhD in a relevant field that may include evolutionary biology, animal behaviour, molecular and/or quantitative genetics, mathematical modelling and zoology. In addition to the Application form and CV, please submit a Research Proposal (approximately 500 words). Selection will be based upon research excellence and promise, and relevance to current research themes of Biodiversity Lab at the University of Bath. This is a fixed term appointment for up to two years. The position is available from 1 October 2007.

Salary: Salary in the range £26,666 - £31,840 per annum.

Contact: Application forms and further details may be obtained from the Human Resources Department, University of Bath, Claverton Down, Bath BA2 7AY, email jobs@bath.ac.uk quoting Ref No 07H166A. Alter-

natively, please phone the 24 hr answer-phone service on (01225) 386924, textphone (01225) 386039 quoting Ref No 07H166A.

Closing Date: 1st September 2007

bssts@bath.ac.uk

UCBerkeley SocialInsectEvol

POSTDOCTORAL SCHOLAR Genetics and Behavior of Social Insects

The Department of Environmental Science, Policy and Management at UC-Berkeley is currently seeking three Postdoctoral Scholars in the laboratory of Dr. Neil Tsutsui.

We are seeking Postdoctoral Scholars to study the genetics and behavior of social insects. Previous work has focused on the charming, yet invasive, Argentine ant (*Linepithema humile*). In this species, genetic changes during introduction have altered individual behavior and, in turn, the social organization of introduced populations. These changes have contributed to the Argentine ant's invasive success by promoting the formation of massive "supercolonies" in the introduced range. Publications from previous research can be downloaded from: <http://nature.berkeley.edu/tsutsuilab>. Current research topics include the chemical basis of nestmate recognition, population genetics of native and introduced populations, and the development of genomic tools for studies of behavior, learning and memory in Argentine ants and other social insects.

The Postdoctoral Scholars will have opportunities to contribute to ongoing research in these areas, as well as work on other projects related to the lab's core interests. Applicants should have a strong background in one or more of the following areas: chemical ecology, population genetics, genomics and gene expression, and genetics of behavior, learning and memory. Previous experience in behavioral ecology and/or insect biology is desirable, but not required. Salary is \$38,412 or commensurate with experience; generous benefits are included. The start date is negotiable. Applicants must have received their Ph.D. within the last five years.

Applicants should submit, by Sept. 15, 2007, a CV, a brief statement of research interests, copies of relevant publications and/or manuscripts, and contact information for two references to the email or postal address below.

Dr. Neil D. Tsutsui Department of Environmental Science, Policy and Management 137 Mulford Hall University of California, Berkeley Berkeley, CA 94602 ntsutsui@nature.berkeley.edu

The University of California, Berkeley is an equal opportunity employer committed to excellence through diversity. Applicants should ask referees to review the UC Berkeley Statement of Confidentiality found at: <http://apo.chance.berkeley.edu/evalltr.html> – Neil D. Tsutsui Assistant Professor Department of Environmental Science, Policy & Management University of California, Berkeley 137 Mulford Hall Berkeley, CA 94602

email: ntsutsui@nature.berkeley.edu <http://nature.berkeley.edu/tsutsuilab/> Phone: (510) 642-9012 Fax: (510) 643-5947 Office: 5028 Valley Life Sciences Building Lab: 5030 Valley Life Sciences Building

Neil Tsutsui <ntsutsui@nature.berkeley.edu>

UCLondon YeastSpeciation

Post-doctoral position in the genetics of hybrid sterility in yeast.

Department of Biology, University College London.

Salary will be within the range of: £21,050 to 25,134 per annum, plus £2,572 London Allowance, Grade 6 on the UCL salary scales.

A post-doctoral research associate is sought for one year for a NERC-funded project on speciation in yeast. When the Baker's yeast *Saccharomyces cerevisiae* mates with the closely related species *S. paradoxus*, the resulting hybrid offspring are viable but the gametes produced by these hybrids are not. A possible cause of this hybrid sterility is that certain genes from one species are incompatible with those of another. The aim of this project is to screen chromosomes for the presence of such speciation genes.

The project is based in the laboratory of Duncan Greig and will involve classical yeast genetics, genetic manipulation, PCR, and pulsed field gel electrophoresis. Full details of the method are described in a recent publication: Greig, D. (2007) PLoS Genet 3(2): e21. The post-holder will be responsible for the day-to-day running of the project, including technical troubleshooting, data analysis, writing-up and publicly presenting the work. The ideal candidate would be an experienced yeast geneticist with a strong background in spe-

ciation research, however outstanding candidates with good laboratory experience and either a microbiology or an evolutionary biology background may also be considered (see below).

To apply, first visit the following websites, where you can download the UCL Application Form, the Person Specification, the Job Description, and a paper describing the method (Greig 2007):

Job description and Person Specification:
<http://www.ucl.ac.uk/biology/academic-staff/vacancies/DuncanGreigPostDoc.doc>

Application form: <http://www.ucl.ac.uk/hr/jobs/Reference>:
Reference: <http://www.ucl.ac.uk/biology/academic-staff/vacancies/Greig2007Reference.pdf>

Please read these carefully and make sure you fit the required criteria.

Completed applications should be accompanied by a covering letter, a current CV, and details of three referees to: Dr Duncan Greig, Department of Biology, Wolfson House, 4 Stephenson Way, London NW1 2HE, UK. Completed applications may also be emailed to d.greig@ucl.ac.uk

UCL Taking Action For Equality

The closing date for applications is Monday, 3rd September 2007.

Duncan Greig

Department of Biology UCL Wolfson House 4 Stephenson Way London NW1 2HE

Office +44 (0)20 7679 5106 Lab +44 (0)20 7679 5113
Fax +44 (0)20 7679 5052

d.greig@ucl.ac.uk d.greig@ucl.ac.uk

UCLondon YeastSpeciationSalaryAmended

CORRECTION - Salary was stated incorrectly on the original version of this notice

Post-doctoral position in the genetics of hybrid sterility in yeast

Department of Biology, University College London.

Salary £26,666 plus £2,572 London Allowance (Grade 7, Pt. 29 on the UCL Salary Scales). Please note salary increased from that stated in original version of this no-

tice.

A post-doctoral research associate is sought for one year for a NERC- funded project on speciation in yeast. When the Baker's yeast *Saccharomyces cerevisiae* mates with the closely related species *S. paradoxus*, the resulting hybrid offspring are viable but the gametes produced by these hybrids are not. A possible cause of this hybrid sterility is that certain genes from one species are incompatible with those of another. The aim of this project is to screen chromosomes for the presence of such speciation genes.

The project is based in the laboratory of Duncan Greig and will involve classical yeast genetics, genetic manipulation, PCR, and pulsed field gel electrophoresis. Full details of the method are described in a recent publication: Greig, D. (2007) *PLoS Genet* 3(2): e21. The post-holder will be responsible for the day-to-day running of the project, including technical troubleshooting, data analysis, writing-up and publicly presenting the work. The ideal candidate would be an experienced yeast geneticist with a strong background in speciation research, however outstanding candidates with good laboratory experience and either a microbiology or an evolutionary biology background may also be considered (see below).

To apply, first visit the following websites, where you can download the UCL Application Form, the Person Specification, the Job Description, and a paper describing the method (Greig 2007):

Job description and Person Specification:
<http://www.ucl.ac.uk/biology/academic-staff/vacancies/DuncanGreigPostDoc.doc>

Application form: <http://www.ucl.ac.uk/hr/jobs/Reference>:
Reference: <http://www.ucl.ac.uk/biology/academic-staff/vacancies/Greig2007Reference.pdf>

Please read these carefully and make sure you fit the required criteria.

Completed applications should be accompanied by a covering letter, a current CV, and details of three referees to: Dr Duncan Greig, Department of Biology, Wolfson House, 4 Stephenson Way, London NW1 2HE, UK. Completed applications may also be emailed to d.greig@ucl.ac.uk

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d.greig@ucl.ac.uk d.greig@ucl.ac.uk

UCaliforniaDavis 2 TreeGenomics

Postdocs in Forest Tree Genomics \ddot{u} ₂ UC Davis

Two postdoc positions are available immediately in the lab of David Neale in the Dept. of Plant Sciences at UC Davis. Positions are for two years with renewal contingent upon funding and progress. Starting salary will be ~\$40,000 but can vary based on experience of applicant. Please send letter of interest, CV and names of three references to David Neale at dbneale@ucdavis.edu by Oct 1, 2007.

BAC and Genomic sequencing in pine. Topics include sequencing a small number of pine BACS with conventional Sanger sequencing and comparing sequences to those generated from one or more new sequencing platforms (454, Solexa, Solid). This position is supported by an NSF Plant Genome grant.

Association genetics in poplar. Topics include resequencing, genotyping and phenotyping in an association population. This position is supported by a grant from the UC Davis \ddot{u} ₂ Chevron biofuels program.

David Neale <dbneale@ucdavis.edu>

UCaliforniaIrvine EvolInfectiousDisease

One or more Postdoctoral Scholar positions are available to develop computational analyses and mathematical models of infectious diseases. The project will be jointly supervised by Robin Bush and Steven Frank, with opportunity to interact with a diverse group of evolutionary geneticists and infectious disease biologists at the University of California, Irvine (<http://ecoevo.bio.uci.edu>). This position provides an opportunity to develop an independent line of research and to collaborate with our group on quantitative problems. Potential projects include computational analyses of molecular data, computational tools for inference, or dynamical models of epidemiology and evolution.

This position requires a Ph.D. and a record of published research in areas related to molecular evolution, epidemiology, computational or mathematical biology. We require computational experience and quantitative skills, including competence in at least one commonly used programming language. Positions are initially for one year, with possibility of renewal. The positions are currently open, and the starting date is negotiable.

All qualified candidates, including minorities and women, are strongly encouraged to apply. Applicants should submit a cover letter, a curriculum vitae, and the names, addresses and phone numbers of two references by email only to:

Dr. Robin Bush rmbush@uci.edu

Department of Ecology and Evolutionary Biology 359 Steinhaus Hall University of California, Irvine Irvine, CA 92697-2525

The University of California, Irvine has an active career partner program, is an equal opportunity employer committed to excellence through diversity, and has a National Science Foundation Advance Gender Equity Program.

rmbush@uci.edu rmbush@uci.edu

UChicago Genomics

UNIVERSITY OF CHICAGO:

A post-doctoral research associate position is available immediately in the Department of Medicine and Institute of Genomics and Systems Biology, the University of Chicago. The position is initially for 1 year with a possibility of extension up to 3 years. Topic: Computational analysis of metastasis and molecular pathways in cancer. Requirements: a strong computational background (Ph.D. in computer science, statistics, physics, or mathematics is preferable), proficiency in programming with at least two of the following languages: C++, Perl, and Java, and an experience with designing mathematical models and implementing them in computer programs. Knowledge of cancer biology and/or text-mining is a plus. The project would involve an exciting international collaboration with researchers from the Ludwig Institute of Cancer Research.

The successful candidate will be offered a competitive salary depending on background and experience. Interested applicants: please provide a full CV, brief statement of research interests, and contact details of 3 (or

more) references.

Contact: Andrey Rzhetsky, arzhetsky@uchicago.edu

Thank you very much,

Andrey

Andrey Rzhetsky <arzhetsk@medicine.bsd.uchicago.edu>

UDurham FishPopGenetics

Durham PDRA position available

An application deadline has now been set for this position - 5 Sept 07 - see:

https://jobs.dur.ac.uk/jobdtls.asp?Session_in=&Uid=&vref 76

Population genetics and phylogenetics at the mid-Atlantic Ridge.

A three-year post-doctoral position is available in the Molecular Ecology Group at the University of Durham, Durham, UK. Funding is from NERC and in affiliation with the ECOMAR consortium and MARECO (part of the census of marine life). The project will involve population genetic comparisons for several deep-sea fish species across possible boundaries to gene flow at the ridge and sub-polar front, and phylogenetic investigations of invertebrate species (including Holothuroidea) at the ridge. The work is facilitated by a full-time technician. The proposed start date is now 1 November, 2007. The successful applicant will have a PhD and extensive experience with population genetic and phylogenetic lab and computer analyses. Please apply online at the web site given above.

a.r.hoelzel@durham.ac.uk

UFlorida EvolGenetics

Postdoctoral research associate in Evolutionary Genetics at the University of Florida

Applications are invited for a postdoctoral research associate to work on an NSF-funded project on the evolution of mutation rate in the lab of Charles Baer at the University of Florida (<http://www.zoo.ufl.edu/-cbaer/>). The project combines classical mutation-

accumulation methods of quantitative genetics with very-high-throughput genome sequencing to investigate the relationship between current mutation load and future mutation rate, using the nematode *Caenorhabditis elegans* as a model system. The project additionally includes a theoretical component in collaboration with Frank Shaw (Hamline University, St. Paul, MN), to which the postdoc is encouraged but not required to contribute. The successful applicant will ideally have some or all of the following skills: *C. elegans* biology, molecular biology, bioinformatics, theoretical population genetics. All applicants will be considered, however, and the only necessary attribute is a commitment to excellent work in an explicitly team-oriented environment. Independent side projects are encouraged and will be supported intellectually and financially if feasible. The initial appointment is for one year, with an additional two years' funding available conditional on satisfactory performance.

Start Date (pending final NSF approval): Oct.15, 2007 or as soon as possible thereafter.

Starting Salary: \$36,996/year plus competitive benefits, including family health insurance, and annual increases at the NIH-mandated rate.

Location: Gainesville, Florida, USA. Gainesville is a very pleasant, medium-sized city in north-central Florida with excellent public schools. Outstanding year-round outdoor recreational opportunities abound, as long as they don't involve snow ("This is Florida. No snow, no ice.").

The University of Florida is an equal-opportunity institution. Members of groups under-represented in the Biological Sciences are especially encouraged to apply.

Please direct inquiries by email to Charles Baer (cbaer@zoo.ufl.edu).

—

Charles F. Baer Assistant Professor Department of Zoology 223 Bartram Hall P. O. Box 118525 University of Florida Gainesville, FL 32611-8525 USA

Phone: 352-392-3550 Fax: 352-392-3704

Email: cbaer@zoo.ufl.edu web: <http://www.zoo.ufl.edu/faculty/baer.html> cbaer@zoo.ufl.edu
cbaer@zoo.ufl.edu

UGeorgia PopulationEcol

POSTDOCTORAL RESEARCH ASSOCIATE
School of Ecology, University of Georgia, USA

Applications are invited for a postdoctoral assistantship in Population Ecology. The position will focus on the study of co-evolutionary dynamics in a laboratory host-parasitoid and host-pathogen system. The protagonist species are the Indian meal moth (*Plodia interpunctella*), its ichneumonid parasitoid (*Venturia canescens*) and the virus (*PiGV*). The work, carried out in collaboration with Dr Steven Sait (University of Leeds, UK), will place a strong emphasis on designing lab experiments to test theoretical predictions and the analysis of long-term time-series data.

The successful applicant would have a PhD in Ecology & Evolution. The position is for 18 months in the first instance, with a salary in the range of \$32-40,000 per year (depending on experience), plus fringe benefits.

For further information, contact Pej Rohani +1 706 542 9249, e-mail: rohani@uga.edu.

Applicants should send a detailed CV, together with a brief statement of research interests and three references to Pej Rohani, Institute of Ecology, University of Georgia, Athens GA 30602. Electronic applications are encouraged.

Review of applications will start on August 20 and will continue until the post has been filled.

Pejman Rohani <rohani@uga.edu>

UHawaii EvolPlantCentromeres

Two Postdoctoral Scientist positions are available at the University of Hawaii (www.genomics.hawaii.edu) for the duration of two years starting immediately.

1.) Genomics/bioinformatics position to study the sequence composition of corn centromeres. The ongoing public maize genome sequencing effort, in combination with novel techniques including massively parallel sequencing methods and chromatin immunoprecipitation, makes this an auspicious time to study the centromeres of corn. The ideal candidate will possess a thorough understanding of plant genomes and genomics, including the principles of physical and genetic mapping techniques, have working experience with large scale bioinformatic analyses and possess excellent oral and written communication skills.

2.) Cell biology position to study the role of cen-

tromeric sequences in centromere function. The ideal candidate will have experience in fluorescence microscopy as well as in protein and nucleic acid techniques, including RNA isolation, DNA/RNA-protein binding assays, Western blotting and immunological techniques. Excellent written and oral communication skills are essential.

Both positions come with a monthly stipend of at least \$3,000. Please apply in writing by submitting curriculum vitae and the names, addresses, email and phone numbers of three references to: Gernot Presting, Dept. of Molecular Biosciences and Bioengineering, 1955 East-West Rd, Agricultural Science Bldg. Rm 218, Honolulu, HI 96822; Email: gernot@hawaii.edu. Women, people of color, individuals with disabilities, members of minority groups and veterans are encouraged to apply.

Gernot Presting Assistant Professor Bioinformatics Molecular Biosciences and Bioengineering University of Hawaii

To learn more about our research interests, please see:

www.genomics.hawaii.edu www.plantcentromeres.org
www.genomics.hawaii.edu/Rhodophyta Gernot Presting <gernot@hawaii.edu>

UKansas MedusozoanPhylogenetics

Postdoctoral Position in Medusozoan Phylogenetics at the University of Kansas and Smithsonian Institution

A two-year postdoctoral position is available to participate in an NSF sponsored Assembling the Tree of Life project for Cnidarians (CnidToL). We are looking for an individual with a strong background in computational methods in phylogenetic analyses, molecular sequence analysis, bio/phyloinformatics, and invertebrate biology. The successful candidate will split his/her time between the University of Kansas (Department of Ecology and Evolutionary Biology) under the supervision of Dr. Pauly Cartwright and the Smithsonian Institution (National Museum of Natural History) under the supervision of Dr. Allen Collins.

Review of applications begins September 30, 2007 with an estimated start date November 1, 2007

Salary, competitive based on experience

Apply to: <https://jobs.ku.edu> (position #00206267)

Questions to: Dr. Paulyn Cartwright, pcart@ku.edu or Dr. Allen Collins, COLLINSA@si.edu

Paulyn Cartwright Assistant Professor Department of Ecology and Evolutionary Biology 1200 Sunnyside Ave. Haworth Hall, Rm. #7016 University of Kansas Lawrence, KS 66045

Phone: (785)864-4432 FAX: (785)864-5860

Paulyn Cartwright <pcart@ku.edu>

UNebraska PopulationBiol

Postdoctoral Fellowship in Population Biology – <http://popbio.unl.edu> New opening for a postdoctoral Fellow: applications due October 15, 2007, starting date January 2008.

The University of Nebraska Program of Excellence in Population Biology offers two-year Postdoctoral Fellowships in Population Biology. The successful Population Biology postdocs bring new skills, new ideas, and new excitement to UNL programs. Postdoctoral positions are advertised internationally every year; thus, new highly-qualified individuals regularly join the Population Biology group. Candidates will develop a research project with a faculty member associated with the Program (see list of core faculty). These positions will provide recent graduates the opportunity for independent research in association with a growing, integrative, and cross-disciplinary program. Applicant selection will be based on a research proposal to work with an established Population Biologist at UNL, but once in residence post-docs will be expected to interact more broadly with the group and participate in graduate instruction through courses and seminars.

New opening for a Postdoctoral Fellow: qualified candidates are required to contact potential faculty advisors from the list of core faculty associated with the program (<http://popbio.unl.edu/corefaculty.htm>). A Ph.D. and expertise in any aspect of population biology is required. To apply, send a CV, a 5-page research proposal, and description of potential graduate seminars and arrange for three letters of reference, one of which must be from the proposed faculty sponsor, to the Population Biology Post-doctoral Fellowship Selection Committee, School of Biological Sciences, University of Nebraska- Lincoln, 348 Manter Hall, Lincoln, NE 68588-0118.

Closing date is 15 October 2007. Fellowship positions

will remain open until suitable candidates are selected. UNL is committed to a pluralistic campus community through Affirmative Action and Equal Opportunity, and is responsive to the needs of dual career couples. We assure responsible accommodation under the Americans with Disabilities Act.

Guillermo Orti School of Biological Sciences University of Nebraska 314 Manter Hall, Lincoln, NE 68588-0118, USA

Tel: 402-472-3433 – Fax: 402-472-2083
<http://golab.unl.edu> <http://deepfin.org>
<http://popbio.unl.edu/> Guillermo Orti
 <GORTI@unlserve.unl.edu>

UOklahoma EvolBiol

POSTDOCTORAL FELLOW - THE UNIVERSITY OF OKLAHOMA BIOLOGICAL STATION (UOBS). The University of Oklahoma (OU), Norman, Oklahoma, invites applications for a Postdoctoral Fellowship in Ecology and Evolutionary Biology to be a resident research scientist based at the university's Biological Station (UOBS) on Lake Texoma (Texas-Oklahoma border; 2-hr drive from campus). This is a 12-month (0.75 FTE; equivalent to 9 mo) appointment with benefits (i.e. medical, dental), renewable on an annual basis for up to three years. The fellow will be responsible for developing a research program in conjunction with UOBS faculty and assisting with the educational outreach program at the station via occasional presentations to visiting groups. In addition, the fellow will be given the opportunity to teach a two-week long (3 cr. hr.) course at the Station during summer for extra compensation. The targeted starting date is 1 January 2008, but is flexible. More information on UOBS and UOBS faculty research interests can be found at <http://www.ou.edu/uobs>. Applicants should include a curriculum vitae, reprints of representative publications, a detailed 3-5 page outline of the research to be conducted at UOBS and arrange to have three letters of recommendation sent on the applicant's behalf. Applicants are encouraged to contact one or more UOBS faculty prior to submitting application. All materials should be sent electronically to Lawrence J. Weider, Director, UOBS (ljweider@ou.edu). Applicant review will begin 15 October 2007 and continue until the position is filled. The University of Oklahoma encourages diversity in the workplace. The University of Oklahoma is an Affirmative Action/Equal Opportunity employer.

Lawrence J. Weider, Ph.D. Director, The University of Oklahoma Biological Station HC-71, Box 205 Kingston, OK 73439 Phone: 1-405-325-7438 ljweider@ou.edu

and

Professor Department of Zoology University of Oklahoma Norman, OK 73019 Phone: 1-405-325-4766 FAX: 1-405-325-0835

ljweider@ou.edu

UOxford HumanMalariaCoevol

UNIVERSITY OF OXFORD

DEPARTMENT OF STATISTICS

POSTDOCTORAL RESEARCH ASSISTANT

Fixed term appointment of 18 months - 2 years' duration Academic-related Research Staff Grade 7: Salary £26,666 to £32,796 (bar) per annum (as at 1 August 2007)

Detecting human-malaria co-evolution from genetic variation data

A fixed-term research position of 18 months to 2 years, funded by the Human Frontier Research Program (HFSP), is available to work with the research group of Professor Gil McVean on statistical issues concerning the joint analysis of genetic variation from humans and malarial (or other) pathogens. The start date for the post is negotiable but would ideally be as soon as possible. Well-qualified successful applicants are likely to be appointed at or near the top of the salary scale given above.

The post relates to the development, study, and application of novel statistical methods for analysing large-scale data sets on both host and pathogen variation. Specifically, the aim is to identify loci involved in co-evolutionary processes through collection and analysis of multi-population data. The research is part of a larger project involving the collaboration of the groups of Sarah Tishkoff (Maryland), Philip Awadalla (NC State) and Anna Tramontano (Rome).

Candidates should have a strong background in population genetics. Knowledge of modern statistics and its application in genetics would be an advantage, but candidates wishing to move into the genetics field are also welcome to apply. Good computational skills are essential and candidates should be able to program in

a low level language such as C or C++. Candidates should have, or expect soon to have, a doctorate. The Department of Statistics in Oxford is one of the largest and strongest in the UK and a world leader in statistical genetics.

Informal enquiries should be directed to mcvean@stats.ox.ac.uk. Further particulars are available from <http://www.stats.ox.ac.uk>, or the address below.

Applications should comprise a curriculum vitae and a list of publications together with the names, addresses, telephone, fax and e-mail details of three referees and should be submitted (single hard copy) to Personnel Administration, Department of Statistics, 1 South Parks Road, Oxford, OX1 3TG. Applications faxed to +44 1865 272595 or e-mailed to jobs@stats.ox.ac.uk are acceptable as long as they are followed by hard copy. Please always quote reference number: AM-07-006.

The closing date for applications is Friday, 31 August 2007.

Gilean McVean Professor of Statistical Genetics Department of Statistics 1 South Parks Road Oxford OX1 3TG UK

Tel: +44 1865 281881 Fax: +44 1865 281333
web: <http://www.stats.ox.ac.uk/~mcvean>
mcvean@stats.ox.ac.uk mcvean@stats.ox.ac.uk

UQueensland ViralPopDynamics

Post doctoral Research Fellow

An opportunity exists to work, as a Postdoctoral Research Fellow, on a project funded by an Australian Research Council Discovery grant. A motivated PhD graduate is required to undertake original research modelling the stochastic dynamics and evolutionary genetics of virus populations.

The research will take place at the School of Physical Sciences of The University of Queensland, which undertakes a broad program of theoretical research, ranging from astrophysics to bioinformatics research, in conjunction with a strong biological sciences precinct. This project will extend the School's research scope to include theoretical population genetics and population dynamics. The project has a computational and quantitative focus, aided by close cooperation with biologists and experts in computational evolutionary biology.

The successful candidate will focus on the highly relevant case of modeling viral evolution in a single infected host using recent computational simulation techniques developed for quantum physics. Familiarity with high-level computer languages would be useful, as would a knowledge of modern population genetics or the use of stochastic differential equations.

You should possess a PhD in one of the following areas: population genetics, evolutionary biology, mathematics/mathematical biology, or bioinformatics/computational biology. The successful candidate should also have authored articles in international peer-reviewed journals.

This is a fixed term (one year with possible on year extension), full-time appointment at Academic Level A.

Applications close on October 1st, 2007.

Contact:

Professor P. D. Drummond,

School of Physical Sciences University of Queensland
Brisbane, Queensland 4072, Australia.

Email: drummond@physics.uq.edu.au

UStAndrews CompBiology

UNIVERSITY OF ST ANDREWS SCHOOL OF BIOLOGY RESEARCH FELLOW Salary: £27,857 per annum

This 3 year post is to work in the laboratory of Dr V Anne Smith performing research in Bayesian network inference of gene regulatory networks. This research will be performed in concert with experimentation in yeast, *S. cerevisiae*. The bulk of your responsibility will be in computational development; however, funding for attendance at a training course in experimental yeast genetics is available and you will have the opportunity to do some experimental work.

You should have a PhD in Bioinformatics, Biology, a Computational Science, or related field, computer programming skills, and a strong desire to perform integrative computational and biological research. Familiarity with computational molecular biology is advantageous, but is not required.

Informal enquiries to Dr V Anne Smith, email: anne.smith@st-andrews.ac.uk and for further infor-

mation about the lab please visit <http://biology.st-andrews.ac.uk/vannesmithlab/> Please quote ref: ME012/07 Closing date: 10 September 2007

Application forms and further particulars are available from Human Resources, University of St Andrews, College Gate, North Street, St Andrews, Fife KY16 9AJ, (tel: 01334 462571, by fax 01334 462570 or by e-mail Jobline@st-andrews.ac.uk). The advertisement and further particulars and a downloadable application form can be found at <http://www.st-andrews.ac.uk/-employment/>.

The University is committed to equality of opportunity. – Dr V Anne Smith School of Biology Sir Harold Mitchell Building University of St Andrews St Andrews, Fife KY16 9TH United Kingdom +44 (0)1334-463368 anne.smith@st-andrews.ac.uk biology.st-andrews.ac.uk/vannesmithlab/

anne.smith@st-andrews.ac.uk

anne.smith@st-andrews.ac.uk

biology.st-andrews.ac.uk/vannesmithlab/

UStellenbosch AbaloneEvol

Postdoctoral research positions: Department of Genetics, University of Stellenbosch, South Africa (21 Aug 2007)

Various postdoctoral research positions in molecular genetics are available in the Aquaculture Division, Department of Genetics, Stellenbosch University with the project title “Genetic improvement of the abalone, *Haliotis midae*.”

Haliotis midae, known locally as ‘perlemoen’, occurs along the Western, Southern and Eastern shores of South Africa and is the only one of the six species that occurs in South Africa that is commercially exploited. *H. midae* displays a very slow growth rate, taking two to five years to reach market size. This is an obstacle in the profitable farming and global competitiveness of this species. In order to increase the productivity and the profitability of the commercial activity, a research program has been designed that makes use of the modern technology currently applied to other aquaculture species. The research program consists of three main parts: a) establishment of breeding programs with the assistance of genetic markers, b) generation of linkage maps and QTL identification, c) and the application of gene transfer technology.

The successful candidates will be primarily responsi-

ble for a) the construction of tissue-specific, full-length cDNA libraries for *Halictus midae* b) the development of a *Halictus midae* Expressed Sequence Tag Database (dbEST) c) linkage mapping in *Halictus midae* with possible QTL identification

Candidates should have a) A strong background in molecular genetics with applicable knowledge in cDNA technology. b) Practical experience in DNA sequence analysis and a strong background in bioinformatics is a prerequisite. c) A proven background in molecular genetic markers with applicable knowledge in linkage mapping.

The positions are available for 2 years.

Interested candidates are requested to send their CV, including the details of two references, to Dr. Rouvay Roodt-Wilding at roodt@sun.ac.za. Please mark clearly on your application for which research area specifically (a,b,c) you are applying for.

Closing date: 21 September 2007

roodt@sun.ac.za

USussex SocialWasps

Postdoctoral Research Fellow in Behavioural Ecology of Social Systems

Salary Scale: Grade 7 £26,666 to £31,840 p.a. (Pay award pending). Starting salary no higher than £29,138 p.a.

A 3 year NERC-funded postdoctoral position is available to join the research group of Prof Jeremy Field at Sussex University (UK) working on the behavioural and evolutionary ecology of social systems. The start date is 1 December 2007 or as soon as possible thereafter.

The main aim of the project is to understand helping decisions in primitively eusocial insects, using *Polistes* paper wasps as a model system. In particular, to separate the effects that kin selection and direct fitness benefits have on behaviour, and to investigate the role of inheritance in promoting helping. The result should be the most comprehensive evaluation to date of the basis of helping in a primitively eusocial insect.

The project will involve a combination of field experiments and genetic work using microsatellite markers that are already available. Wasp cuticular hydrocarbon profiles will also be analysed by a project partner in Italy (Prof. S. Turillazzi). The successful applicant

will spend 2-5 months each year conducting fieldwork at an established site in southern Spain, usually together with other members of the research group. There will be a technician working on the project who will carry out most of the molecular work.

The successful applicant will have a Ph.D in behavioural/evolutionary biology. Experience with animal social systems (especially primitively eusocial wasps), and experience of fieldwork, statistical analysis using R' or similar programs, theoretical modelling or molecular techniques would be useful, but it is not necessary to have experience in all of these areas. An ability to speak Spanish, or willingness to learn some basic Spanish, is desirable.

Closing date for applications: 30th August 2007

For full details and how to apply see <http://www.sussex.ac.uk/jobs> Ref: 837

Jeremy Field's research group is currently based at UCL in London (<http://www.ucl.ac.uk/biology/academic-staff/field/field.htm>), but will move to Sussex on 1 September 2007.

Informal enquiries: e-mail jeremy.field@ucl.ac.uk

The University of Sussex is committed to equality of opportunity

jeremy.field@ucl.ac.uk jeremy.field@ucl.ac.uk

UTennessee Bioinformatics

Re: Seeking a bioinformatics personA position in bioinformatics at either data analyst or postdoctoral level is available in the laboratory of Dr. Julia Krushkal at the University of Tennessee Health Science Center in Memphis, TN, USA. Below we provide the description of the data analyst position that has been posted by the University of Tennessee Health Science Center (http://oracle.utmem.edu/a206_job_list.php?UT=1&JOB_CATEGORY=0). Specific questions about the type of bioinformatics analyses to be performed in this position can be addressed to Dr. Julia Krushkal (jkrushka_AT_utmem.edu).

Interested candidates must submit a formal application to the University of Tennessee-Memphis Human Resources. Please see detailed instructions at <http://www.utmem.edu/hr/Employment/-howtoapply.htm> Please refer to position number 19319 in your application.

Date Posted: 13-AUG-2007 Job Title: DATA ANALYST PIN Number: #19319 Responsible Account: PREVENTIVE MEDICINE

Salary Range: \$31,331.28 - \$44,977.67 JOB SUMMARY: The Data Analyst will be responsible for the handling and analysis of genetic data from a collaborative research study studying the genome potential of environmentally important microorganisms, species of *Geobacter*. The duties including management and manipulation of large data sets that include genome sequences, microarray data, and proteomics data; writing computer programs to handle the data; running available public and commercial bioinformatics software to analyze the data; statistical analysis; and preparation of results for scientific publication. The Data Analyst will provide automated support of genetic analysis and data handling, as well as assist with data analysis for the *Geobacter* project. This position will also provide technical assistance to study staff on genome data handling, analysis, and formatting, and on information systems, and will be responsible for conducting literature reviews and assisting in manuscript and grant proposal preparation and publication of study results. REQUIREMENTS: Bachelor's Degree in Biology, Biostatistics, Genetics, Epidemiology, Microbiology, Computer Science, Engineering, or other technical or biomedical discipline; three (3) years experience in data analysis with a knowledge of programming or bioinformatics or biostatistics; fluent in one or more computer programming and statistical languages on personal computer platforms or workstations: C, C++, Perl, Fortran, Java, Unix Shell Scripting, SAS, SPSS, Splus. Must be familiar with common database applications or with tools of genome or microarray analysis, computer skills and excellent written and verbal communication skills. OR Master's Degree in above fields and one (1) year of data experience and above mentioned knowledge and job skills. OR a combination of college coursework in above fields and work experience in data analysis. TRANSCRIPT REQUIRED IF EDUCATION IS USED TO QUALIFY FOR THIS POSITION.

Julia Krushkal, Ph.D., Assistant Professor Department of Preventive Medicine The University of Tennessee Health Science Center Memphis, TN 38163

<http://cgb.utmem.edu/jkrushkal/>

krushkal@gmail.com

UUtah EvolImmunology

Post Doctoral Research Associate

Ecological Immunology

The overarching goal of this project is to examine the pathogenesis of Sin Nombre virus (SNV) infection in wild populations of deer mice. In particular, we are interested in investigating the immune response of deer mice to SNV and its effect on fitness. A segment of this project will require adapting existing techniques used in model systems to deer mice as well as developing reagents for deer mice. Publications from our lab in this area are available @ [http:// www.biology.utah.edu/-dearing/index.html](http://www.biology.utah.edu/-dearing/index.html) . Qualifications: Applicant must have a Ph.D. and a background in infectious diseases, immunology, or related area. Prior experience required in immunological and molecular approaches (e.g., immune challenge assays, ELISA, microsatellites, RNA extraction, PCR, cloning, sequencing, microarrays). Strong writing skills as evidenced through a publication record are essential. Prior experience trapping and handling small mammals in the field preferred but candidates enthusiastic to learn and committed to fieldwork will be considered. To apply, send a cover letter detailing your interest in this project and suitability for the position as well as career goals, CV, research statement, representative reprints, names and email addresses of at least three references to Dr. Denise Dearing <dearing@biology.utah.edu>. Start date November 1, 2007 (somewhat flexible). Starting salary \$34,000 and healthcare benefits. Funding guaranteed for 14 months; future funding possible.

Denise Dearing, Ph.D Professor Biology Department 257 S 1400 E Salt Lake City, UT 84112 dearing@biology.utah.edu Phone: 801-585-1298 Fax: 801-581-2174

Denise Dearing <dearing@biology.utah.edu>

UZurich EvolGenetics

Postdoctoral position in Evolutionary Genetics

A postdoctoral position is available for three years in

the group of Lukas Keller at the Zoological Museum of the University of Zurich, Switzerland, to study the genetic basis of inbreeding depression in a natural bird population.

The project aims to address a long-standing issue in evolutionary genetics, the genetic basis of inbreeding depression, by combining the analysis of extensive life-history data with molecular genetic approaches and recently developed statistical tools to map quantitative trait loci (QTL) in pedigreed populations. We are addressing this issue in a natural population of song sparrows (*Melospiza melodia*) on Mandarte Island, a small island off the West Coast of Canada. This unique population has some of the most complete and extensive pedigrees of any natural population, spanning over 30 years and 25 generations. Analyses of inbreeding and its consequences in this population have revealed significant inbreeding depression in several fitness components, making this population an excellent system to quantify the genetic basis of inbreeding depression via QTL mapping.

I am seeking a highly motivated and well-qualified postdoc. Applicants must have a PhD in evolutionary genetics, animal and plant breeding, statistics, computational biology, or related fields. Postdoctoral experience and experience with QTL analyses would be advantageous, as are molecular laboratory skills. Good quantitative skills are essential. The successful candidate is expected to develop her/his own ideas within the context of the research project and to supervise MSc projects.

The University of Zurich has a strong and interactive group of evolutionary biologists, including several at the Zoological Museum, the Zoological Institute, the Institute of Environmental Sciences, the Institute of Systematic Botany, and at the neighbouring Swiss Federal Institute of Technology (ETH). My lab has state-of-the-art facilities with DNA extraction and liquid handling robots and access to high-throughput sequencers and excellent bioinformatics facilities. Zurich is a highly attractive city in beautiful surroundings not far from the Alps, with a multinational population, and many educational and recreational opportunities.

The position is available immediately for a period of three years. The starting date is flexible and I am willing to wait for an outstanding candidate. Salary will be in the range of CHF 75'000 â 80'000.

Please submit your curriculum vitae, list of publications, a one page statement of research interests and the names of three potential referees (all in a single pdf file if applying by email) to:

Barbara Oberholzer, Zoological Museum, University of Zurich, Winterthurerstr. 190, CH-8057 ZÃ¼rich, Switzerland Email: b.oberholzer@access.uzh.ch

Review of applications will begin on 1 October 2007.

For informal enquiries contact:

Prof. Dr. Lukas Keller, Zoological Museum, University of Zurich, Winterthurerstr. 190, CH-8057 ZÃ¼rich, Switzerland Email: lukas.keller@zm.uzh.ch Tel.: +41 44 635 47 50 Web: www.zm.uzh.ch lukas.keller@zm.uzh.ch lukas.keller@zm.uzh.ch

Umich Primate SexualSelection

A three year postdoctoral position in animal behavior is available at the University of Michigan working with Drs. Thore Bergman and Jacinta Beehner. The research involves behavioral, vocal, and hormonal studies of a population of wild geladas (*Theropithecus gelada*, a close relative of baboons) in Ethiopia. Specifically, we are studying the relationship between social knowledge and sexually selected signals in geladas. Within this framework, several lines of research can be pursued including: playback experiments documenting knowledge about other group members, fecal derived hormone studies addressing the physiological correlates of status and signals, acoustic analysis of vocal signals, and color analysis of visual signals.

The first two years of the position will consist of fieldwork at our remote research site in the Simien Mountains National Park of Ethiopia. During this time the postdoc will be responsible for (1) conducting the field research and (2) managing the small research camp. The field site is remote and living conditions are difficult. Therefore, field experience is required. The final year of the position will be spent at the University of Michigan in Ann Arbor analyzing data and writing up the results.

We welcome applicants with PhDs in Anthropology, Biology/Zoology, or Psychology. Applicants must have experience with collecting and analyzing behavioral data. Applicants having experience with either vocal research (i.e, either acoustic analysis or playback experiments) or hormone analysis are preferred.

The position is available starting January, 2008. Target application date is September 30th, 2007.

Informal inquiries should be sent to thore@umich.edu

Applicants should send a cover letter briefly detailing their research interests, a curriculum vitae (including a list of publications), and the names and affiliations of three references. Applicants must arrange to have reference letters sent to us separately. Applications and references can be submitted (preferably by email) to:

Thore Bergman Department of Psychology 3014 East Hall 530 Church Street University of Michigan Ann Arbor, MI 48109 USA thore@umich.edu

UtahU PlantMammal Interactions

Post Doctoral Research Associate Functional Genomics of Plant-Mammal Interactions

Specifically, this project involves investigation into the evolution of creosote feeding by the desert woodrat (*Neotoma lepida*). Within the past 10,000 yrs, the desert woodrat has evolved the capability to deal with the large quantities of toxic resin ingested while foraging on creosote leaves. This capacity for resin tolerance differs among desert woodrat populations such that populations with evolutionary experience with creosote voluntarily ingest greater quantities of creosote. Furthermore adapted populations have higher enzyme activities, particularly, cytochrome p450 2B, 1A and GST. The goal of this project is to identify potential candidate genes and to conduct functionality assays particularly with respect to the detoxification enzymes related to creosote feeding. Publications available @ <http://www.biology.utah.edu/dearing/index.html> .

Qualifications: Applicant must have a Ph.D. and experience with the molecular approaches such as RNA extraction, PCR, cloning, sequencing and microarrays as well as experience with the appropriate computer software (sequence alignment etc). Background in pharmacology or toxicology helpful. Strong writing skills as evidenced through a publication record are essential. Prior experience with trapping and handling of small mammals preferred but candidates willing and enthusiastic to learn will be considered. To apply, send a cover letter detailing your interest and suitability for the position as well as career goals, CV, research statement, representative reprints, names and email addresses of at least three references to Dr. Denise Dearing <dearing@biology.utah.edu>. Start date Feb 1, 2008 (somewhat flexible). Starting salary \$33,000 and healthcare benefits. Funding guaranteed for 1 year; future funding possible.

Denise Dearing, Ph.D Professor Biology Department 257 S 1400 E Salt Lake City, UT 84112 dearing@biology.utah.edu Phone: 801-585-1298 Fax: 801-581-2174

Denise Dearing <dearing@biology.utah.edu>

Vienna MHC Genetics

Title: Vienna - MHC genetics One Postdoc position in MHC genetics is available in the genetics laboratory of Franz Suchentrunk at the Research Institute of Wildlife Ecology, University of Veterinary Medicine Vienna, Austria, in co-operation with Helmut Schaschl (Konrad Lorenz Inst. for Ethology, Vienna).

The position is connected to a project on MHC genes and endoparasites in brown hares, *Lepus europaeus*, to understand the meaning and consequences of immunogenetic diversity for individual fitness in wild living mammals. In this project we use brown hares (*Lepus europaeus*) as a mammalian model to assess and analyse the consequences of sequence variation of two MHC class II genes (DRB, DQA) on parasite burden and other fitness parameters in natural populations. Description and characterization of those genes by or lab are expected in the next future.

To understand the meaning of allelic MHC variability we investigate relationships between sequence variation at the studied loci and individual endoparasite load, various fitness parameters such as body condition and female reproductive success, as well as CD4+ T-cell counts.

The successful applicant will particularly be responsible for performing real-time PCR and SSCP analyses in the context of infection experiments to quantify changes in gene expression, as well as analyzing the data and writing manuscripts.

In addition, wet lab experients such as PCR, cloning, sequencing, microsatellite analysis, SSCP, basic bioinformatic tools are necessary. Most desirably, the candidate should have a strong immunogenetic and/or population genetic background. Project language will be English.

Funding is available for 2 years. Postdoc salaries (FWF-Austrian Science Funds- pay scale) before tax and NI are 2.878,60 Euro, 14 times per year. Depending on marital status and children this salary translates into a net monthly salary of ca. 1700 Euro (14 x per year).

The successful applicant is supposed to start on 1 or 15 November 2007, but not later than 1 December 2007.

Applicants are encouraged to submit their CV, including a list of publications and oral presentations to: franz.suchentrunk@vu-wien.ac.at

Franz Suchentrunk Research Institute of Wildlife Ecology University of Veterinary Medicine, Vienna Savoyenstr.1, A-1160 Vienna, Austria phone: ++43 1 4890915-130 fax: ++43 1 4890915-333

Franz.Suchentrunk@vu-wien.ac.at

YaleU EvolFuncGenomics

Postdoctoral Opening in the Townsend Laboratory Department of Ecology and Evolutionary Biology Yale University

A post-doctoral position in evolutionary functional genomics is available in the Department of Ecology and Evolutionary Biology at Yale University in the Townsend Laboratory.

The Townsend Laboratory integrates theory, computation, and experiment to study functional genomics and evolutionary biology. Theoretical work includes modeling of the evolution of gene expression, bioinformatics and statistics for the analysis of DNA microarrays, phylogenetics and evolutionary biology, and novel theoretical approaches for the analysis of microbial communities when horizontal gene transfer belies traditional

species concepts.

This position provides an opportunity to use whole-genome microarrays to study the evolutionary functional genomics of *Saccharomyces* or *Neurospora*. Projects may include the evolution of gene expression and the functional genomics of interspecies infertility. This position will require an independent and motivated individual.

Applicants soon to acquire their Ph.D. or with previous postdoctoral experience are welcomed. All applicants should have received their Ph.D. prior to taking up the appointment.

Funding is available for multiple years, depending on performance. The salary will be greater than the NIH guidelines, and commensurate with experience and expertise. Yale is located in New Haven in the heart of New England, close to New York, Hartford, Providence, and Boston.

Starting date is flexible.

To apply, please send a CV, a brief statement of research interests and contact information for three academic references to

Jeffrey.Townsend@Yale.edu

Lab web site: <http://www.yale.edu/townsend/> Jeffrey P. Townsend, Ph.D.

Assistant Professor Dept. of Ecology and Evolutionary Biology Yale University P.O. Box 208106 165 Prospect Street New Haven, CT 06520

<http://www.yale.edu/townsend/> 203 432-4646

Jeffrey.Townsend@Yale.edu

Jeffrey.Townsend@Yale.edu

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WorkshopsCourses

BoulderCO PlantEvol Dec14-16 81
Tucson DrosophilaSpecies Oct25-28 81

BoulderCO PlantEvol Dec14-16

The MORPH Research Coordination Network is organizing a intensive minicourse entitled "Investigating the Evolution of Plant Form: Conceptual Integration from the Molecular to the Ecological" (December 14-16th, 2007) in Boulder, Colorado. This course and workshop will provide an opportunity for a select group of doctoral students and distinguished investigators in plant evolutionary developmental biology to interact. The goal will be to address current methodological and conceptual hurdles associated with the study of the evolution of plant form. In particular, participants will focus on the integration of developmental information across molecular, organismic and ecological levels of plant biology. In addition to presentations by the faculty, each student will outline critical issues associated with his/her own evolutionary developmental research for discussion by all participants.

In order to apply: 1 You must be a US citizen or associated with a US institution. 2 You must be a PhD student. 3 You must fill out an application cover sheet. 4 You must submit a 2 page description of the conceptual and research questions you propose to speak about during your 15 minute presentation (in pdf format). 5 Your advisor must submit a confidential one page letter of recommendation by the application deadline (in pdf format).

For more information, please see the MORPH website: <http://www.colorado.edu/eeb/MORPH> The deadline for applications is September 1, 2007

Pamela.Diggie@Colorado.EDU

Tucson DrosophilaSpecies Oct25-28

**** Drosophila Species Identification Workshop VII
 **** The Seventh Annual Workshop for Drosophila Species Identification and Use will be October 25-28, 2007 in Tucson, AZ. Instructors for this year's workshop include Patrick O'Grady, Steve Schaeffer, Wyatt Anderson, Bill Gelbart, Therese Markow, Nicolas Gompel, Bryant McAllister, and Sergio Castrezana. Participants will learn how to identify different Drosophila species as well as those aspects of their life history

and reproductive biology critical to their use in laboratory investigations. The workshop will focus upon the melanogaster, virilis, repleta, and obscura species groups and will include a field trip, FlyBase demo, and instruction in preparing and examining polytene chromosomes. This year's dinner keynote speaker will be Dr. Scott Hawley. The \$350 registration fee includes four days of instruction, course materials, morning and afternoon snacks, a traditional Mexican dinner at the home of Teri Markow, a dinner with keynote address at the Arizona Sonora Desert Museum.

Please see our website for details and the link to the online application. Preference will be given to investigators with minimal prior experience with non-melanogaster species. http://stockcenter.arl.arizona.edu/index.php?option=com_content&task=view&id Applications are due the 2nd of September.

**** Isofemale lines available **** New isofemale lines are available for a limited time: *Drosophila americana*: 18 lines from the midwestern US *Drosophila mojavensis*: 80 lines from the southwestern US More details can be seen at our website. http://stockcenter.arl.arizona.edu/index.php?option=com_content&task=view&id Please e-mail us at stockcenter@arl.arizona.edu to order.

**** New Stocks**** The following stocks have been added to our collection owing to the generosity of several of our customers: ISOFEMALE STOCKS *Drosophila americana americana* 15010-0941.16 (White River, Arkansas 1999) *Drosophila americana americana* 15010-0941.17 (Missouri River, Missouri 1999) *Drosophila americana americana* 15010-0941.18 (Ottawa, Ohio 2001) *Drosophila americana americana* 15010-0941.19 (Iowa River, Iowa 2004) *Drosophila hydei* 15085-1641.68 (Organ Pipe National Monument, Arizona 2007) *Drosophila melanogaster* 14021-0231.52 (Organ Pipe National Monument, Arizona 2007) *Drosophila melanogaster* 14021-0231.53 (Mauritius, 2006) *Drosophila melanogaster* 14021-0231.54 (Captain Cook, Hawaii 2007) *Drosophila nigrospiracula* 15081-1503.11 (Organ Pipe National Monument, Arizona 2007) *Drosophila packardii* 15090-1698.03 (Sonora, Mexico 2007) *Drosophila pseudoobscura* 14011-0121.150 (Organ Pipe National Monument, Arizona 2007) *Drosophila pseudoobscura* 14011-0121.151 (Flagstaff, Arizona 1993) *Drosophila simulans* 14021-0251.246 (Organ Pipe National Monument, Arizona 2007) *Drosophila simulans* 14021-0251.255 (Captain Cook, Hawaii 2007) *Drosophila simulans* 14021-0251.256 (Captain Cook, Hawaii 2007)

STOCKS with MUTATIONS *Drosophila pseudoobscura*

scura bogotana 14011-0121.152 (white eye, w[1])
 Drosophila erecta 14021-0224.06 (white eye, w[1])
 Drosophila erecta 14021-0224.07 (white eye, w[2])
 Drosophila erecta 14021-0224.08 (bristle phenotype, fw[w])

****Future Additions**** In a few weeks, we anticipate adding *D. orena*, *D. ambigua*, *D. nigromelanica*, and also more *D. americana* isolines that are currently in quarantine or undergoing expansion.

Therese Ann Markow Regents' Professor Department of Ecology and Evolutionary Biology BSW 310 University of Arizona Tucson, AZ 85721

Office: 520 621 3323 Lab: 520 626 2772 FAX: 520 626 3522

tmarkow@arizona.edu

<http://eebweb.arizona.edu/faculty/markow/index.htm>

<http://eebweb.arizona.edu/faculty/markow/index.htm>

tmarkow@public.arizona.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 notification of the availability of a monthly review pdf file.

To be removed from the EvolDir mailing list please send an email message to Golding@McMaster.CA. Note that 'on vacation', etc, style messages are automatically filtered and should not be transmitted to the list (I hope), but should you wish to avoid the e-mail's your code can be temporarily changed to 000000.

To send messages to the EvolDir direct them to the email evoldir@evol.biology.McMaster.CA. Do not include encoded attachments and do not send it as Word files, as HTML files, as L^AT_EX files, Excel files, etc. ... plain old ASCII will work great and can be read by everyone. Add a subject header that contains the correct category "Conference:, Graduate position:, Job:, Other:, Postdoc:, Workshop:" and then the message stands a better chance of being correctly parsed. Note that the colon is mandatory.

The message will be stored until the middle of the night (local time). At a predetermined time, the collected messages will be captured and then processed by programs and filters. If the message is caught by one of the filters (e.g. a subject header is not correctly formatted) the message will be sent to me at Golding@McMaster.CA and processed later. In either case, please do not expect an instant response.

Afterward

This program is an attempt to automatically process a broad variety of e-mail messages. Most preformatting is collapsed to save space. At the current time, many features may be incorrectly handled and some email messages may be positively mauled. Although this is being produced by L^AT_EX do not try to embed L^AT_EX or T_EX in your message (or other formats) since my program will strip these from the message.