
E v o l D i r

January 1, 2004

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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****Please Distribute Widely**** ****Apologies for Cross Postings****

THIRD CALL FOR ABSTRACTS

SEEC 2004 SOUTHEASTERN ECOLOGY AND EVOLUTION CONFERENCE GEORGIA INSTITUTE OF TECHNOLOGY ATLANTA, GEORGIA 5-7 MARCH 2004 <<http://www.biology.gatech.edu/SEEC/SEEC.html>><http://www.biology.gatech.edu/SEEC/SEEC.html> FREE REGISTRATION AND ABSTRACT SUBMISSION REGISTRATION AND ABSTRACT SUBMITTAL DEADLINE: 31 JANUARY 2004

We invite all graduate, undergraduate, and post-doctoral researchers studying in the environmental sciences to submit abstracts for either oral or poster presentations at the Southeastern Ecology and Evolution Conference (SEEC) to be held March 5-7, 2004, at the Georgia Institute of Technology in Atlanta, Georgia. Keynote speaker will be Dr. Mark Hay, Teasley Professor of Environmental Sciences at the Georgia Institute of Technology.

SEEC is a professional meeting intended for students in the environmental sciences to present their research to their colleagues in a comfortable, fun, and low stress environment. Such events are designed to encourage new friendships within our field and to share newly developed research ideas for feedback. While we expect most SEEC participants to be from the Southeast,

we encourage and welcome all interested individuals to submit abstracts and/or attend. Thus far, we have almost 50 registrants from 30 schools in 13 states and 2 countries. Don't miss out, because it is guaranteed to be blast ... or your registration fees back :)

To encourage attendance, registration is FREE and covers meeting attendance, two continental breakfasts, snacks, coffee, a t-shirt, and \$100 cash awards for the best oral and poster presentations. The registration and abstract submission deadline is January 31, 2004, and may be completed at the following web site:

Registration: <<http://www.prism.gatech.edu/~aw181/SEEC/Registration.htm>><http://www.prism.gatech.edu/~aw181/SEEC/Registration.htm> We look forward to seeing you at the Georgia Institute of Technology for the 1st Annual Southeastern Ecology and Evolution Conference this March!

For more information, go to <<http://www.biology.gatech.edu/SEEC/SEEC.html>><http://www.biology.gatech.edu/SEEC/SEEC.html> or email Alan Wilson at Alan Wilson <alan.wilson@biology.gatech.edu>

Boston ArtificialLife Sep12-15

Dear colleagues,

It is my great pleasure to be involved in the organization of the 'simulation and synthesis of living systems' con-

ference to be held here in Boston next year. Personally, I have enjoyed tremendous benefits from opportunities for cross-disciplinary work between evolutionary biology and evolutionary computation/artificial life and I am happy to invite you to participate in this exchange in the upcoming conference.

Richard Watson.

Call for Papers ARTIFICIAL LIFE IX

The Ninth International Conference on the Simulation and Synthesis of Living Systems

Boston, USA, 12-15 September 2004

ELECTRONIC SUBMISSION DEADLINE: JAN 30th 2004

<http://www.alife9.org>

Artificial life is the interdisciplinary enterprise investigating the fundamental properties of living systems through the simulation and synthesis of life-like processes in artificial media. The Artificial Life IX conference will showcase the best current work in this area of research, highlight promising new avenues of investigation, provide leading edge workshops, and present top keynote speakers. All authors of conference papers are encouraged to explain how their work sheds light on the fundamental properties of living systems and makes progress on important open questions. Paper submissions (6 pages single spaced) are welcome in all areas of the field, including:

- * Origin of life, self-organization, self-replication, artificial chemistries
- * Development and differentiation
- * Evolutionary and adaptive dynamics, evolutionary games, coevolution
- * Communication, cooperation and collective behavior
- * Simulation and synthesis tools and methodologies
- * Mathematical and philosophical foundations and implications of ALife
- * Applications of ALife technologies
- * Robots and agents, evolutionary robotics
- * New and creative syntheses in ALife

For a full list of topics see: <http://www.alife9.org/cfp.htm> Both oral and poster presentations will be published in a single volume by MIT Press. ALife 9 will also include a series of workshops and tutorials, which you are invited to propose. The conference web page, www.alife9.org, will provide the most current information about the meeting and venue.

Conference Chair: Dr. Jordan Pollack (Brandeis University) Program Committee Co-Chairs: Dr. Mark Bedau (Reed College), Dr. Phil Husbands (Sussex University), Dr. Takashi Ikegami (University of Tokyo), Dr. Richard Watson (Harvard University)

Conference Secretariat: Ms. Myrna Fox (Brandeis University)

Questions, concerns, and inquiries see <http://www.alife9.org/contact.htm>, or email secy@alife9.org, or phone (781) 736-2700.

Richard A. Watson lab: 617 495 1568 rwatson@oeb.harvard.edu www.oeb.harvard.edu/faculty/wakeley/richard

Cambridge StatMolBiol Mar22-23

MASAMB-XIV: 14th Annual Meeting on Mathematical and Statistical Aspects of Molecular Biology at the Isaac Newton Institute for Mathematical Sciences, Cambridge

Monday 22nd March - Tuesday 23rd March, 2004

Scientific Organisers: Nick Goldman, EBI-EMBL, Hinxton, Cambridge (goldman@ebi.ac.uk) Wally Gilks, MRC Biostatistics Unit, Cambridge (wally.gilks@mrc-bsu.cam.ac.uk)

Bioinformatics and statistical genetics, twin themes of the long-running series of annual MASAMB meetings, have gained huge impetus from large-scale genome sequencing projects and development of high-throughput biological assay systems, including gene-expression microarrays. These immense data resources, and the underlying complexities of molecular and cell biology, provide exciting research opportunities for numerate scientists.

With typically around 60-80 participants from mathematics, statistics, computer science, bioinformatics, biology and related fields, the MASAMB meetings provide an intimate setting for exchange of ideas in methodological and applied research. Research students and scientists newly entering the field of genomic research are particularly welcome.

The meeting will contain approximately 12 half-hour talks selected from participants' submissions, plus a poster session.

The cost of attendance at the meeting, including dinner on the Monday evening, will be:

£120 (full residential) or £90 (without accommodation),

or for full-time students:

£90 (full residential) or £60 (without accommodation).

This will be the only mailing of this notice! Please inform your colleagues of this notice!

If you would like to attend the meeting, please complete the on-line registration application form at <http://www.newton.cam.ac.uk/events/masamb/> *** by 31 December 2003 at the latest ! ***

(apologies for the late posting). Further information will only be sent to registered applicants. Accommodation will be quite limited for this meeting, and it is important that we get accurate estimates of numbers attending as soon as possible.

Further information on the meeting will also be posted, as it becomes available, at <http://www.ebi.ac.uk/-goldman-srv/masamb>. This site also contains information on past MASAMB meetings.

For questions on the scientific content of the meeting, please contact one of the organisers, above. On administrative matters, please contact:

Tracey Andrew (t.andrew@newton.cam.ac.uk) Isaac Newton Institute for Mathematical Sciences, 20 Clarkson Road, Cambridge CB3 0EH, UK

Colorado Fellowships Genomics Jan8-13

Student Fellowships for Evolution and Genomics meeting in early January

Due to a very generous grant from the NIH, we suddenly find ourselves with last-minute funds to support a number of advanced graduate students/post-docs for a very quickly upcoming Keystone meeting on Natural Variation and Quantitative Genetics in Model Organisms, to be held January 8 - 13, 2004 Beaver Run Resort in Breckenridge, Colorado. This exciting meeting is held concurrently with a meeting on the related topic on human genetic diversity. (links below) We thus encourage advanced graduate students/post-docs to apply for fellowships. Due to the very short time scale,

APPLICATIONS MUST BE SUBMITTED BY DEC 13TH.

Application structure:

Simple.

email the following information to jbwalsh@u.arizona.edu

(1) Full contact information (email, phone number, etc)

(2) A (SHORT) paragraph on your research/interests

(3) A (SHORT) paragraph on how you might benefit from attending this meeting.

(4) 2-3 references (with contact information, email, phone #)

That's it!

Details on the conference can be found at <http://www.keystonesymposia.org/Meetings/-ViewMeetings.cfm?MeetingID=671>

while information on Keystone meetings in general can be found at <http://www.keystonesymposia.org>

Bruce Walsh jbwalsh@u.arizona.edu Detlef Weigel weigel@weigelworld.org

Bruce Walsh <jbwalsh@u.arizona.edu>

Edinburgh Pteridophyte Jul12-16

An International Pteridophyte Symposium, 'Ferns for the 21st Century', will be held at the Royal Botanic Garden Edinburgh, UK from 12 -16 July 2004.

Further details are available at <http://www.rbge.org.uk/rbge/web/science/news.jsp>

Dr Mary Gibby Director of Science Royal Botanic Garden Edinburgh 20A Inverleith Row Edinburgh EH3 5LR, UK

Tel: +44 131 248 2973 Fax: +44 131 248 2901
m.gibby@rbge.org.uk www.rbge.org.uk

FortCollins SSB/SSE/ASN Jun26-30

<http://evolution04.biology.colostate.edu/>
SSB/SSE/ASN Joint Annual Meeting, Fort Collins, Colorado, 2004. - The joint meetings of the Society of Systematic Biologists, the Society for the Study of Evolution, and the American Society of Naturalists will be held in Fort Collins, Colorado from 26th-30th June, 2004 hosted by Colorado State University. June 26th is the day of the council meetings and opening reception; June 30th is a full day of talks followed by the awards banquet. Air travel should be arranged to

Denver International Airport. A regular shuttle service provides buses travelling from the airport to Fort Collins and the Colorado State University campus. For those driving to Fort Collins, free parking will be available on campus. Starting in January, a web site (under construction) will accept title submissions for presentations; title submission and early registration will end on March 31, 2004. For additional information, contact Mike Antolin, Department of Biology, Colorado State University, Fort Collins, CO 80523. Phone 970-491-1911, FAX 970-491-0649, e-mail Michael.Antolin@ColoState.EDU.

– Michael F. Antolin

Associate Professor of Biology Department of Biology Colorado State University Fort Collins, CO 80523-1878 U.S.A.

e-mail: michael.antolin@colostate.edu Voice: (1)-970-491-1911 FAX: (1)-970-491-0649

Granada BChromosome June

Dear colleague,

The Evolutionary Genetics Group (Departamento de Genética, Universidad de Granada, Spain) is pleased to announce that it is organizing the Second B-Chromosome Conference in June 2004. The Conference will be held at the Hotel Villa Turística de Bubión, in Bubión (Granada), a small mountain village located in the mountains of Sierra Nevada, the highest peaks of Iberia, at 67 km south of Granada. The Local Organizing Committee expect this self-contained venue to be a suitable and ideal forum for bringing together scientists working on every aspect of B-chromosomes, in a relaxed and friendly atmosphere, and we look forward to your participation.

With my best wishes,

Juan Pedro M. Camacho Departamento de Genética Universidad de Granada 18071 Granada Spain E-mail: jpmcamac@ugr.es web: <http://www.ugr.es/~cvi165/>
<http://darwin.ugr.es/bpo>

JAX Maine EvoNeurogenetics

JAX Neurogenetics Conference V June 9 - 12, 2004 The Jackson Laboratory Bar Harbor, Maine

This meeting provides a forum for researchers and students who work in areas of neurobiology that impact directly upon or use the laboratory mouse as a genetic model system. The laboratory mouse is widely considered the premiere experimental organism for genetic studies that have implications, often direct, for human neurological disorders. The Fifth workshop continues the tradition of bringing students and established investigators with varying expertise and experience together to discuss their research findings, identify areas of common research interest and develop future directions.

Session Topics: Complex traits of neurological disease Mouse mutant resources and mutagenesis programs Genetic mediation of pain Reverse and forward genetics approaches to mouse models of eye disease Mouse models of human genetic diseases: matches and misses Protein misfolding in neurodegenerative disease

Scientific Organizer: Wayne N. Frankel, Ph.D., The Jackson Laboratory

For additional information, please access the web page at: http://www.jax.org/courses/2004/-2004_neurogenetics_conference.html

Karen Grant Course Coordinator The Jackson Laboratory 600 Main Street Bar Harbor, Maine 04609-1500 Phone: 207-288-6263 Fax: 207-288-6080 E-mail: kgk@jax.org web address: <http://www.jax.org/courses> Office Hours: 7:00 am - 3:00 pm Monday - Friday Office Hours: 7:00 am - 3:00 pm Monday - Friday

Novosibirsk Bioinformatics Jul25-30

Dear Colleague: Program and Organizing Committees have honor to announce the traditional biennial event-The Fourth International Conference on Bioinformatics of Genome Regulation and Structure (BGRS'2004)-to be held on July 25-30, 2004, in Akademgorodok, Novosibirsk, Russia. Do put it in your diary, please!

BGRS'2004 is a multidisciplinary conference, and we are pleased to invite scientists with an interest in bioinformatics, mathematical, theoretical, or computational biology to attend the meeting.

Its scope includes development and application of advanced methods of computational and theoretical analysis to structure-function genome organization, pro-

teomics, and evolutionary and system biology. The event addresses the latest research in these fields, and will be a great opportunity for attendees to showcase their works.

BGRS'2004 provides a general forum for disseminating and facilitating the latest developments in bioinformatics in molecular biology, and we also invite scientists participating in experimental research and using theoretical and/or computational methods in their practice and/or researchers supported by INTAS grants to come. We will be delighted to see industry representatives from biotechnology and pharmaceutical companies as BGRS'2004 conferees, too.

Find, please, more detailed information in the attached file or at the official site of the conference <http://www.bionet.nsc.ru/meeting/bgrs2004/-announcement.html> We would be very grateful if you could spread this information among your colleagues who also could be interested in attending the Conference.

We do hope that you will be able to participate in the Conference, and try our best for your visit to be pleasant and fruitful.

Looking forward to see you in Novosibirsk, Program/Organizing Committees

BGRS2004 Committee <bgrs2004@bionet.nsc.ru>

Regensburg PopBio2004 May19-23

Dear Colleagues,

our internet pages are online. To get more information about the 17th Annual Meeting of the Section Plant Population Biology (Society for Ecology of Germany, Switzerland, and Austria) 19-23 May 2004 in Regensburg click the following address:

<http://www.biologie.uni-regensburg.de/Botanik/-Poschlod/popbio2004/>

The online registration starts on 23/12/2003. Please note that there was an error in our first circular in the phone and fax number of our institute. The complete number is:

Phone +49 941 943-3107 Fax +49 941 943-3106

Furthermore, please note that the link of the homepage has been slightly changed.

Best regards,

Wioletta Moggert

University of Regensburg Institute of Botany Prof. Dr. Peter Poschlod

D-93040 Regensburg

Tel. 0941 943 3107 Fax 0941 943 3106

wioletta.moggert@biologie.uni-regensburg.de

POP BIO <pop.bio@biologie.uni-regensburg.de>

Tucson EvolGenomics Jan16-17

EVOLUTIONARY GENOMICS MEETING

January 16-17, 2004, Marriott Hotel, Tucson, Arizona

Early registration deadline: December 15, 2003

The University of Arizona IGERT Program in Genomics is sponsoring an international meeting on evolutionary genomics. It will bring together leading researchers on genome evolution of both prokaryotes and eukaryotes, including empirical, theoretical, and computational approaches. The meeting will take place at the Marriott Hotel adjacent to the University of Arizona campus in Tucson January 16-17, 2004. The format of the meeting will allow considerable time for informal discussion and interaction among participants. Participation by graduate students and postdoctoral fellows is strongly encouraged, and discounted rates for registration are available. For registration and more information, please visit www.genomics.arizona.edu/meeting.html. Invited Speakers: Joy Bergelson (University of Chicago) Andy Clark (Cornell University) Laurent Duret (Université Claude Bernard) Terry Gaasterland (Rockefeller University) Philip Green (University of Washington) Evan Eichler (Case Western Reserve) Michael Eisen (U.C. Berkeley) Jessica Kissinger (University of Georgia) Wen-Hsiung Li (University of Chicago) Michael Lynch (Indiana University) Edward Marcotte (University of Texas) Julian Parkhill (The Sanger Institute) Loren Rieseberg (Indiana University) Christian Schlötterer (University of Vienna) Susan Wessler (University of Georgia)

– Michael Nachman Professor, Department of Ecology and Evolutionary Biology Director, IGERT Program in Genomics BioSciences West Bldg. University of Arizona Tucson, AZ 85721

Phone: (520) 626-4595 (office), 626-4747 (lab) Fax:

(520) 621-9190 Email: nachman@u.arizona.edu Email:
nachman@u.arizona.edu

Tucson EvolGenomics Jan16-17 2

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– Michael Nachman Professor, Department of Ecology and Evolutionary Biology Director, IGERT Program in Genomics Biosciences West Bldg. University of Arizona Tucson, AZ 85721

Phone: 520 626-4595 (office), 626-4747 (lab) Fax: 520 621-9190 Email: nachman@u.arizona.edu

GradStudentPositions

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Freising EvolutionaryObesityResearch	8	UBritishColumbia GenomeEvol	15
Helsinki EvolImmunocompetence	9	UHawaiiManoa LandSnails	15
Helsinki GMOs	9	UIDaho EvolEcol	16
Illinois NatHistSurv EvolBiol	10	ULondon EvolBiol	26
Muenster Celegans evolution	11	UMaryland OriolePhylogeny	17
Norwich PlantPopGenet	11	UMiami PlantMolSyst	18
PurdueU EcolSustainability	12	UTasmania Evol of LeafEating	18
Sweden 11 ForestGenetics	12	WestKentuckyU PlantMolSyst	18
TrinityCollege Bioinformatics	13		
UAdelaide MolEvol	13		

Short Predoctoral Marie Curie Training Positions Two Vacancies !!!

<http://www.ub.es/molevol/MarieCurieAnuncio.html>

The Molecular Evolutionary Genetics Group at Universitat de Barcelona <http://www.ub.es/molevol> has been selected as a Marie Curie Training Site in Molecular Population Genetics and Evolution by the EU Commission (Contract No. HPMT-2000-00108). Short training fellowships of 6-12 months are available to non-Spanish EU registered predoctoral students. Fellows will receive an allowance of 1200 euros per month.

Within the area of Molecular Population Genetics and Evolution, the host group studies nucleotide variation at both the intraspecific and interspecific levels in different species of *Drosophila* and of *Cruciferae*. This work aims to establish the role of natural selection in shaping nucleotide variation, and also to infer the evolutionary history of populations and/or species.

Further details of the research programme of the group, and the job description for the present vacancies are available from the group's web site: <http://www.ub.es/molevol/MarieCurieAnuncio.html> <http://www.ub.es/molevol> Main Marie Curie Requirements:

Nationality All fellows must be nationals of an EU Member or Associated State, or have resided in the EU for at least five years immediately prior to their selection.

Mobility They must not undertake their fellowship in the country of their nationality or recent centre of activity.

Age At the time of selection the fellow must be 35 years old or less.

Research Experience The scheme is directed to post-graduate researchers pursuing doctoral studies in a subject area similar to that of the Training Site. Applicants should be affiliated to a University as PhD students both at the time of application and during the Marie Curie training fellowship.

Montserrat Aguadé Departament de Genètica, Facultat de Biologia, Universitat de Barcelona Diagonal 645, 08028 Barcelona Spain E-mail: aguade@bio.ub.es

BayreuthU LifeHistoryEvol

Arthropod egg size is a particularly important trait in

life-history evolution because it is positively related to fitness, but at the same time constrains fecundity. Although egg size has been found to vary among and within populations, only few empirical studies have progressed much beyond documenting patterns of variation. This PhD project aims at disentangling the physiological processes and genetic architecture of the hormonal control of egg size, focusing on juvenile hormone. As hormone systems are primary coordinators for the organism, their study can be expected to yield evolutionarily relevant patterns of pleiotropy and the architecture of life history traits in general. This project is part of a bigger project at Bayreuth University, aiming at developing a more complete and integrated understanding of the evolution of egg size. Successful applicants are expected to have a keen interest in evolutionary biology and the mechanisms involved in life-history evolution. Experience with lab-based experiments, analytical (LC/MS) or molecular techniques would be an advantage. Applications (preferably by email) should include a CV and a short statement of research interests and skills. For further information look at <http://www.uni-bayreuth.de/grako678/-media/offenstellen-engl.htm> (also for other positions) or contact Dr. Klaus Fischer (klaus.fischer@uni-bayreuth.de) or Prof. Dr. Klaus H. Hoffmann (klaus.hoffmann@uni-bayreuth.de).

Dr. Klaus Fischer Department of Animal Ecology I University of Bayreuth D-95440 Bayreuth, Germany Phone: + 49-921-553079 Fax: + 49-921-552784 E-mail: Klaus.Fischer@uni-bayreuth.de

Freising EvolutionaryObesityResearch

PhD studentship in Animal Molecular Genetics / Obesity Research

Available from January 1, 2004

The Chair of Animal Breeding of the Technical University of Munich (Prof. Fries) offers a position for an outstanding and highly motivated individual to perform experimental work and to prepare a doctoral thesis (Dr. rer. nat., Dr. agr., Dr. med. vet., or Dr. med.). Required is a qualified degree in biology, agriculture, veterinary medicine or medicine, and the ability to quickly adopt molecular genetic methods and genetic statistical / bioinformatic skills. Knowledge of the German language is advantageous but not required. The Chair of

Animal Breeding is situated in the stimulating environment of the Center of Life Sciences in Weihenstephan, close to Freising (about 40 kilometers north of Munich). Payment is at the level of BAT IIa / 2.

The DFG-funded (German NSF) project will investigate the genetic basis of lipid metabolism in pigs. It is based on the analysis of F2 and F3 animals resulting from crossing of a lean swine breed (Piétrain) with a breed having a very high lipid deposition capacity (Mangalitzza). The breeds differ also in their circadian food intake behaviour. The goal is to identify and analyse genes that play a key role in lipid metabolism and feeding behaviour using genetic mapping, bioinformatic data mining and gene expression studies. Such genes are candidates for human obesity and diabetes type II and will be analysed further in the context of the human diseases in the laboratory of Prof. Hebebrand (Clinical Research Group, Clinic for Child and Adolescent Psychiatry, University of Marburg).

Please submit a curriculum vitae, grade transcripts and a letter of reference to the address below.

Olaf Bininda-Emonds

————— Olaf Bininda-Emonds Lehrstuhl für Tierzucht Technical University of Munich Alte Akademie 12 85354 Freising-Weihenstephan Germany

Phone: +49 8161 713741 Fax: +49 8161 713107 e-mail: Olaf.Bininda@tierzucht.tum.de WWW: <http://www.tierzucht.tum.de/Bininda-Emonds/>

Helsinki EvoImmunoCompetence

Position for a Ph.D. student at the University of Helsinki/ 20042006

Description: The project 'Evolutionary and functional ecology of immunocompetence' studies the ecological consequences of allocation into immunocompetence for developing organisms. The project deals with avian model systems, where T-cell-mediated immunocompetence in nestling birds is experimentally manipulated. Functional ecological consequences include the trade-off between nestling growth and immunocompetence. Evolutionary ecological consequences focus on understanding the putative long-term effects of immunocompetence for an individuals survival and for sexual ornamentation. See also Brommer, JE (2003) Immunocompetence and its costs during development: An experimental study in blue tit nestlings. *Biology Letters*

(DOI: 10.1098/rsbl.2003.0103). This project is funded for the period 1.1.2004–31.12.2006. Salary class A18 (c. 1610 euro/month).

Candidate: Applicants are required to have a M.Sc./equivalent grade or to be able to obtain such a grade within four months of the start of the project. Experience in working with birds, experience with physiological techniques (especially for quantifying immunocompetence), experience with molecular techniques, and experience of field work are factors that contribute to the ranking of candidates, but are in themselves not considered essential.

Responsibilities: The student is responsible for semi-independently collecting the data from the field (c. two months annually), including carrying out a large part of the planned experiments and measurements on the birds. The student will be responsible for the analysis of the physiological and other material collected in the field. Parts of these analyses include DNA work. Data analysis and writing of articles (a Finnish thesis consists of at least four articles) is done in cooperation with J.E.B. and cooperation partners.

More information: jon.brommer@helsinki.fi

Application: In English. Please send:

- A letter freely describing your experience in studying biology, why you are interested in this project and what your expectations are.

- Curriculum Vitae (please include information about the timing of acquiring your grade, whether you have an E.U.-recognized license to carry out animal experiments and which languages you speak).

- Two letters of recommendation.

to:

Jon E. Brommer Bird Ecology Unit Department of Ecology and Systematics P.O. Box 65 (Viikinkaari 1) FIN 00014 University of Helsinki Finland.

Deadline: 16th January 2004.

Jon Brommer <jon.brommer@helsinki.fi>

Helsinki GMOs

Ph.D. position for 20042007 at the Department of Biological and Environmental Sciences, University of Helsinki, Finland

ECOLOGICAL RISKS OF GENE MANIPULATED ORGANISMS

The introduction of gene manipulated organisms (GMO's) to agricultural, fisheries and forestry practices involves risks, such as competitive replacement of natural species, hybridization between GMO and wild populations, and cascade of changes in the community composition through food chains. Despite the great economic and public interest involved, little ecological work has been conducted so far to directly address these questions.

The aim of the present Ph.D. project is to increase understanding of the benefits and costs of genetic manipulation on individual fitness, which is expected to depend on the characteristics of the manipulated trait and the density and frequency of GMO's and natural populations. The project will develop life-history theory to predict GMO introductions' effects on population dynamics, species persistence, and community composition. The project will also develop new methods for ecological risk analysis.

We are looking for an individual with the following qualifications: - M.Sc. degree (or equivalent) in ecology or other relevant discipline - broad interest in different ecological questions - knowledge of (or motivation to learn) ecological theory and population modelling - motivation to obtain a Ph.D. degree in four years

The work is to be carried out at the Department of Biological and Environmental Science, University of Helsinki. The work will be supervised by prof. Veijo Kaitala and Dr. Sami Aikio. Other members of the team are: prof. Esa Ranta (Univ. Helsinki), prof. Per Lundberg (Univ. Lund, Sweden), prof. William Sutherland (Univ. East Anglia, UK) and Dr. Johanna Mappes (Univ. Jyväskylä, Finland). Our group is part of the ESGEMO-research programme (<http://www.honeybee.helsinki.fi/esgemo/>) funded by the Academy of Finland.

The salary is approx. 1724 EUR/month (salary bracket A19).

Send your application (in Finnish or in English), including a curriculum vitae, a summary of research interests and motivation for the project, and letters of recommendation, by January 23, 2004 to:

Prof. Veijo Kaitala, Department of Biological and Environmental Science, P.O. Box 65 (Viikinkaari 1), FIN00014 University of Helsinki, FINLAND.

For further information, contact Veijo Kaitala by e-mail: veijo.kaitala@helsinki.fi, or call: +358 9 191 577 23.

Illinois NatHistSurv EvolBiol

GRADUATE RESEARCH ASSISTANT IN ENTOMOLOGY/EVOLUTIONARY BIOLOGY. Illinois Natural History Survey.

The Illinois Natural History Survey invites applications for a two-year Graduate Research Assistant position with 50% RA (\$1682/month plus tuition) to participate in an NSF-supported project on the behavior, systematics, and evolution of leafhoppers as outlined below. The student is expected to work toward his or her M.S. degree at the Department of Entomology (<http://www.life.uiuc.edu/entomology/home.html>) or in the Program in Ecology and Evolutionary Biology (<http://www.life.uiuc.edu/programs/PEEB/>) of the University of Illinois at Urbana-Champaign. The position is available starting in the Spring of 2004. The requirements are the B.S. degree in biology and strong interest in insect biology and systematics or/and evolutionary biology and behavior.

HOMOPLASTIC EVOLUTION OF A STEREOTYPED BEHAVIOR AND ASSOCIATED STRUCTURAL AND PHYSIOLOGICAL TRAITS IN THE LEAFHOPPER GENUS CUERNA (INSECTA: HEMIPTERA, CICADELLIDAE). Some New World leafhoppers display a unique and little-understood maternal behavior, egg-powdering: females coat their eggs with brochosomes, specialized secretory products of the Malpighian tubules. They also display corresponding structural and physiological modifications. Our data indicate that this behavior has been secondarily lost or lost-and-restored in particular lineages multiple times. Among ca. 30 species of the North American genus Cuerna, some are "powdering" and some "non-powdering". The idea of this three-year project is to reconstruct the evolution of egg-powdering in Cuerna as a model of decay and loss of a complex biological function at the species level. The study will include the following components: -Collecting Cuerna in multiple trips within the U.S. and to Mexico and Canada. -Comparative field and laboratory observations of oviposition behaviors. -Comparative microanatomical study of the Malpighian tubules. -Morphometrical study of the sexual dimorphism in the leg chaetotaxy. -DNA sequencing and phylogenetic analyses. -Comparative morphological study and a taxonomic revision of Cuerna.

450045 <http://www.jic.bbsrc.ac.uk/staff/james-brown>
– Bob O'Hara

Rolf Nevanlinna Institute P.O. Box 4 (Yliopistonkatu
5) FIN-00014 University of Helsinki Finland Tele-
phone: +358-9-191 23743 Mobile: +358 50 599
0540 Fax: +358-9-191 22 779 WWW: [http://-](http://www.RNI.Helsinki.FI/~boh/)
www.RNI.Helsinki.FI/~boh/

PurdueU EcolSustainability

Eight (8) doctoral fellowships are available in multi-disciplinary ecology at Purdue University. Support for fellows is guaranteed for 5 years, with annual awards of up to \$21,500 sponsored by the U.S. Department of Education's program for Graduate Assistance in Areas of National Need (GAANN) and Purdue University. Fellows will: 1) be selected from highly qualified candidates, including targeting those from historically underrepresented groups; and 2) subsequently participate in an integrated program that includes instruction in both research and teaching methods, mentored teaching experience in several course formats, and the conduct of significant research across a spectrum of basic and applied ecological topics. Faculty participants in the program have broad interests in studying ecological systems and species in dynamic, fragmented landscapes at multiple scales and using multiple approaches. Prospective applicants are encouraged to visit <http://bilbo.bio.purdue.edu/~pices/gaann.html> for a list of participating faculty and their areas of research interest and to contact faculty with whom they are interested in working before submitting a formal application. Purdue University is an equal opportunity/equal access institution.

J. Andrew DeWoody 1159 Forestry Building Purdue University West Lafayette, IN 47907 765-496-6109 dewoody@purdue.edu

Sweden 11 ForestGenetics

The research school "Forest Genetics and Breeding" are looking for eleven post-graduate students who will develop forest genetic research in Sweden The Swedish

University of Agricultural Sciences (SLU) is forming a new research school in cooperation with the Swedish forest industry and the Forestry Research Institute of Sweden (Skogforsk). The school is linked to the plant development research programme at UPSC (Umeå Plant Science Centre). UPSC is one of the world leading centers for research in forest biotechnology/genetics with a lot of international collaborators.

Your background should, typically, be a B.Sc. in biology, forestry, chemistry, mathematics, statistics or biotechnology The research school offers supervision and technical platforms of international top-class quality. The preliminary start date is February , 2004.

The positions are funded for five years, 20 percent of which will be spent at a forest company where you will be employed as a post graduate student. The intention of the graduate school is to increase contacts and exchange of competence between the universities and the industry.

A complete application for each position, (list below) marked with the Ref No. should be submitted to the Registrar of SLU, Box 7070, SE-750 07 Uppsala, Sweden, or, for position 5 only, Registrar, Umeå University, S-901 87 Umeå, Sweden., Ref. nr 313-3906-03 no later than January 16, = 2004.

More information about the research school can be obtained at http://www.upsc.nu/images/-Forskarskola_eng.pdf or from the program director, professor Bengt Andersson, email: Bengt.Andersson@skogforsk.se.

List of Positions

1. Breeding theory with focus on seed orchard establishment (Ref. No.4718/03 3372) Localisation: Dept. of Forest Genetics and Plant Physiology, UPSC, SLU-Umeå. Information: Patrik.Waldmann@rni.helsinki.fi
2. Genetic markers for quantitative traits in tree breeding (Ref. No. 4719/03-3379) Localisation: Dept. of Forest Genetics and Plant Physiology, , UPSC, SLU-Umeå. Information: Bengt.Andersson@skogforsk.se
3. Breeding value assessment with emphasis on economic weights (Ref. No. 4720/03-3383) Localisation: Dept. of Plant Biology and Forest Genetics, SLU-Uppsala Information: Gunnar.Jansson@skogforsk.se
4. Temporal changes in trait expressions and relationships between traits (Ref. No. 4721/03-3534) Localisation: Dept. of Forest Genetics and Plant Physiology, , UPSC, SLU-Umeå Information: Bengt.Andersson@skogforsk.se
5. Coancestry and genetic structure in forest tree populations (Ref. No. 313-3906-03, Note: application

should be submitted to Umeå University, see=

above for address) Localisation Dept. of Ecology and Environmental Science, Univ. of Umeå Information: Par.Ingvarsson@eg.umu.se

6. Early flowering a tool for shortened generation time in tree breeding=

(Ref. No. 4722/03-3592) Localisation: Dept. of Forest Genetics and Plant Physiology, UPSC, SLU-Umeå Information: Ove.Nilsson@genfys.slu.se

7. A genomics approach to identify the genes regulating productivity in trees (Ref. No. 4723/03-3623) Localisation: Dept. of Forest Genetics and Plant Physiology, UPSC, SLU-Umeå Information: Rishi.Bhalerao@genfys.slu.se

8. Identification of the regulators of fibre quality (Ref. No. 4724/03-3750) Localisation: Dept. of Forest Genetics and Plant Physiology, UPSC, SLU-Umeå Information: Alan.Marchant@genfys.slu.se

9. Genetic variation in wood properties (Ref. No. 4725/03-3769) Localisation: Dept. of Plant Biology and Forest Genetics, SLU-Uppsala. Information: Gunnar.Jansson@skogforsk.se

10. Genetic mapping of resistance factors against root rot in Norway spruce

(Ref. No. 4726/03-3821) Localisation: Dept. of Forest Mycology and Pathology, SLU-Uppsala Information: Jan.Stenlid@mykopat.slu.se

11. Identification of genes involved in providing resistance to biotic stress (Ref. No.4727/03-4278) Localisation: Department of Animal Ecology, SLU-Umeå Information: joakim.hjalten@szooek.slu.

Pär K. Ingvarsson, PhD, docent E-mail: pelle@eg.umu.se Assistant Professor Tel: +46-(0)90-786-7414 Umeå Plant Science Centre Fax: +46-(0)90-786-6705 Dept. of Ecology and Environmental Science <http://mendel.eg.umu.se> University of Umeå, SE-901 87 Umeå, Sweden

TrinityCollege Bioinformatics

A Ph.D. position is available in the lab of Aoife McLysaght in the Genetics Dept. of Trinity College Dublin, Ireland. Our lab research is on many aspects molecular evolution and is conducted exclusively through bioinformatics methods (no 'wet' lab).

The successful candidate would undertake a 3 year course of Ph.D. studies through research.

For more information look at

lab website: <http://www.gen.tcd.ie/molevol> Dept. website: <http://www.tcd.ie/Genetics>

- Aoife McLysaght e-mail: mclysaga@tcd.ie Genetics Department tel: +353-1-6083161 Trinity College fax: +353-1-6798558 Dublin 2 Ireland

UAdelaide MolEvol

PhD POSITIONS IN ADAPTIVE MOLECULAR EVOLUTION

I am seeking PhD students interested in using comparative molecular sequence analysis or computational methods such as computer simulation to study adaptive evolution at the molecular genetic level. These approaches are being applied to outstanding problems in adaptive evolution, including the evolutionary maintenance of sex, the role of positive selection in maintaining protein polymorphism, the role of adaptation in speciation and taxonomic radiations, the adaptation of HIV to specific immunity, and the evolution of novel protein function through gene duplication. Suggestions for research topics are welcome.

Positions will be held in the Discipline of Genetics (www.mbs.adelaide.edu.au/research/genetics) in the University of Adelaide's School of Molecular and Biomedical Science. Genetics is part of a vibrant research environment and is housed in a modern research building together with the Disciplines of Biochemistry and Microbiology & Immunology. Opportunities exist for collaborations with evolutionary biologists in the Discipline of Environmental Biology (www.ees.adelaide.edu.au/research/enviro) and at the South Australian Museum (www.samuseum.sa.gov.au/ebustaff.htm). Students will have access to the latest computer workstations and software and to high performance computing resources housed on campus as part of the South Australian Partnership for Advanced Computing (www.sapac.edu.au).

FUNDING I have one University of Adelaide Scholarship available. To be eligible for this scholarship you must be an Australian citizen, a New Zealand citizen, or an Australian Permanent Resident. For details of the scholarship and eligibility, please go to www.adelaide.edu.au/graduatecentre/scholarships/

postgrad/pgforms.html and download the file "Scholarship Conditions of Award 2003".

INFORMATION AND APPLICATION For further details, please contact me via email. To apply, please send me your c.v. and a cover letter via email as soon as possible.

Dr. Jack da Silva Discipline of Genetics School of Molecular & Biomedical Science University of Adelaide Adelaide, SA 5005 AUSTRALIA

Tel. +61 8 8303 8083 Fax +61 8 8303 4362 Email jack.dasilva@adelaide.edu.au Web www.mbs.adelaide.edu.au/people/jdasilva.html

UAlaska EvolPlantMatingSystems

Ph.D. Studentship/Research Assistantship, University of Alaska Evolution of Plant Mating Systems

Four years of funding are available at UA Fairbanks to support a Ph.D. student to collaborate on an NSF-funded project examining the evolution of outcrossing rates, floral morphology, and late floral development in relation to pollinator environments. The study system includes all species of *Collinsia* /*Tonella* (Plantaginaceae /Scrophulariaceae), a clade of ca. 22 species showing evolutionary lability in mating-system evolution. The successful candidate will be part of a larger collaborative effort involving Naoki Takebayashi (Fairbanks), Bruce Baldwin (UC Berkeley), and Susan Kalisz (University of Pittsburgh), and short rotations between labs will be encouraged. Field work will be conducted in California, Oregon, and possibly Canada. Additional information on the study system can be found in Armbruster et al. 2002. *American J. Botany* 89: 37-49. The successful candidate would start graduate studies in August 2004, although participation in the spring/summer 2004 field season would be an advantage. UAF has active graduate and research programs in evolutionary biology (see <http://mercury.bio.uaf.edu/iab>). Further information can be obtained from Scott Armbruster (ffwsa@uaf.edu), to whom informal application materials can be sent. Formal application must follow University of Alaska Fairbanks procedures (see www.uaf.edu).

- - Scott Armbruster

School of Biological Sciences King Henry Building, King Henry I Street University of Portsmouth Portsmouth PO1 2DY UK

Scott.Armbruster@port.ac.uk Phone: 44 (0)23 9284 2081 Fax: 44 (0)23 9284 2070

and Institute of Arctic Biology University of Alaska Fairbanks AK 99775 USA

ffwsa@uaf.edu

UAntwerp EvolIntertidal Inverts

PhD vacancy

Effects of environmental stress on the genetic structure of natural populations of intertidal invertebrates

Function Starting from the first of January 2004, a researcher will be recruited for a period of four years on a BOF-NOI project. The successful candidate will investigate the population genetic structure of intertidal organisms in relation to the dynamic environment in which they live. More specific the project aims to assess following objectives:

- (1) Do anthropogenic and/or natural stressors affect the genetic structure of natural populations and do they result in a genetic variability decrease?
- (2) Which mechanism(s) are responsible for the observed molecular patterning?
- (3) Are these mechanisms initiated through adverse mutational, physiological or ecological effects and can they be quantified?

This research will be performed on intertidal mollusc species and will mainly be conducted along the Scheldt estuary (The Netherlands). The genetic structure will be determined through the use of different DNA techniques, while the degree in which adverse mutational, physiological or ecological effects, affect the molecular patterning will be assessed in a time-to-event laboratory experiment.

Profile

We are looking for a highly motivated MSc in Biology, Biochemistry, Biomedical Sciences or an Ir in Biological Sciences, experienced in molecular techniques (PCR, SSCP, Microsatellites, Cloning, Sequencing) and/or DNA damage assays.

Interested?

Interested candidates are invited to send their CV, covering letter in English and picture, preferably via e-mail to:

Dr. Hans De Wolf
Ecofysiologie, Biochemie & Toxicologie Groep
Department Biologie
Universiteit Antwerpen
Groenenborgerlaan 171
B-2020 Antwerpen
Tel: 0485475157
e-mail: hans.dewolf@ua.ac.be

UBritishColumbia GenomeEvol

A graduate student position (M.Sc. or Ph.D.) is available in the laboratory of Dr. Naomi Fast at the University of British Columbia (UBC). This position can start in either May or September 2004 and is in the area of parasitic adaptation and genome evolution. Research focuses on the highly adapted unicellular parasites, Microsporidia, and examines such topics as the effects of genome reduction on intron evolution and the effects of lateral gene transfer on parasitic adaptation. Molecular biology, bioinformatics and molecular phylogenetics are all tools involved in my research program. Microsporidia are incredible organisms, and those interested are encouraged to visit my website at <<http://www.botany.ubc.ca/fast.html>> for a brief introduction to these organisms and my research interests.

UBC is located in beautiful Vancouver on Point Grey – a peninsula of land allowing views of both the ocean and mountains from campus. The city and surroundings offer a range of both cultural and outdoor activities. For some photos of the city, please visit the Vancouver Tourism site at <<http://www.tourismvancouver.com/cgi-bin/gallery.cgi>> . UBC possesses a strong group of scientists studying evolution, including molecular evolution and microbial diversity. Therefore, the environment for scientific interaction is excellent.

Those interested in more information or to apply for this position, please contact Naomi Fast directly at <nfast@interchange.ubc.ca> and apply to the UBC graduate program at <<http://www.botany.ubc.ca/grad/index.html>> .

Naomi M. Fast Assistant Professor Dept. of Botany
University of British Columbia #3529-6270 University
Blvd. Vancouver, B.C. V6T 1Z4 Canada

Office Tel: +1-604-822-1630 Lab Tel: +1-604-822-4892

Fax: +1-604-822-6089 nfast@interchange.ubc.ca

UHawaiiManoa LandSnails

I recently sent out the message below. I am sending it again in order to encourage more prospective graduate students to apply. I encourage anyone interested in systematics/evolution to apply, even if you lack experience in molecular techniques (though you would need to be at least interested in learning them). A major part of the project will also involve morphological analysis.

Robert Cowie

—Original Message— From:
evoldir@evol.biology.mcmaster.ca
[mailto:evoldir@evol.biology.mcmaster.ca] Sent: Tuesday, November 04, 2003 8:12 PM To: cowie@hawaii.edu
Subject: graduate student position to work on Pacific island land snail evolution

To prospective graduate students.

We are looking to recruit a new graduate student to work in my lab at the University of Hawaii on the systematics, phylogenetics and biogeography of Pacific island succineid land snails. The project is funded by the National Science Foundation. Dr. Marta deMaintenon is the co-PI.

In order to apply, in the first instance you need to apply for admission to the graduate program in the Department of Zoology at the University of Hawaii: <http://www.hawaii.edu/zoology/>. Check the website for admission requirements, and note especially the need to have not only the general GREs but also the Biology subject GRE. If you are interested, send me an e-mail with a cv and we can discuss it further.

The following is the formal announcement of the graduate assistantship that would support the new graduate student for the initial 2 years. Other funding will be sought in order to support the student beyond this.

POSITION ANNOUNCEMENT

University of Hawaii at Manoa

Center for Conservation Research and Training Pacific Biomedical Research Center

Graduate Research Assistantship available

The Project TITLE: Revision and phylogeographic analysis of Pacific island succineid land snails OBJECTIVES: The project will undertake a systematic revi-

sion of the entire Pacific island succineid fauna (about 80 species). In addition, the project will investigate the evolutionary and geographic origins and diversification of the species and the routes via which, over evolutionary time, they have colonized these myriad islands. APPROACH: The project will use both traditional analysis of morphological variation as well as modern DNA sequencing approaches and analytical methodologies.

Duties The GA will undertake a major part of the laboratory work, and may have some opportunity to travel in the islands of the Pacific. Ideally, he/she will develop his/her own dissertation research based on the project and expanding it.

Minimum Qualifications Classified full-time graduate student admitted to and enrolled in the MS program in the Department of Zoology. Experience in molecular genetics (DNA sequencing).

Desirable Qualifications Enrolled in the Ph.D. program in the Department of Zoology. Experience with phylogenetic analysis. Experience with anatomical dissection and characterization of mollusks.

Position Details The position is funded by NSF through the Center for Conservation Research and Training for a period of 2 years. The position is 0.50 FTE (i.e., 20 hours per week) and will begin the fall semester of 2004 (probably 1 September 2004).

Salary Salary commensurate with qualifications and experience. Minimum \$1296.50/month.

How to Apply As soon as possible, submit (via e-mail) a cv and a message explaining your interest to: Dr. Robert Cowie - cowie@hawaii.edu Phone: (808) 956-4909

Deadline Continuous recruitment, applications will be reviewed beginning 1 December 2003 until the position is filled.

Dr. Robert H. Cowie Center for Conservation Research and Training University of Hawaii 3050 Maile Way, Gilmore 408 Honolulu, Hawaii 96822 USA

Phone: (808) 956 4909 Fax: (808) 956 2647/9608

EECB: http://www.hawaii.edu/eecb/eecb_faculty/-robertcowie.html Samoan Snail Project: <http://www2.bishopmuseum.org/PBS/samoasnail/> IUCN (Tentacle): <http://www.hawaii.edu/ccrt/tentacle.html>

“Robert H. Cowie” <cowie@hawaii.edu>

UIdaho EvolEcol

GRADUATE RESEARCH ASSISTANTSHIPS IN EVOLUTIONARY ECOLOGY

Several exciting graduate research assistantships in evolutionary ecology are available at Washington State University <http://www.sci.wsu.edu/sbs/-index.php3> and the University of Idaho. As part of the Initiative in Organismal Interactions (<http://www.sci.wsu.edu/sbs/index.php3>), we offer excellent opportunities for graduate study in a highly interactive environment with very real strengths in ecology, evolution and evolutionary genetics. All positions are part of federally funded grants to individual investigators for the following projects:

Host-parasite coevolution - Funding for a graduate Research Assistant is available for work in the lab of Mark Dybdahl at Washington State University. Our current focus is on snail-trematode coevolution, and our interests include microevolutionary processes and macroevolutionary pattern. We combine studies of natural populations, molecular genetic marker surveys, and laboratory infection experiments. More information is available at <http://www.wsu.edu/~dybdahl/>. Contact information: Dr. Mark Dybdahl, School of Biological Sciences, Washington State University, Pullman WA 99164. E-mail: dybdahl@wsu.edu.

Theoretical ecology - The Gomulkiewicz Lab at Washington State University has RA support available for a student interested in developing theory or statistical methods in population ecology that can be used to analyze patterns of community diversity. Work would focus on combining species coexistence mechanisms with ecological drift. Contact Dr. Richard Gomulkiewicz at gomulki@wsu.edu for further information.

Evolutionary ecology of plant and pollinator interaction - The Morgan Lab at Washington State University has openings for students interested in modeling and empirical work on interactions between plants and their pollinators, including conservation biology consequences. Two 1 year RAships are available for this NSF-supported research. Visit <http://www.wsu.edu/~mmorgan/> and contact Dr. Martin Morgan mmorgan@wsu.edu for more information.

Coevolutionary theory - The Nuismer Lab at the University of Idaho currently has openings for two theo-

retically inclined Ph.D. students interested in the evolution of species interactions. These positions are funded by a grant from the National Science Foundation and will provide competitive funding in the form of Research Assistantships. An undergraduate degree in mathematics is NOT required for these positions. Any motivated biologists with a solid background in basic mathematics and an interest in pursuing evolutionary theory are encouraged to contact: Dr. Scott L. Nuismer, Department of Biological Sciences, University of Idaho, Moscow ID 83844. E-mail: snuismer@uidaho.edu. More information is available at http://www.webpages.uidaho.edu/~snuismer/Nuismer_Lab/.

Evolution, selection, and genetics of "function-valued traits" - Function-valued traits are traits that can be described as a mathematical function of a continuous variable. Examples include growth trajectories (size as a function of age), gene expression profiles, morphological shapes, and environmentally sensitive traits (such as temperature-dependent performance). A graduate research assistantship is available for a student interested in working on theoretical or statistical aspects of the genetics, selection, or evolution of these complex traits. Contact either Dr. Patrick Carter (pacarter@wsu.edu; see also <http://www.wsu.edu/~pacarter/>) or Dr. Richard Gomulkiewicz (gomulki@wsu.edu; see also <http://www.wsu.edu/~pacarter/>) for more information.

Sincerely,

Scott

Scott Nuismer Assistant Professor Department of Biological Sciences University of Idaho Moscow, ID 83844 (208) 885-4096 phone (208) 885-7905 fax http://www.webpages.uidaho.edu/~snuismer/Nuismer_Lab/

Nuismer <snuismer@uidaho.edu>

ULondon EvoIBiol

Studentships available

The School of Biological Sciences, Queen Mary, University of London is a friendly and youthful department that encourages interdisciplinary research both within the School and with the School of Medicine and Dentistry. The School, which has a number of the country's leading researchers in areas such as Biochemistry, Evolutionary Genetics and Freshwater Biology, has re-

cently invested over £3million in state-of-the-art equipment for research, making it one of the best equipped Biological Science departments in London.

We are delighted to offer up to twelve NERC, BBSRC and College studentships in the following areas: protein structure and function; genetics and evolutionary biology; cell signalling, neuro and developmental biology; the aquatic and terrestrial environment. Applications are welcomed from individuals with, or expecting to gain, a relevant upper second or first class degree (or equivalent).

Enquiries should be directed to Mrs M Moran, m.moran@qmul.ac.uk

t.m.burland@qmul.ac.uk

UMaryland OriolePhylogeny

Ph.D. Research Assistant 'Oriole Molecular Phylogeny and Behavior' UMBC, Dr. Kevin Omland

Graduate students sought interested in a five year NSF funded project on oriole phylogeny, speciation and hybridization. Main goal of project is to combine data from multiple introns to test the mitochondrial phylogeny, and use the combined data trees to reconstruct the history of sexual dichromatism in orioles. Other aspects of the project include comparisons of female behavior in species with elaborate vs. cryptic females, and the use of introns to test for gene flow across the Baltimore 'Bullock's hybrid zone. Students that have strong interests and experience in one or more of the following are especially encouraged to apply: molecular phylogeny; avian behavior; field work in Mexico. For additional information and to let me know of your interests please send a brief letter of interest and CV to:

Kevin Omland omland@umbc.edu Assistant Professor Dept. of Biological Sciences University of Maryland Baltimore County 1000 Hilltop Circle Baltimore, MD 21250 410-455-2243 (phone) 410-455-3875 (fax) <http://www.umbc.edu/biosci/Faculty/omland.html>

Kevin Omland <omland@umbc.edu>

UMiami PlantMolSyst

Graduate Assistantship in Plant Molecular Systematics
University of Miami

A NSF-funded graduate assistantship is available for a M.S. or Ph.D. student in the lab of Dr. Barbara Whitlock at the University of Miami beginning fall, 2004. The student will participate in a project on the phylogeny and biogeography of Lasiopetaleae, a large radiation of Malvaceae in Australia. The main goal of the project is to use Lasiopetaleae as a model system to understand the biogeographic history of the flora of southwestern Australia. The student will be responsible for sequencing and analyses of chloroplast and low copy number nuclear genes. NSF funding is available for the first 16 months. After that time, additional funds will be sought for research assistantships. The student will also be eligible for departmental and university fellowships and teaching assistantships.

Applicants should send Dr. Whitlock a CV and a short letter that describes research interests and experiences. You will also need to apply to the Department of Biology (<http://www.bio.miami.edu/> for more information and online application forms). The departmental deadline is January 15 however this may be extended until the position is filled.

– Barbara A. Whitlock Assistant Professor Department of Biology University of Miami 29 Cox Science Center Coral Gables, Florida 33124 phone: (305) 284-5412 fax: (305) 284-3039 www.bio.miami.edu/whitlock whitlock@bio.miami.edu

UTasmania Evol of LeafEating

If interested, please reply to Stuart McLean

UNIVERSITY OF TASMANIA SCHOOL OF PHARMACY

PhD Scholarship in Chemical Ecology

The student will join a multi-disciplinary research team working on an ARC-funded project to investigate the effect of plant secondary metabolites on marsupial herbivory. In a unique collaboration, drug scientists at the School of Pharmacy, University of Tasmania, and nutritional ecologists at the School of Botany and Zoology, Australian National University, are investigating the relationship between Eucalyptus leaf terpenes and phenolics and the leaf-eating behaviour of brush-tail possums and koalas. The scholarship is likely to suit graduates in the biological or chemical sciences or

related disciplines. Applicants must be Australian citizens or permanent residents and should hold at least an upper second class honours degree or equivalent. The scholarship offers a non-taxable stipend of \$18,484 per annum for three years, commencing in 2004. One award is available. Closing date: 9 January, 2004. The application form and conditions of award can be downloaded from http://www.research.utas.edu.au/-rhd/schol_forms.htm or contact the Research Higher Degrees Unit on 6226 7495, facsimile 6226 7497 or e-mail scholarships@research.utas.edu.au

For additional information contact: Assoc. Prof. Stuart McLean University of Tasmania Phone: 6226 2199 E-mail: stuart.mclean@utas.edu.au

WestKentuckyU PlantMolSyst

Graduate Assistantship in Plant Molecular Systematics
– Western Kentucky University

A graduate assistantship beginning Fall Semester 2004 is available for M.S. research in the Department of Biology at Western Kentucky University under the direction of Dr. Lawrence Alice. The project will involve a study of phylogenetic relationships and allopolyploidization in the plant genus *Rubus* (Rosaceae) using molecular data. *Rubus* (blackberries, raspberries) is a large, economically and ecologically important genus considered to be one of the most challenging systematics. The successful applicant will enroll in the M.S. in Biology degree program and be affiliated with both the Biotechnology Center and the Center for Biodiversity Studies. The two Centers and the Biology Department may be explored online at <http://bioweb.wku.edu>. This NSF-funded assistantship is for \$14,000 per year (12 month) for two years and includes benefits and tuition waiver. Applicants with experience in PCR-based applications are desired.

For more information or to apply contact Lawrence Alice (lawrence.alice@wku.edu). Include a CV with GPA and GRE scores, and a short statement of research interests and experiences. Applications will be reviewed as received, until the position is filled.

– Lawrence A. Alice, Ph.D. Department of Biology Western Kentucky University Bowling Green, KY 42101 USA Ph: 270-745-7029; Fax: 270-745-6856

Lawrence Alice <lawrence.alice@wku.edu>

Jobs

Beijing PlantEvolBiol	19	RiceU EvolBiol 2	25
BostonU EnvEvolEcol	19	Trondheim PopGenetics	25
CalPolytechnicStateU ConservationBiol	20	UFlorida InsectEvolPhysiol	25
ColoradoStateU EvolTheory	20	ULondon EvolBiol	26
GrinnellCollege EvolBiol	21	ULouvain PopBiol	27
GrinnellCollege EvolBiol 2	22	UNice EvolBiol	27
INRAFrance PopGenetics	22	USydney Bioinformatics	28
IllinoisNHSurvey Mycologist	23	UVictoria DiseaseEvol	28
McMasterU ComputationalBiol	24	UWashington GenomeScience	28
NewMexicoStateU EvoDevo	24		

Beijing PlantEvolBiol

Plant Evolutionary Biologists, CAS

The Institute of Botany of the Chinese Academy of Sciences at Beijing is recruiting three young faculty members in evolutionary biology with open ranks. The candidates are expected to have a Ph.D. and/or a postdoc training in one (or more) field of plant genetics, evolutionary biology, plant development, or genomics, with evidence showing potential in science. We provide competitive packages for the chosen candidates. Interested persons are invited to send your CV and inquiries to Dr. Yingqing Lu, Center for Systematics and Evolution, Institute of Botany, Chinese Academy of Sciences, 20 Nan Xin Chun, Xiangshan, Beijing 100093; fax 86-10-62590843; email yqlu@ns.ibcas.ac.cn. Review of applications will begin immediately and continue until the positions are filled.

Yingqing Lu Center for Systematics and Evolution Institute of Botany Chinese Academy of Sciences 20 Nan Xin Chun, Xiangshan Beijing 100093

Yingqing Lu <yqlu@ns.ibcas.ac.cn>

BostonU EnvEvolEcol

Boston University Environmental Ecologist

The Department of Biology at Boston University invites applications for a tenure-track Assistant Professor to begin in the fall of 2004. The successful candidate will have an ecosystem level focus with an emphasis on global change biology. Relevant areas of research include but are not limited to the processes that control the carbon balance of terrestrial ecosystems, the interaction between the composition/diversity of plant communities and ecosystem function, or the ecosystem consequences of invasive plant species. A strong emphasis on field-based research is required. Applicants should have a Ph.D. with post-doctoral experience, an active research program, evidence of extramural-funding potential and a commitment to excellence in teaching. The successful candidate will also participate in Boston University's Environmental Science Program. Teaching responsibilities will include an undergraduate course in Environmental Ecology and a graduate-level course in an area of expertise. Applicants should send curriculum vitae, statements of teaching and research interests, copies of three publications and three letters of

reference by January 1, 2004 to: Ecology Search Committee, Department of Biology, Boston University, 5 Cummington St, Boston, MA 02215. Boston University is an Equal Opportunity/Affirmative Action Employer.

Note: We encourage applications from scientists who integrate across levels of the biological hierarchy, and are especially interested in someone with a strong appreciation for organismal biology and natural history who brings those interests to studies of global change and ecosystem processes.

The Department of Biology at Boston University includes Cell and Molecular Biology, Physiology, Endocrinology and Reproduction, Neurobiology, and Ecology, Behavior and Evolution. Members of the Ecology, Behavior and Evolution group conduct research in terrestrial and aquatic, temperate and tropical, natural and human-dominated systems and have a strong emphasis on organismal biology. More information on the Department of Biology can be found at <http://www.bu.edu/biology/>. The Environmental Science program is run through the Department of Geography and Environment and includes faculty from the Department of Biology. Research in the Department of Geography and Environment focuses on regional and global scale processes relating to the ecological and economic impacts of human activity on natural and human-altered ecosystems. More information on the Department of Geography and Environment can be found at <http://geography.bu.edu/>.

Karen Warkentin <kwarken@bu.edu>

CalPolytechnicStateU ConservationBiol

Animal Geneticist & Conservation Biologist Tenure Track Positions California Polytechnic State University at San Luis Obispo

Biological Sciences: The Biological Sciences Department within the College of Science and Mathematics at California Polytechnic State University is seeking two full-time, academic year, tenure track positions at the Assistant Professor rank beginning September 2004 as listed below.

Conservation Biologist-Terrestrial Vertebrate (Requisition #100203). Primary teaching responsibilities include courses in Conservation Biology, Wildlife Biology, and/or Terrestrial Vertebrate Biology, and other un-

dergraduate and graduate courses appropriate to background and training. Experience in Wildlife Habitat Modeling, Endangered Species Management, Remote Sensing, GIS, and/or Metapopulation Ecology is desired.

Animal Geneticist (Requisition #100204). Primary teaching responsibilities include human, classical, and molecular genetics in major and non-major courses. Other teaching responsibilities may include bioinformatics, introductory biology, and other undergraduate and graduate courses as appropriate to background and training. Experience with human or other animal model systems (e.g., *C. elegans*, *Drosophila*, Zebrafish) is desired.

The successful candidate must have a strong commitment to undergraduate teaching, curriculum development, and implementation of a productive student-centered research program. Ph.D in related field required at time of hiring. Postdoctoral or equivalent experience desirable. Salary is commensurate with qualifications and experience. Review of applications will begin on December 31, 2003; applications received after this date may still be considered.

To apply, visit WWW.CALPOLYJOBS.ORG, complete an online faculty application, and apply to Requisition #100203 (Conservation Biologist) or Requisition #100204 (Animal Geneticist). Mail curriculum vitae, statement of teaching philosophy, statement of professional goals, and arrange to have official graduate transcripts and three letters of recommendation sent to: Dr. V.L. Holland, Chair, Biological Sciences Department, California Polytechnic State University, San Luis Obispo, CA 93407.

For questions, contact the Biological Sciences Department at (805) 756-5241. Cal Poly is strongly committed to achieving excellence through cultural diversity. The university actively encourages applications and nominations of all qualified individuals. EEO.

Francis Villablanca <fvillabl@calpoly.edu>

ColoradoStateU EvolTheory

ECOLOGICAL THEORETICIAN

TENURE-TRACK, ASSISTANT OR ASSOCIATE PROFESSOR

DEPARTMENT OF BIOLOGY

COLORADO STATE UNIVERSITY

POSITION: The Department of Biology is recruiting an ecological theoretician who is broadly trained and capable in ecology, but with a research emphasis in modeling and developing theory in epidemiology, vector-borne disease, and/or host-parasite interactions. The area of research should relate to the Infectious Disease Initiative at Colorado State University (see below), but should include a focus on creating and testing general models of disease dynamics and ecology that can motivate empirical research. The successful candidate will be expected to collaborate with other faculty recruited under the infectious disease initiative as well with existing faculty. This position will complement existing and growing strengths in the Department of Biology in ecology and evolution, including research on parasites and infectious disease. **Infectious Disease Initiative:** Recruitment of this position coincides with a hiring initiative sponsored by the Vice President for Research and Information Technology, which provides resources to hire at least ten faculty to conduct research in the area of infectious disease. The initiative builds on current strengths of Colorado State University, and federal (CDC, USDA-APHIS, USDA-ARS, USDA-FS, USGS) and state (Colorado Division of Wildlife) research laboratories located in Fort Collins.

RESPONSIBILITIES: The successful candidate is expected to establish an externally funded research program, to teach undergraduate and graduate courses, and to participate in interdisciplinary graduate programs on campus [e.g. Graduate Degree Program in Ecology (www.colostate.edu/Depts/GDPE/-Homepage.html), Program Integrating Ecology, Mathematics, and Statistics (www.primes.colostate.edu/)].

QUALIFICATIONS: Ph.D. in ecology or related field by the time of appointment.

SALARY: Commensurate with education and experience at the rank of Assistant or Associate Professor.

POSITION AVAILABLE: As early as August 15, 2004

To apply, send a letter of application with a curriculum vita, statements of scholarly and teaching interests, three letters of recommendation, and representative publications to:

Search Committee Department of Biology Colorado State University Fort Collins CO 80523 Telephone: (970) 491-7013 FAX (970) 491-0649 e-mail botteron@lamar.colostate.edu URL: www.colostate.edu/Depts/Biology/ Applications received by February 6, 2004 will be given full consideration. The search may be extended if suitable candidates are not found. All application materials of semi-finalists will be made available

to all faculty in the Department of Biology.

*** **

Colorado State University is an equal opportunity/affirmative action employer and complies with all Federal and Colorado State laws, regulations, and executive orders regarding affirmative action requirements. The Office of Equal Opportunity is located in 101 Student Services. In order to assist Colorado State University in meeting its affirmative action responsibilities, ethnic minorities, women, and other protected class members are encouraged to apply and to so identify themselves.

– Michael F. Antolin

Associate Professor of Biology Department of Biology Colorado State University Fort Collins, CO 80523-1878 U.S.A.

e-mail: michael.antolin@colostate.edu Voice: (1)-970-491-1911 FAX: (1)-970-491-0649

GrinnellCollege EvoBiol

Please make the following temporary replacement openings known to any postdocs interested in teaching experience in a liberal arts environment. We welcome applicants with evolutionary expertise for either position.

Jackie Brown Grinnell College Department of Biology Two term positions

Grinnell College invites applications for two one-year faculty positions at the rank of assistant professor in the Biology Department. The positions begin in Fall 2004, with the possibility of a second-year extension. A Ph.D. is required and post-doctoral experience is preferred. Successful candidates will be expected to teach at all levels of an innovative undergraduate biology curriculum based on research-centered learning. For more information about the Biology Department see <http://www.grinnell.edu/academic/biology/>. In their letter of application, candidates should discuss their interests in teaching in an undergraduate, liberal-arts environment that emphasizes close student-faculty interaction and values diversity; they should also describe the upper division courses they would teach in the areas of either molecular/cell biology or ecology, the latter using the college's biological field station. Applications, transcripts, and three letters of reference should

be sent to Prof. Kathy Jacobson, Biology Department, Grinnell College, 1116 8th Avenue, Grinnell, IA 50112-1690 (phone 641-269-3172; fax 641-269-4285; jacobso@grinnell.edu). Electronic applications will not be accepted. To be assured of full consideration, all materials should be received by Feb. 13, 2004. Grinnell College is an equal opportunity/affirmative action employer committed to attracting and retaining highly qualified individuals who collectively reflect the diversity of the nation. No applicant shall be discriminated against on the basis of race, national or ethnic origin, age, gender, sexual orientation, marital status, religion, creed, or disability. –

Jackie (Jonathan) Brown Associate Prof. And Chair of Biology Noyce Science Center Grinnell College Grinnell, IA 50112-1690

Phone: 641-269-3096 FAX: 641-269-4285 Email: brownj@grinnell.edu Web: <http://www.grinnell.edu/individuals/brownj>

GrinnellCollege EvolBiol 2

We would welcome candidates with evolutionary interests for either position.

Two term positions**

**Grinnell College invites applications for two one-year faculty positions at the rank of assistant professor in the Biology Department. The positions begin in Fall 2004, with the possibility of a second-year extension. A Ph.D. is required and post-doctoral experience is preferred. Successful candidates will be expected to teach at all levels of an innovative undergraduate biology curriculum based on research-centered learning. For more information about the Biology Department see <http://www.grinnell.edu/academic/biology>. In their letter of application, candidates should discuss their interests in teaching in an undergraduate, liberal-arts environment that emphasizes close student-faculty interaction and values diversity; they should also describe the upper division courses they would teach in the areas of either molecular/cell biology or ecology, the latter using the colleges biological field station. Applications, transcripts, and three letters of reference should be sent to Prof. Kathy Jacobson, Biology Department, Grinnell College, 1116 8th Avenue, Grinnell, IA 50112-1690 (phone 641-269-3172; fax 641-269-4285; jacobso@grinnell.edu). Electronic applications will not

be accepted. To be assured of full consideration, all materials should be received by Feb. 13, 2004. Grinnell College is an equal opportunity/affirmative action employer committed to attracting and retaining highly qualified individuals who collectively reflect the diversity of the nation. No applicant shall be discriminated against on the basis of race, national or ethnic origin, age, gender, sexual orientation, marital status, religion, creed, or disability.

–
Jackie (Jonathan) Brown Associate Prof. And Chair of Biology Noyce Science Center Grinnell College Grinnell, IA 50112-1690

Phone: 641-269-3096 FAX: 641-269-4285 Email: brownj@grinnell.edu <<mailto:brownj@grinnell.edu>>
Web: <http://www.grinnell.edu/individuals/brownj>

INRAFrance PopGenetics

A permanent position for a senior scientist in population genetics INRA (Institut National de la Recherche Agronomique), Lusignan, France

INRA Plant Genetics Department invites applications for a full-time position for a team leader for an expanding research project in population genetics applied to grasslands. The position will be based at the Forage Crops Genetics Unit, Lusignan (300 km South-West of Paris). The research project of the appointed scientist will be to describe, understand and model demographic and genetic changes in perennial grasslands swards as influenced by competition within and among plant species. Applicants should have an outstanding background in population genetics and biology, theoretical developments and modelling. Full details on the position, the project of this group and on the research Unit are available through contact with Dr C. Huyghe (huyghe@lusignan.inra.fr) or on the INRA web site (www.inra.fr) Qualifications include the completion of a Ph.D. and post-doctoral experience along with demonstrated research potential. Applications including CV, detailed research achievements and a proposal of research project for the offered position must be submitted before end of February 2004. Selected applicants will be interviewed in June 2004. The expected starting date will be September 2004. It is recommended to contact Dr C. Huyghe before application.

Christian Huyghe <huyghe@lusignan.inra.fr>

IllinoisNHsurvey Mycologist

Please direct inquiries to Chris Dietrich, whose email address is listed below.

POSITION ANNOUNCEMENT

Appointment: Mycologist at the Assistant or Associate Professional Scientist level, Illinois Natural History Survey, Center for Biodiversity (State funded, full-time).

The Illinois Natural History Survey (INHS), a division of the Department of Natural Resources, is an Affiliated Agency of the University of Illinois located on the Urbana-Champaign campus. The scientists within the Center for Biodiversity conduct research on a broad range of questions concerning biodiversity and management of biological resources. Scientists at the Illinois Natural History Survey have full access to campus facilities and resources and may hold affiliate appointments in university departments, supervise graduate students, and have opportunities for teaching.

Job description: The mycologist will conduct innovative collection-based research on fungal systematics and/or biodiversity with relevance to the midwestern U.S. and additional emphasis on one or more of the following topics: biotic inventory, biogeography, conservation biology, ecology, genomic analysis, molecular and morphological phylogenetics, symbiosis, and taxonomy. Other duties include: develop and maintain a vigorous extramurally funded research program; curate and build the mycological collection; provide fungal identification services; develop collaborations within INHS, other units of the Illinois Department of Natural Resources, and other public, private or academic research agencies at the local, state, national, or international levels; maintain a record of frequent publication in peer-reviewed scientific journals and present results of research at scientific conferences; participate in education and outreach activities.

Qualifications: A Ph.D. (by starting date) in mycology or a related discipline is required, with a demonstrated organismal focus. Post-doctoral and curatorial experience is preferred. Research experience and interests that complement research programs in the Center for Biodiversity, and that can be applied to conservation and management issues in Illinois and the Midwest, are desirable. The successful applicant must 1) demonstrate abilities to plan, attract funding for, conduct,

supervise, and evaluate research activities; 2) possess and maintain a record of frequent publication in peer-reviewed, nationally recognized scientific journals; and 3) have an affinity for cooperative or interdisciplinary research with scientists at INHS and other units of the Illinois Department of Natural Resources and academic institutions such as the University of Illinois. For appointment at the level of Associate Professional Scientist, the candidate must have received tenure from an academic institution, or passed the equivalent promotion review at a relevant government agency, research institution, or demonstrated equivalent qualifications.

Salary: \$45,000 - \$47,000 (Assistant Professional Scientist); \$53,000 - \$55,000 (Associate Professional Scientist)

Available: Spring, 2004

Benefits: Generous holiday/sick leave/personal/paid holidays. State Universities Retirement System. State sponsored group health, dental, vision, and life insurance.

Application: To ensure full consideration, applications should be received by January 16, 2004. To apply, submit cover letter, CV, a statement of research interests, and three (3) professional letters of reference to Human Resources Office, PRF# 1197, Illinois Natural History Survey, 607 E. Peabody Drive, Champaign, IL 61820 (217) 265-5644, email hroffice@inhs.uiuc.edu, fax# (217) 333-4949.

Technical questions regarding the position should be referred to Dr. Chris Dietrich (217) 244-7408; e-mail: dietrich@inhs.uiuc.edu

Applicants should note that this position is exempt from the State Personnel Code and is under the Board of Natural Resources and Conservation (BNRC) and follows BNRC policies and procedures. This is not a Bargaining Unit position nor a Merit Comp position.

The Illinois Natural History Survey does not discriminate on the basis of race, color, sex, national origin, age, or handicap in admission to or treatment or employment in programs of activities in compliance with the Illinois Human Rights Act, the Illinois Constitution, Title VII of the 1964 Civil Rights Act, Section 504 of the Rehabilitation Act of 1973, as amended, and the U.S. Constitution.

cti3c@unix.mail.virginia.edu

McMasterU ComputationalBiol

ASSISTANT OR ASSOCIATE PROFESSOR COMPUTATIONAL BIOLOGY McMASTER UNIVERSITY DEPARTMENT OF BIOLOGY

McMaster University is a research-intensive institution and leading centre for biological and biomedical research. The Department of Biology is expanding and over the past year has filled six new faculty positions. We invite applications for a tenure-track position in Computational Biology at the Assistant or Associate Professor level, effective July 1, 2004 or January 1, 2005.

Candidates must hold a Ph.D. in Biology or a related field, possess at least one year of postdoctoral experience, and have a productive research record in an area of Computational Biology. We encourage applications from a broad range of individuals applying mathematics, statistics, and/or computer science to the study of biological questions. Research areas include but are not limited to bioinformatics, developmental biology, genomics, molecular biology, molecular evolution, neurobiology, ecology, population biology and population genetics. We encourage candidates with strong genomics and bioinformatics/genetics background to apply and we encourage individuals who can interact with other members of the newly established Centre for Environmental Genomics and Biotechnology, who run a laboratory component and/or could significantly interact with other laboratory scientists in the Department to apply.

The successful applicant will be expected to establish and maintain an independent and externally funded research program and contribute to the education of undergraduate and graduate students.

Applicants should submit a curriculum vitae, a statement of their research interests, a statement of their teaching interests and experience, and three of their most important publications. Applicants should arrange for three letters of recommendation to be sent to - Dr. G.B. Golding Search Committee Chair, Department of Biology, McMaster University, 1280 Main Street West, Hamilton, Ontario L8S 4K1, Canada. Evaluation of applicants will begin February 2004 but the position will remain open until filled. Please refer to the position to which you are applying in your covering letter. applying in your covering letter.

NewMexicoStateU EvoDevo

Dear Colleagues,

I call your attention to the advertisement below, a copy of which appeared in SCIENCE last month. In case it is not obvious from the ad, the search committee (of which I am not a member, so don't send applications to me) welcomes applications from individuals working in the area of evo-devo.

Best,

Dan Howard

The Department of Biology at New Mexico State University (<http://biology-web.nmsu.edu>) invites applications for a tenure-track assistant professor to develop a research program in animal developmental biology using innovative approaches and model systems to understand fundamental mechanisms at the molecular, cellular, and/or integrative/physiological levels. The ideal applicant will have a Ph.D. or equivalent degree, at least two years of postdoctoral training, research productivity commensurate with experience, and a commitment to mentoring undergraduate and graduate students at a minority-serving institution. The successful candidate will be expected to develop an independent, externally funded research program, to direct M.S. and Ph.D. students, to advise undergraduate and preprofessional students, to contribute to departmental teaching needs, to develop new courses in his/her area of expertise, to participate in the department's public service missions, and to interact with colleagues who work in a variety of sub-disciplines from microbiology to evolution. Opportunities are available to participate in NIH-sponsored biomedical research programs (MARC, RISE, SCORE, MICCPP, BRIN, and Bridges). University resources include extensive modern electron microscopy, fluorescence imaging, cell culture, and sequencing facilities. The Department provides competitive start-up packages. Applicants should submit by post or FAX (no e-mail attachments): curriculum vitae, statements of research goals and teaching interests, and three letters of reference to Developmental Biology Search Committee Chair, Biology Department MSC 3AF, Box 30001, NMSU, Las Cruces, NM 88003. Tel: (505) 646-3611; FAX (505) 646-5665. Review of applications begins December 22, 2003 and continues until the position is filled. NMSU is a Carnegie Doctoral/Research extensive institution, and an EEO/AA

employer.

RiceU EvolBiol 2

EVOLUTIONARY BIOLOGIST. The Ecology and Evolutionary Biology Department at Rice University (<http://www.ruf.rice.edu/~eeb/> <<http://www.ruf.rice.edu/%7Eeeb/>>) seeks to fill a HUXLEY RESEARCH INSTRUCTORSHIP. This is a 2-year appointment for a recent Ph.D. for research and teaching. The teaching component is expected to be one upper-level undergraduate course per year. Preference will be given to candidates who will work collaboratively with the other faculty in the department. Applications, including curriculum vitae, a summary of research interests, and three letters of reference, should be sent to: Huxley Instructor Search Committee, Department of Ecology and Evolutionary Biology MS-170, Rice University, P.O. Box 1892, Houston TX 77251 - 1892, by January 30, 2004. Rice University is an Equal Opportunity/Affirmative Action Employer.

– Lisa Marie Meffert Department of Ecology and Evolutionary Biology Rice University - MS 170 P.O. Box 1892 Houston, TX 77251-1892

Phone: 713-348-2564 (office) 713-348-2569 (lab) Fax: 713-348-5232 E-mail: lmeffert@rice.edu

Lisa Meffert <lmeffert@rice.edu>

Trondheim PopGenetics

The Department of Biology, (NTNU), Trondheim, Norway, is seeking two highly qualified individuals to fill two vacant positions as associate/full Professor in molecular biology. One position with special qualifications in population genetics, and one position in molecular biology/cell biology.

Enquiries about the position may be made to head of the department, professor Gunilla Rosenqvist, tlf. 73 59 62 96, e-post: gunilla.rosenqvist@bio.nt.ntnu.no

Applications should be sent to the Norwegian University of Science and Technology, Faculty of Natural Sciences and Technology, N-7491 Trondheim, Please quote

NT-38/03 (cell biology) or NT-39/03 (population genetics) in all correspondence. Closing date for both positions is 15/01-04.

Further information on the positions is available on the web at: <http://www.bio.ntnu.no>

Gunilla Rosenqvist <gunilla.rosenqvist@nt.ntnu.no>

UFlorida InsectEvolPhysiol

POSITION ANNOUNCEMENT # 912580

Title: ASSISTANT PROFESSOR OF ENTOMOLOGY AND NEMATOLOGY (INSECT PHYSIOLOGY)

Location: DEPARTMENT OF ENTOMOLOGY AND NEMATOLOGY UNIVERSITY OF FLORIDA INSTITUTE OF FOOD AND AGRICULTURAL SCIENCES (IFAS) NATURAL AREA DRIVE, PO BOX 110620 GAINESVILLE, FL 32611-0620

Salary: COMMENSURATE WITH QUALIFICATIONS AND EXPERIENCE

Position Open To: MARCH 1, 2004 Anticipated Start Date: JULY 1, 2004

DUTIES AND RESPONSIBILITIES: This is a 12-month tenure-accruing faculty position that will be 50% research (Florida Agricultural Experiment Station) and 50% teaching (College of Agricultural and Life Sciences), available in the Department of Entomology and Nematology, Institute of Food and Agricultural Sciences, University of Florida, Gainesville. This assignment may change in accordance with the needs of the unit. Duties will include:

Teaching - The incumbent in this position will actively participate in graduate education by chairing graduate committees, serving on graduate committees, supervising thesis and dissertation research, and publishing the results with their graduate students. Teaching responsibilities will include a graduate course in insect physiology and other graduate or undergraduate courses or seminars in his/her area of expertise. There are over 90 graduate students presently enrolled in the program.

Research - The incumbent in this position will be expected to conduct and publish organized research on issues related to insect physiology, biochemistry and related areas. The incumbent is expected to solicit extramural funds to support his/her research programs.

BASIC QUALIFICATIONS: A Ph.D., with training and experience in insect physiology or a closely related field and a strong background in insect biochemistry is required. Teaching experience is highly desirable. It is expected that the incumbent will be versed in current and appropriate skills relevant to his/her research. Candidates should have demonstrated skills in verbal and written communication and interpersonal relationships, and be highly motivated to procure extramural funding. Candidates must be supportive of the mission of the Land-Grant system. Candidates must also have a commitment to IFAS' core values of excellence, diversity, global involvement, and accountability. Implementation of the Affirmative Action program of the University of Florida is required.

BACKGROUND INFORMATION: The Department of Entomology and Nematology is a unit in the Institute of Food and Agricultural Sciences (IFAS) at the University of Florida and has diverse teaching, research and extension education programs with 28 faculty members located on the Gainesville campus, 35 faculty located across the state at research and education centers, about 100 courtesy faculty and 40 support personnel. The University of Florida is a Land-Grant institution with an enrollment in excess of 48,000 students on the Gainesville campus and a member of the Association of American Universities. IFAS includes 20 academic units, 5 interdisciplinary centers, 14 research and educational centers throughout the state, and Cooperative Extension units in each of Florida's 67 counties and the Seminole Tribe. IFAS, one of the nation's largest agricultural and natural resources research and education organizations, is administered by a Vice President and five deans: the Dean of the College of Agricultural and Life Sciences, the Dean for Extension, the Dean for Research, the Dean for the College of Veterinary Medicine and the Dean for the College of Natural Resources and Environment. Facilities available to support the candidate's research include the Analytical Toxicology Core Laboratory, the Interdisciplinary Center for Biotechnological Research (ICBR), the neurophysiology core at the School of Pharmacy, Brain Core and Whitney Lab, and the USDA laboratories.

HOW TO APPLY: Interested persons are requested to submit the following items: (1) letter of application, including a statement of teaching philosophy and research interests; (2) curriculum vitae; (3) official copies of university transcripts; and (4) names, addresses, phone numbers and email addresses of four individuals familiar with the candidate's research ability, and 5) copies of one to three of the candidate's most significant publications. All of the above items must be postmarked by the closing date of March 1, 2004. Nomination of

candidates is encouraged. Women and minorities are encouraged to apply.

POSITION #912580 RETURN INQUIRIES TO:

Dr. Marjorie A. Hoy Chair, Insect Physiology Position Search and Screen Committee Department of Entomology and Nematology PO Box 110620, Building 970, Natural Resources Drive University of Florida Gainesville, FL 32611-0620

TEL: 352-392-1901, Ext 153 FAX: 352-392-0190 email: mahoy@ifas.ufl.edu

— / —

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>

ULondon EvolBiol

Up to 5 chairs are offered within the School of Biological Sciences, Queen Mary, University of London.

The School is a friendly and youthful department that encourages interdisciplinary research both within the School and with the School of Medicine and Dentistry. The School, which has a number of the country's leading researchers in areas such as Biochemistry, Evolutionary Genetics and Freshwater Biology, has recently invested £3million in state-of-the-art equipment for research, making it one of the best equipped Biological Sciences departments in London.

Applications across the disciplinary spectrum will be considered, but areas of particular interest are:

Biochemistry (enzymology) Neurobiology or Developmental Biology. Microbiology (metabolism, physiology, and/or virology) Proteomic or metabolomics (protein separation and characterisation) Biological Chemistry (a bioorganic chemist, with research interests in synthesis/metabolism/drug design)

Enquiries should be directed to the Head of School, Professor Peter Heathcote (p.heathcote@qmul.ac.uk)

ULouvain PopBiol

This is the second announcement of a job ad that appeared in EvoDir in September. We would like to bring it to your attention again, mainly because the closing date for application is not 15 December 2003 (as stated in that first announcement) but a month later, 15 January 2004.

Renate Wesselingh —

Full-time tenure-track faculty position in population biology, Université catholique de Louvain, Belgium

The Unit of Ecology and Biogeography (Biodiversity Research Center & Faculty of Sciences) has a strong and diverse research program in terrestrial population biology. A full-time tenure-track faculty position is available in our unit, beginning in September 2004. The successful candidate will be responsible for teaching at one or more of the three levels of education (BSc, MSc, and PhD), as well as in the program for continuing education. She/He will develop a research program and supervise the work of MSc and PhD students. Applicants should have a PhD or equivalent, post-doctoral experience, and a strong publication record. Moreover, experience in and commitment to teaching at the university level, and the capability to undertake scientific research at a high level and to lead a research team are required. A command of both spoken and written French, or the willingness to acquire this within one year of taking up the post is required for teaching. To be considered, an application should comprise: 1) a completed application form (downloadable from the address below), 2) a full curriculum vitae, 3) a bibliography, 4) abstracts of the most important publications, 5) a copy of the final degree, 6) a text of about 3500 characters describing the research the applicant wishes to carry out, and 7) a text of about 3500 characters explaining the applicant's views on teaching and education. In addition, three letters of recommendation from internationally renowned scientists should be sent to the Rector of the UCL. Applications should be sent to Prof. M. CROCHET, Rector of the UCL, Place de l'Université 1, B-1348 Louvain-la-Neuve, Belgium, with reference number SC / BIOL7 / 2004 / 841. Closing date: 15 January, 2003. For more information, visit the unit's website (<http://www.ecol.ucl.ac.be>) or contact Prof. T. Hance (Hance@ecol.ucl.ac.be, +32 10 47 34 93). The application form can be downloaded from the following webpage http://www.ecol.ucl.ac.be/postes_vacants/index_en.html Renate Wesselingh <wesselingh@ecol.ucl.ac.be>

UNice EvoBiol

FULL PROFESSOR IN EVOLUTIONARY BIOLOGY

A professor position in Evolutionary Biology is open in the University of Nice - Sophia Antipolis (France)

The Professor will join the research unit "Reponses des Organismes aux stress Environnementaux" led by Rene Feyereisen and located in the university campus in Nice and in Sophia-Antipolis We are seeking a highly motivated scientist with practical experience in some of the following fields: Biology of marine invertebrates Entomology Biology of symbiosis Population biology and population genetics

The teaching activities (in French) concern general biology, animal biology and evolutionary biology. The professor will manage the Population Biology field of the university and particularly the new master of population biology and evolutionary biology. A specialist in population genetics would be preferred

Scientific environment: -The team "Biologie des populations en interaction" includes 7 researchers and one assistant professor. This team works on the evolution of natural populations affected by multiple selections. Tritrophic systems like plant-phytophagous insects-entomophagous insects are the key model of the team. -The team "Reponse des organismes aux stress abiotiques" studies the effects of environmental stress on symbiotic Cnidarians. -The scientific activities of the other teams of the unit deal with plant/insect interactions, ecotoxicology, and resistance to xenobiotics. The unit is equipped for genomic research

The successful candidate will choose the research team.

For additional informations, please contact: -Didier Forcioli (forcioli@unice.fr, 33 (0)4 92 07 68 67) and/or -Flavie Vanlerberghe-Masutti (fvl@antibes.inra.fr, 33 (0)4 93 67 89 64)

Candidates are encouraged to send their curriculum vitae, list of publications and 1 or 2 reference letters to Didier Forcioli by e-mail to the following address: forcioli@unice.fr

Note that only scientists that are registered in the French "Qualification lists" can apply.

Thomas Guillemaud

- Thomas Guillemaud Equipe "Biologie des Popula-

tions en Interaction" UMR ROSE INRA-Université de Nice-Sophia Antipolis 123 Bd Francis Meilland BP 2075 06606 Antibes Cedex FRANCE

tel 33 (0)4 93 67 89 44 fax 33 (0)4 93 67 89 55 e-mail : guillem@antibes.inra.fr

USydney Bioinformatics

LECTURER or SENIOR LECTURER in BIOINFORMATICS at the UNIVERSITY OF SYDNEY

The School of Information Technologies and the Sydney University Biological Informatics and Technology Centre (SUBIT) are pleased to announce a vacancy for a Lecturer or Senior Lecturer in Bioinformatics.

Deadline for submission of applications is 8 January, 2004.

For more information, please go to:

<http://bull.ucc.usyd.edu.au/personnel/FMPro> Yours sincerely,

Lars

– Dr Lars S Jermiin, Lecturer Acting Director, SUBIT Chair, Bioinformatics Degree Program Committee School of Biological Sciences Heydon-Laurence Building A08 University of Sydney New South Wales 2006, Australia

Phone +61 (02) 9351 3717 Fax +61 (02) 9351 4119 E-mail lsj@bio.usyd.edu.au WWW page <http://www.bio.usyd.edu.au/~jermiin>

UVictoria DiseaseEvol

Assistant Professor Ecology and Evolution of Disease University of Victoria, Victoria, British Columbia, Canada

The Department of Biology invites applications for a full-time tenure-track position in the Ecology and Evolution of Pathogenic Organisms

Applicants should have an outstanding background using a theoretical or experimental approach to the dynamics of pathogenic systems. Areas of interest may

include (but are not limited to): the temporal and spatial dynamics of disease, the evolutionary dynamics of infection and resistance. The Department is open to research programs on any study organism. The University has growing strengths in Marine Biology, The Center for Forest Biology, The Center for Biomedical Research, and Environmental Management of Drinking Water. Additional research interests can be found at web.uvic.ca/Biology. The successful applicant will be expected to participate in undergraduate teaching, graduate training, and develop a rigorous, independent research program, funded by external support. The expected starting date will be July 2004 or as negotiated.

Qualifications include the completion of a Ph.D. and postdoctoral experience along with demonstrated exceptional research and teaching potential. Letters of application, clearly outlining the candidates expertise, teaching experience and research interests, along with a curriculum vitae and names and contact information of at least three referees should be sent by February 1, 2004 to:

Chair Department of Biology University of Victoria P.O. Box 3020 STN CSC Victoria BC V8W 3N5 Canada

The University of Victoria is an equity employer and encourages applications from women, persons with disabilities, visible minorities, aboriginal peoples, people of all sexual orientations and genders, and others who may contribute to the further diversification of the University.

All qualified candidates are encouraged to apply; however, in accordance with Canadian Immigration requirements, Canadians and permanent residents will be given priority.

"Bradley R. Anholt" <banholt@uvic.ca>

UWashington GenomeScience

FACULTY POSITIONS DEPARTMENT OF GENOME SCIENCES UNIVERSITY OF WASHINGTON

The Department of Genome Sciences at the University of Washington is continuing a major expansion under its new chair, Dr. Robert Waterston, and will move into a new building in Spring, 2006. Research in the Department encompasses both model organism and human genetics and genomics, and includes a strong fo-

cus in computational biology and in technology development. The Department invites applications for two faculty positions at the rank of ASSISTANT PROFESSOR, although exceptional candidates may be considered at the rank of ASSOCIATE or FULL PROFESSOR. Applicants should hold a Ph.D. or M.D. degree. One position is for an individual whose primary focus is computational biology. Contact: James Thomas, Computational Biology Search Committee Chair bioinformatics@gs.washington.edu Department of Genome Sciences University of Washington Box 357730, HSB - K353A Seattle, WA 98195

The other position is for an experimental biologist who is addressing biological questions at the genome-wide level and/or who is exploiting and developing new technologies.

Contact: Stanley Fields, Experimental Biology Search

Committee Chair experimental@gs.washington.edu Department of Genome Sciences University of Washington Box 357730, HSB - K353A Seattle, WA 98195 Both positions involve teaching duties as well as an active research effort. Candidates should email or mail their curriculum vitae and statement of research and teaching interests, and arrange to have three letters of reference sent by mail. Applications will be reviewed beginning December 15, 2003. For additional information that may be helpful in preparing an application, see the Department's web site at <http://www.gs.washington.edu>. The University of Washington is building a culturally diverse faculty and strongly encourages applications from women and minority candidates. The University of Washington is an Affirmative Action/Equal Opportunity Employer.

joe@gs.washington.edu

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Dear all,

I am wondering if somebody can kindly tell me how to operate the searching page of the Bayreuth tRNA database maintained by Mathias Sprinzl and Konstantin S. Vassilenko (<http://www.uni-bayreuth.de/departments/biochemie/trna/>).

The problem is that when I open the MS Excel file, the first searching page is not active; in other word, the areas that I need to type in keywords (e.g., amino acid, anticodon, etc.) are not active. I am not sure if I have done anything wrong or missed some kind of tricks for using this page. Thanks for your help!

Fengjie

Feng-Jie Sun 359 National Soybean Research Center (NSRC) Department of Crop Sciences University of Illinois at Urbana-Champaign 1101 West Peabody Drive Urbana, IL 61801-4723 Office phone: 217-333-9877 Home phone: 217-328-0682 Fax: 217-??? E-mail: f-sun@life.uiuc.edu

Canarina samples

Hello all- we are trying to work out the relationship of the plant genus *Canarina* in the family Campanulaceae. We have DNA sequence, but want to compare the morphology of the odd fruit, which we have not seen. If you are in the Canary Islands or tropical East Africa and could collect a few fruit in alcohol and an herbarium voucher, we would truly appreciate the help and reimburse for shipping. The plants are fairly abundant and should be in bloom or fruit about now. Please email if you can help us. Many thanks

John Gaskin USDA ARS NPARK and Tatyana Shulkina Missouri Botanical Garden

email reply to: jgaskin@sidney.ars.usda.gov

Capture recapture data answers

I recently posted an inquiry re fish tagging and movement on evol dir. Sincere thanks to all respondents. Several people have also asked for the responses to be posted back on evol dir. They follow my initial posting.

Kind Regards, Leon Meggs

I am working on population genetics of *Pagrus auratus* (Sparidae) in southeastern Australia. Current stock recognition is mainly based on capture/recapture data but I question whether the tagging of fish has a direct influence upon spatial movement. There seems to be very little literature available that critically addresses this issue. If anybody knows of any such papers I would be most grateful to be informed of such.

I do not know. I can only tell that it is very rarely documented in birds also. Capture influences movements of geese (Pradel et al. 1995 Journal of Applied Statistics), but not of Little Egrets *Egretta garzetta* (Henry et al. submitted). I am sure you thought about it, but in case you did not, my suggestions to look for information are: - literature about salmon, an organism on which several marking technics have been used for decades (and comparison of genetic and CMR data may be available or published, i.e. maybe the best way to detect the influence of tagging) - I have a colleague who did his PhD on CMR and genetics of a river fish. You may locate his current address via google: Laurent Crespin (he is currently in Chile) - I also have a friend who worked during his post-doc on CMR of Bogus (?), I have forgotten the name of this very common northern Atlantic fish... Romain Julliard julliard@mnhn.fr I hope this is of some help for you. Pierre-Yves I do not remind exactly who were the persons I referred to, but yes you can forward my reply. Please, add to the e-mail address of Laurent Crespin (lcre@ceh.ac.uk, laurent.crespin@uio.bio.no; I do not known what is his current address) the one of Patrick Berrebi (berrebi@hyd.univ-montp2.fr; he was his PhD supervisor, and I bet that he would appreciate to be associated in the discussion). Kind regards, Pierre-Yves

I enclose reference to a review we wrote some time ago that critically assesses issues on biological conservation and stress and involves sections on the effects of handling. There may be some references in there that may be useful to you. Hofer H, East ML 1998 Biological conservation and stress. *Advances in the Study of Behavior* 27: 405-525. Let me know if you find anything else. Best wishes Heribert

Margaret Patcek asked me to reply to you re: your tagging question. Most population estimates are based on the assumption that marking does not effect behavior. This is marginally true, but depends on the mark. With anadrimous fish, tagging may result in "fall back" , or the temporary abandonment of migration. This generally lasts about two weeks, but may result in the total abandonment of a run by up to 40% of individuals. With other species, even with invasive tagging

procedures like surgical implantation of transmitters, the rule of thumb is behavior is normal after about two weeks. We have conducted extensive studies on striped bass and other land-locked species and find this to be true. Transmittered fish are found in schools with non-transmittered fish and are caught on hook and line very soon after implantation. With less invasive techniques, like Floy or Hallprint T-bar tags, recovery is almost immediate. We have tagged over 25,000 fish with Floy t-bars, 25,000 with NMT VIalpha, 10,000 with NMT VI elastomer, and 300,000 with NMT coded wire and have found no difference in mortality, feeding, habitat selection, or movement when compared to controls in the lab or anecdotally in the field. Bottom line: tagging should have little effect on movement related to stock delineation. If anything, tagged fish may move more than untagged fish, resulting in conservative estimates of stock boundaries. However, assumptions are based on either random marks, or random recaptures. If you are using fishery-dependant data, recaptures are probably not random, because effort is density dependent. Fisherman fish where they know they will catch fish at a high rate. Areas between stocks, or in marginal habitat may not be fished at all, resulting in a lower (biased) probability of recapture. This could bias stock boundaries, but should have little effect on stock definition. Hope that helps. My contact information is below. I'd be happy to discuss this further with you if you like. Regards, Jeff Isely

 J. Jeffery Isely South Carolina Cooperative Fish and Wildlife Research Unit G-27 Lehotsky Hall - AFW Clemson University Clemson, SC 29634-0372 <http://virtual.clemson.edu/groups/AFW/coop/-index.htm> 864.656.1265 864.656.1034 (fax)

I suspect it is virtually impossible to answer this question as you would

— / —

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>

Coevolution rate

Dear Colleagues,

Is there any tools to study the co-evolution, i.e. the history of evolution among same taxa, of different genes

and proteins? And how to compare the mutation rate of these genes? I have up to one hundred of genes from 10 species, basically I am wondering which groups evolve together, and which groups evolve faster.

Any information is highly appreciated!

Tuo Shi Environmental Biophysics and Molecular Ecology Institute of Marine and Coastal Sciences Rutgers University 71 Dudley Road, New Brunswick, NJ 08901 Phone: (732)-932-6555 x332 Fax: (732)-932-4083 http://marine.rutgers.edu/ebme/html_docs/staff.html

Tuo Shi <tuoshi@imcs.marine.rutgers.edu>

Coryphoblennius samples

I am looking for people willing to send me samples preserved in ethanol (70-90%) of the montagu's blenny, *Coryphoblennius galerita*, from western Mediterranean (south of Spain, south of France and/or western Italy) to add to our collection. In exchange for the material we offer co-authorship in the paper. What we are doing is a comparison of D-loop, 12S and 16S sequences from samples collected here in the Azores, Madeira, Canaries, mainland Portugal, and eastern Mediterranean.

Thanks, Sergio

Sergio Stefanni, PhD Molecular Systematics DOP (Dept of Oceanography and Fisheries) IMAR - University of the Azores Cais Sta Cruz PT- 9901-862 Horta - Azores - Portugal

voice: +351.292 200 439 mobile: +351.964538185 Fax: +351.292 200 411 e-mail: sstefanni@notes.horta.uac.pt / sstefanni@yahoo.co.uk

Dyakuba cell line

Dear Colleagues:

I have been study the evolution of the telomeric retrotransposons HeT-A and TART in different *Drosophila* species. Now, I would like to verify if the conclusions I have taken from my evolutionary approach make any sense in a cell biology system. So, I am looking for a *Drosophila yakuba* cell line. Please, if you have it or

you have any information that could help me, I would really appreciate it.

Thanks very much

ELENA

Elena Casacuberta, PhD Biology Dept. 68-664 Massachusetts Institute of Technology Cambridge, MA 02139

Elena Casacuberta <casacube@MIT.EDU>

- Cobitidae *Misgurnus fossilis* (weather fish) - Cobitidae *Lampetra planeri* (brook lamprey) - Petromyzonidae *Lampetra fluviatilis* (river lamprey, lampern) - Petromyzonidae

Thank you very much! Yours sincerely,

Guy Knaepkens

Guy Knaepkens University of Antwerp (U.I.A.) Department of Biology Universiteitsplein 1 B-2610 Wilrijk Belgium email: guy.knaepkens@ua.ac.be

Evol protein binding

Dear colleagues

I would greatly appreciate any information you may have on cases in which a ligand binding site (such as for ATP or ADP or any other small molecule) evolved into a protein-protein binding site.

I have searched to the best of my ability the literature, and came back empty-handed, so I would also like to pick your brains.

Thank you

Dan Graur

–

Dan Graur Norman and Rose Lederer Professor of Biology

Laboratory of Information Biology & Molecular Evolution Department of Zoology George S. Wise Faculty of Life Sciences Tel Aviv University Ramat Aviv 69978 Israel

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eFax 1-253-3908378 eMail graur@post.tau.ac.il [www.http://kimura.tau.ac.il](http://kimura.tau.ac.il)

graur <graur@post.tau.ac.il>

Fish micros

Dear all,

Does anyone know if microsatellite primers exist for the following fish species: *Cobitis taenia* (spined loach)

Dear Evoldir members,

Earlier I sent out a request for help with gel documentation systems. Here is my original message followed by the responses. Thanks to all for their help.

Evan

We are searching for a cheap agarose gel documentation system using just a digital camera. Has anyone ever tried this? Is there some simple way to do this without buying one of the expensive systems?

Thanks in advance, Evan

W. Evan Braswell Laboratory of Ecological and Evolutionary Genetics New Mexico State University Las Cruces, NM 88003

Be very carefull especially about the camera. I've just bought a system from Biorad. It has rather expensive digital camera - Panasonic Lumix DMC-LC40 - that is totally inappropriate for that kind of photography. You need to try if the autofocus works in this special conditions. In Lumix it doesn't. I have also tried Casio QV-R40 (twice cheaper) with the hood supplied by Biorad. Autofocus works much better, besides it has manual focus (very useful in case of weak banding). However the quality of pictures is quite weak. My advice is: 1. Check autofocus on dark surfaces with weak pattern (e.g. grey paper with only a few thin lines drawn on it). 2. Check the picture quality. 3. Buy camera with manual focus - just in case. 4. Maximum sensitivity should be about 300-400 ISO. 5. Minimal optical parameters are: aperture - 2,8; shutter - 1/4 s. The longer the time can be the better. Usual conditions for EtBr stained gel are 400ISO, shutter=4 sec, aperture=5,6. It is better because of bigger focal depth than with shorter times. 6. The optical resolution should be at least 4

Mln px. 7. You should have choice of level of compression - cameras with TIFF format are best however good quality JPEG are also sufficient. Look carefully at the pictures before you buy any camera :)

When I was in lab tech school, we used a UV transilluminator deck with a black cone-type thing with a hole in the top that you would set over the gel and put the digital camera up to. It seems that's about the cheapest one could set it up.

we are using a system you may be interested in. It consists of Canon PowerShotG1 digital camera, hood and two Kodak filters (as we're using EtBr and SYBR Green staining). In fact we purchased this system from Elchrom Scientific (www.elchrom.com) and it was about 5,000-5,500 EURO. However, I think that it was due to a gel analysis software included (TotalLab). We're using this system over 2 years and haven't had any problems with it yet, quality of pictures is very high. I think that you may assemble a system consisting of some good digital Camera (eg Canon PowerShotG5), any hood and the appropriate commercially available filters for about 1000 EURO. Hope this helps.

At Victoria University of Wellington a MSc and a Postdoc documented their gels in this way. We simply mounted a digital KODAK camera (~US\$ 1000) on a tripod and placed it over a transilluminator box. To avoid diffuse UV radiation a plastic shade was cut out of an old conference satchel, placed on top of the transilluminator, leaving a rectangular window to place the gels in. To visualise ethidium bromide stained gels we bought a plastic orange filter at a photo shop in town. We put a steel clamp next to the camera, clamped the orange filter carefully with a bit of tissue and moved it underneath the camera lens. Once the settings were satisfactory, we left the whole set-up like this in our dark room. The MSc student liked to score his gels in negative, another useful option when using a digital camera.

Yes there is such a system: put a cardboard box upside down over a transluminator (UV), make a hole on what is meant to be the bottom of the box, use a simple red filter as those traditinnaly used with polaroid camera to take EtBr stained DNA, put your cheap digital camera over it, ideally on a stand. And Click! I don't know if this will work with EtBr but it does with Vista Green (Amersham rpn5786, 10 ul per 1ml of loading blue; it ties to the DNA and does not need to be added to the gel itself).

A few years ago I was looking for the same thing you are, a good and inexpensive gel documentation system (price range \$1000 - 2000). The cheapest that I know about is a system from Kodak. One of the good things

about it is that the photos can be printed easily on a laser printer. My understanding is that the paper is more archival in quality than that found in fancier systems.

I have used the Dark Reader system with a digital camera. The box emits blue light and it has an orange cover that goes over it. Cybr gold(Molecular Probes) stains the DNA and shines through. It is as sensitive as ethidium and less toxic. The box costs around \$800(still a little pricey, but maybe less than what you've been looking at) and if you want to know where to get one,

— / —

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>

GeneticDataAnalysis III

I am in the process of revising my book, Genetic Data Analysis II. I would appreciate any comments on which new topics should be added, and which of the present topics should be dropped or expanded.

With thanks,

Bruce Weir Phone: (919) 515-3574

Bioinformatics Research Center Fax: (919) 515-7315
NC State University email: weir@stat.ncsu.edu Raleigh
NC 27695-7566 URL: <http://statgen.ncsu.edu>

Isoglossa Clonality Testing

Dear Evoldir members:

I am looking for an appropriate molecular technique to use to assess the degree of clonality in one of my study species, *Isoglossa woodii* (Acanthaceae). As an ecologist by training, it is difficult to know where to start. Literature searches have revealed that the only published study on clonality in Acanthaceae used RAPDs (Bush and Mulcahy. 1999. *Molecular Ecology* 8:865-870.)

I would appreciate advise on what molecular technique would be most appropriate for determining how exten-

sive clonal growth is in an understory plant species. I've had allozymes/isozymes and microsatellites recommended to me and been dissuaded from using RAPDs and ISSRs. I would like to find something that is reliable but I also don't necessarily have the funds, time, laboratory facilities, or skills necessary to develop a really involved technique.

I'd also appreciate having some advise on how you would recommend sampling the plants. Number of plants is not a limiting issue; this species forms a dense understory layer with about 20 stems per 1 m-squared. I am working in one specific 5 km-square area but the distribution of the species is more-or-less continuous along Indian Ocean from Durban northward to the Mozambique border (about 800 km). Should I try to have a target number of samples in all areas along that distribution? How does one define a population?

Also what storage techniques work best for that analysis (both for the short and long term). I will be collecting samples from the field site. There are no immediate storage facilities for freezing and it will take 4 hours to travel between the field site and the University where I work.

Thank you in advance for your time and assistance with this.

Cheers,

Megan

Megan Elizabeth Griffiths, Postdoctoral Researcher Forest Biodiversity Programme School of Botany and Zoology University of Natal Private Bag X01 Scottsville 3209 Pietermaritzburg, SOUTH AFRICA

Phone: +27-(0)33-260-5110 Fax: +27-(0)33-260-5105
Email: Griffithsme@nu.ac.za

...the smells of life and richness, of death and digestion, of decay and birth, burden the air. And salt spray blows in from the barrier where the ocean waits for its rising-tide strength... -John Steinbeck, Cannery Row

Tiawanna Taylor <201512493@nu.ac.za>

Lecythidaceae samples

Hello everybody,

I am currently doing my PhD on molecular evolution in the Brazil nut tree family (Lecythidaceae). I am seeking leaf tissue samples of members of the same family,

but from Africa or Asia (Old World species).

I would really appreciate if anyone could send me some leaf tissue samples from any of the following subfamilies: Planchonioideae, Napoleonaeoideae, Scytopetaloidae and Foetidoidae. I recognize that there are different ways to classify the Lecythidaceae. My goal is to obtain samples for species closely related to Amazonian Lecythidaceae genera such as Corythophora, Lecythis, Couratari and Eschweilera.

Please contact me directly if you might be able to help. I might be able to trade North American samples in exchange. I will pay for the shipping. I would acknowledge your assistance in any publications.

Thank you very much

Sincerely, David

David Soria Hernanz Georgetown University Department of Biology Reiss Sciences Bldg.406 Washington, DC 20057-1229 email soriad@georgetown.edu

soriad@georgetown.edu

Lice Taxonomy

Hi, Are there any people out there who who might want to get involved in an interesting project involving molecular systematics of lice? See below. If so, contact Jack Mortensen. Mike

Michael Blouin Dept. Zoology, 3029 Cordley Hall Oregon State University Corvallis, OR 97331-2914 Tel. 541-737-2362 Fax. M. Blouin: 503-714-9907 Fax. Dept. Zoology: 541-737-0501 blouinm@science.oregonstate.edu <http://-oregonstate.edu/~blouinm/index.htm> > — Original Message —

From: <Jack.A.Mortenson@aphis.usda.gov> To: <blouinm@science.oregonstate.edu> Sent: Wednesday, December 17, 2003 10:40 AM Subject: lice taxonomy question

Mike, I haven't run into you in a few years. Hope you are still going strong n Zoology. I have a genetics question for you.

I am investigating a lice problem in Oregon deer. It appears that the deer in western Oregon have an exotic lice on them and most likely the reason for the hair-loss syndrome seen over the last few years. I am working with a morphological taxonomist for biting lice and he

can identify the enus, subgenus, but is relatively certain this is an undescribed species. I would like to follow up on the identification of this lice with a enetic comparison to confirm genus and species.

Would you be able to do this type of work, or would you be able to point me in the right direction. I realize it would take some samples of knowns and unknowns to do this work. These are available.

Best Regards,

Jack Mortenson, DVM, MS Epidemiologist USDA, Veterinary Services 530 Center St NE, Suite 335 Salem, OR 97301 503-399-5703

M13 primer use

Markus Schuelke published in Nature a method for reducing costs of fragment analysis on ABI machines using a generic "M13" tail to cheap primers. Since it saves costs, I would like to use this method, but I have a few questions about its utility. Has anyone out there used this method enough to give me feedback on some of the potential pitfalls?

I am running microsattelites to determine parentage on an ABI 3100. I have 9 primers, that I can divide up pretty well into the 3 flourescent dyes. Ones that share a color are separated sufficiently by fragment length to resolve as different loci in the results. My question is primarily concerned with the PCR. I will certainly have to do different colors in different PCR reactions, but I was hoping that I might multi-plex single colors. What this would involve is putting the 3 primers that I would like to code with one color (say all should be FAM, and each fragment differs in length - 80bp, 150bp, and 190bp), in the PCR with the M13-dye and the template DNA. Do you know of any problems associated with this approach? My concern is that there will be a much higher PCR failure due to binding errors between the M13 and the primers (since there are 3), or that the primers might bind to eachother with the M13-tails. With too many errors, I would be better off buying each of the primers already labeled so that I might save on PCR costs (I have lots of samples!!) and can effectively multiplex in the fragment analysis. Regardless the M13 method certainly saves a llot of money in the identification of polymorphic primers (I started with 30 primers) and figuring out the sizes of each in order to determine how to multiplex them.

Thanks for any tips you can give me! Alexis Chaine
University of California, Santa Cruz
chaine@biology.ucsc.edu

"Alexis.Chaine" <chaine@biology.ucsc.edu>

MBL InfectiousDiseases

Visiting Scholars in Global Infectious Diseases Graduate Student / Postdoctoral Fellow / Independent Investigator

The Marine Biological Laboratory (MBL) announces the development of a new visiting scholars program to encourage the application of genomic and functional genomic approaches to the study of parasitic diseases. Applications are invited from graduate students, post-doctoral fellows and independent investigators to join year-round investigators in the Global Infectious Diseases Program to conduct experiments on important human pathogens. Individuals working in developing countries are encouraged to apply. The Visiting Scholarships provide short-term support (typically several months) including research support, travel, housing and meals at the Marine Biological Laboratory. Applications should include a brief CV (NIH or NSF style Biosketch), a two-page description of the proposed research and names and contact information for three references.

Global Infectious Diseases Laboratories at the MBL: Stephen Hajduk (molecular biology and biochemistry of parasites); Andrew McArthur (global gene expression and computational biology in eukaryotic pathogens); Bob Sabatini (epigenic regulation of gene expression in trypanosomes); Mitchell Sogin (genomics and molecular evolution of parasites); Jennifer Wernegreen (bacteria-insect symbiosis).

Please send applications to:

Dr. Stephen L. Hajduk, Global Infectious Diseases Program, Marine Biological Laboratory, 7 MBL Street, Woods Hole, MA 02543

Applications reviewed beginning January 1, 2004.

NSF grants

The 2004 Presidential Awards for Excellence in Science, Mathematics and Engineering Mentoring program solicitation, NSF 04-525, is available electronically via NSF's Online Document System at <http://www.nsf.gov/pubs/2004/nsf04525/nsf04525.htm>. The deadline for nomination submittals is March 2, 2004 (First Tuesday in March).

Mark W. Courtney Phone: 703-292-7187 Program Director, Population Biology FAX: 703-292-9064

Division of Environmental Biology Email: mcourtne@nsf.gov

National Science Foundation Web: <http://www.nsf.gov>
4201 Wilson Blvd. Arlington, VA 22230

NOTE: NSF PHONE NUMBERS MAY BE LOOKED UP AT: <http://staff.nsf.gov> Center for Synthesis in Biological Evolution <<http://nsf.gov/pubsys/ods/-getpub.cfm?ods.key=nsf03570>>

"Courtney, Mark W." <mcourtne@nsf.gov>

Old journals

I wish to give away the below biological journals.

I will give the journals away, free. They could be collected from Oxford, England, or we could arrange (at cost) to ship them elsewhere.

Contact me, d.barker@reading.ac.uk if interested.

Here are the journals:

Biological Journal of the Linnean Society, Vol. 14 (1980) - Vol. 54 (1995) (incomplete).

BSBI Abstracts (1996-1998).

BSBI News, No. 9 (1975) - No. 81 (1999) (incomplete).

BSBI Scottish Newsletter, (1995-1999).

Canadian Journal of Botany, (1969 - 1983) (incomplete).

Journal of the Arnold Arboretum, (1985-1988), Vol. 67-69, Vol. 32 part 3 (1951), others.

Journal of the Linnean Society Botany / Botanical Journal of the Linnean Society, Vol. 18 no. 114 (1881) - Vol. 116 (1994) (incomplete, but some volumes complete).

Journal of Natural History, Vol. 30 part 9 (1996).

The Linnean, Vols 9 - 11.

London Botanical exchange Club Report of the Curator and List of Desiderata, 1869.

Memoires du Museum National d'Histoire Naturelle, N.S. Ser. B., Vols 11, 20.

National Museum of Natural Sciences / National Museums of Canada Publications in Botany, Nos 2 - 4 (1973 - 1974).

New Zealand Journal of Botany Vol. 1 parts 1-2, Vol. 2 part 4, Vol. 12 part 1.

Notulae Systematicae, Vol. 1 part 1 (1909) - Vol. 1 part 11 (1911), Vol 3 part 7.

Smithsonian Contributions to Botany (approx. 1974-1986).

Symbolae Botanicae Upsaliensis, Vol. 2 (1933) - Vol. 29 (1968) (complete/incomplete?).

Systematic Biology, Vol. 44 (1995) - Vol. 47 (1998).

Watsonia, Vol. 8 part 1 (1970), (1996-1999) (complete).

Thank you,

Daniel Barker <d.barker@reading.ac.uk>.

Percichthyidae samples

I'm currently a PhD student studying molecular phylogeny of the Percichthyidae (Perciformes) but am having trouble obtaining tissue samples from species found in South America. I am seeking tissue samples from *Percichthys* spp. and *Percilia* spp. These species occur in Chile and others are found in Argentina. If anyone have information on how I can obtain some samples, that would be greatly appreciated. Thank you

Kiet Truong PhD research School of Ecology and Environment PO Box 423 Deakin University, Warrnambool Victoria 3280. Australia ph: (613) 5563 3569 email: kiet@deakin.edu.au

Kiet (Mike) Truong PhD Research School of Ecology and Environment PO Box 423 Deakin University, Warrnambool Victoria 3280. Australia ph: (613) 5563 3569 email: kiet@deakin.edu.au

Pheidole Ant Specimens

Request for Pheidole ant specimens:

I am a graduate student at Harvard University under the supervision of Dr. Naomi Pierce and Dr. Edward O. Wilson. My dissertation project involves reconstructing the molecular phylogeny of ants from the genus *Pheidole*.

Ants from the *Pheidole* genus belong to the tribe Pheidolini (subfamily Myrmicinae) and are distributed worldwide. In my attempt to sequence the DNA of this genus, it is imperative that I have as many representatives from the genus as possible. My main goal is to understand the relationships among the species in the New World *Pheidole*, although I am very interested in also attempting to understand the relationship of the Old World *Pheidole* with that of the New World species. I am therefore attempting to solicit the help of people who have collected *Pheidole* ants to send them for DNA work. I currently intend to base my analysis on three gene regions (COI, COII and the wingless nuclear gene).

In order to do the DNA analysis of the ants sent to me, the ants need to have been preserved in 95% -100% ethanol with complete collection information. It has been my experience that any specimen that is over 10 years old has degraded at the molecular level and is often unusable for molecular work. Since some *Pheidole* ants are extremely small, it is sometimes necessary to use more than one ant to extract DNA, as long as the ants are from the same colony. Again, if you were able to send more than one individual ant, it would be greatly appreciated. I would also request that you send at least one major worker, as well as, several minor workers, since many of the identifications rely on the major caste.

Please help me acquire additional specimens from any country (including the USA) you have or are planning on collecting in. Also, I would greatly appreciate if you would forward this message to colleagues whom you think may be able to assist in the acquisition of specimens, or supply me with their e-mail, facsimile, or postal addresses. Ideally, I hope that at least two specimens of each species could be supplied: the first specimen as a DNA sample, the second as a voucher for future reference. Voucher specimens will be deposited at the Museum of Comparative Zoology at Harvard University.

Ants should be sent to the following address:

Corrie Saux Harvard University Museum of Comparative Zoology 26 Oxford Street Cambridge, MA 02138 USA

If you would like to contact myself, Corrie Saux, by

phone or email, please see information below. Also, I am willing to reimburse any costs for the shipment of specimens. Thank you for your time and if you have any questions please contact me.

Corrie Saux Harvard University Department of Organismic and Evolutionary Biology Museum of Comparative Zoology 26 Oxford Street Cambridge, MA 02138 USA phone (617) 496-4076 fax (617) 495-5667 csaux@oeb.harvard.edu

Best Regards, Corrie Saux

Power supply manual

Hello everyone, I am looking for Operating Manual for Power Supply PS3003 (3000V, 250mA, 300W) by Amilabo (or similar). I am trying to use it for acrylamide gel electrophoresis (microsatellite DNA) and badly need any infos how to program it, (There are four buttons for programming: V.H. , min, Reset, Off), however I am unable to enter "edit" session.

Maybe somebody is using this and may help me how to start it working.

Thanks in advance Miroslaw Ratkiewicz Institute of Biology University of Bialystok, Poland. e-mail ermi@uwb.edu.pl

Restriction Enzyme RleAI

Hi Everyone,

I'm trying to get hold of a restriction enzyme called RleAI. Its recognition site is CCCACA(N)₉NNN[^]. REBASE tells me that it is not commercially available. I was wondering if anyone has used it or knows of a supplier? It would make my life much easier!

Cheers,

Felicity Jones. Felicity Jones Institute of Cell, Animal and Population Biology University of Edinburgh United Kingdom EH9 3JT Ph: +44 (0)131 650 8667 Fax: +44 (0)131 650 6564 felicity.jones@ed.ac.uk

Salamandra samples answers

Dear EvolDir members,

Much obliged for the replies regarding salamander tissue preservation for DNA extraction. Attached are all the replies.

Cheers,

Nir Peleg, PhD program Institute of Evolution, Faculty of Science & Science Education, University of Haifa 31905, Israel E-mail: nirpo@hotmail.com

Dear Nir,

we did genetic analyses on *Euproctus asper* mtDNA and we never had any problems to extract DNA after storing samples in 95% Ethanol. Samples were good for more than 1 year without much loss of quality and without storage in the freezer.

Another possibility we used are buccal swabs. This method works very good on bigger newts. If you are interested in further information, do not hesitate to ask.

Sincerely,

Jens- Dr. Jens Poschadel Dipl.-
Biologe Goldbekufer 2522303 Hamburg Germany

Hi Nir, our samples were stored in 95% EtOH at -20C something like 15 years ago, and they are still very well preserved. I know that some people store samples in EtOH at room temperature, but I can't tell anything about long term (> 1 year) preservation in such a way. best - Massimo Pierpaoli Istituto Nazionale per la Fauna Selvatica Genetica della conservazione - Conservation Genetics Via Ca' Fornacetta 9 40064 Ozzano Emilia, Bologna ITALY e-mail: pierpaoli@fastwebnet.it Lab. tel.: +39.051.6512257 Office tel.: +39.051.6512253

Dear Nir, I have no experience working on Salamandra, however, from my own experience working on corals, I can tell you that I have used ethanol preserved samples, for microsat analyses also, and I recommend placing the samples in the fridge, if you have space, and change the ethanol regularly, if you can only keep them at room temperature, they should be OK for at least one year. Good luck! Marie.

Ok, you can preserve your samples best for several years at -80deg C in 70% ethanol, to prevent degradation of sample as well as DNA which can be amplified at any

desirable time,

best luck,

regards,

Mahesh S. Dharne National Center For Cell Science Molecular Biology and Evolution Unit, University campus, Pune, (M.S.), India Tel # 91(20)5690922, Fax #91(20)5692259 web: <http://www.nccs.res.in> Cellular no: 919822417027

Dear Nir We keep samples like yours in the fridge, and they seem to be doing OK for at least >8 years. In my opinion though, it is very important to make sure that the tissue is in small enough pieces in a large enough volume of EtOH, otherwise it will rot in the tube! Just make sure you don't have a large amount of tissue stuffed in a tube with only a token amount of EtOH!! Best wishes Si Creer

Dear Nir, In relation to your DNA preservation question, I have preserved rat tissue in 70% ethanol and stored them in 1ml tubes kept in a cupboard at room temperature (20-25 degrees Celsius) in our lab. I have stored them this way for over 3 years and can still obtain good DNA yields from all samples. Cheers, Craig

Dear Nir, I have been keeping and using reptiles and amphibian tissues for the last 6 years and I always kept my tissues in 95% alcohol at room temperature (including Salamandra) and they work fine. I guess your samples will be safe just at room temperature. However, if you have storage space in a 4 degrees Celsius chamber or fridge it would be even better. Cheers, Salvi

Dr. Salvador Carranza Department of Zoology The Natural History Museum Cromwell Road SW7 5BD, London UK Tel: +44-(0)20-7942-6121 Fax: +44-(0)20-7942-50 54 Email: s.carranza@nhm.ac.uk <http://www.nhm.ac.uk/zoology/home/carranza.htm>

Dear Nir, I had the same "storage problem" with my samples of antarctic fishes and I suggest to keep samples in EtOH absolute at 4C.... in this way I have been preserving my samples for many years... I hope this helps.... best regards.. chiara Chiara Papetti PhD student (Evolutionary Biology) Dept of Biology Of Padova University Of Padova Via G. Colombo I-35100 Padova Italy e-mail cpapetti@bio.unipd.it chiara.papetti@unipd.it Tel 0039 049 8276222

Dear Nir,

as long as you need only the DNA and not the tissue itself, try this method: Bahl A & Pfenninger M (1996a) A rapid method for isolation of DNA using laundry detergent. *Nucleic Acids Research* 24, 1587-1588.

Kuch U, Pfenninger M & Bahl A (1999) Laundry Deter-

gent effectively preserves Amphibian and Reptile blood and tissue for DNA Isolation. *Herpetological Review* 30, 80-82.

Sounds odd, but works perfectly.

Best wishes, Markus

Dr. Markus Pfenninger Wiss. Assistent Abt. Ökologie & Evolution J.W. Goethe-Universität Bio-Campus Siesmayerstraße 60054 Frankfurt Germany Tel.: ++496979824714 Fax: ++49697984910 eMail: Pfenninger@zoology.uni-frankfurt.de

nirpo@hotmail.com

junctions.

2. In a previous upload I have accidentally included the debug version of two DLLs that may not carry the function to the end. Please use the new version.

3. There are a number of other improvements and bug-fixes.

Best. Xuhua

Dr. Xuhua Xia Biology Department University of Ottawa Ottawa, Ontario Canada K1N 6N5 Tel: (613) 562-5800 ext 6886 Fax: (613) 562-5486 Email: xxia@uottawa.ca URL: aix1.uottawa.ca/~xxia

Schuelke M13 reference

Many of you asked for the original reference to Schuelke's economic fragment labeling system. Here it is:

Markus Schuelke (2000) An economic method for the fluorescent labeling of PCR fragments, *Nature Biotechnology* v18 (2): pp233-234

I will also send out a list of key responses to my question when they start to tail off! Thanks again to all who can share their experience with us! Alexis

University of California, Santa Cruz Ecology and Evolutionary Biology

Alexis Chaine <chaine@biology.ucsc.edu>

Software DAMBE update 2

Dear All,

I have just uploaded a new version of DAMBE to

<http://aix1.uottawa.ca/~xxia/software/software.htm> and

<http://web.hku.hk/~xxia/software/software.htm> 1. Users reported difficulty to access GenBank to retrieve and parse sequences. I have revised DAMBE according to the new NCBI access to GenBank so that you can do it again. I have improved the parser so that you can not only get CDS, introns, exons, upstems and downstream of sequence elements, but also the intron-exon

I apologize if this is a duplicate posting, but I didn't see it come through when I first sent it a week and a half ago.

We are pleased to announce the release of Hickory v1.0. Hickory provides routines for analysis of genetic structure in populations in a Bayesian contacts. The routines currently available allow inference with either dominant or co-dominant markers.

New features in this version include the ability to perform posterior comparisons of estimates from different data sets and the ability to produce posterior density and sample trace plots within the program.

Hickory is free software, released under terms of the GNU General Public License. Binaries for Windows and Linux are available from

<http://darwin.eeb.uconn.edu/hickory/hickory.html> If you'd like to read more about the analytical routines that Hickory provides, documentation is available at

<http://darwin.eeb.uconn.edu/hickory/-documentation.html> Kent Holsinger and Paul Lewis

– Kent E. Holsinger kent@darwin.eeb.uconn.edu <http://darwin.eeb.uconn.edu> – Department of Ecology & Evolutionary Biology – University of Connecticut, U-3043 – Storrs, CT 06269-3043

Software NestedCladeAnalysis

A new inference key associated with the nested clade analysis (NCA) is now available at the GeoDis 2.0 web-site: <http://InBio.byu.edu/Faculty/kac/crandall.lab/geodis.htm>. The explanations associated with the new key are discussed in the upcoming publication: Templeton, A. R. (2004). "Statistical phylogeography: methods of evaluating and minimizing inference errors." Molecular Ecology In press. This paper will be published as part of a special issue on phylogeography soon to be published in Molecular Ecology.

Keith Crandall

"Keith A. Crandall" <keith_crandall@byu.edu>

Software Profile Treefinder

Dear All,

TREEFINDER has now an utility to compute rate profiles along sequence alignments, which might be useful if one is investigating selective forces on DNA sequences.

Another new tool can calibrate phylogenetic trees in time using Michael J. Sanderson's nonparametric rate smoothing method (NPRS). It outputs a chronogram and also a ratogram with estimates of absolute evolutionary rates.

Finally, the new version comes with a more informative documentation on the TL programming interface.

As usual, the new version is available at www.treefinder.de and runs on Windows, Linux and MacOS X.

By the way - I am looking for sponsors or a new job.

Cheers, Gangolf

Gangolf Jobb <jobb@stat.uni-muenchen.de>

Software SeqGen v1 2 7

I have just uploaded a new version of Seq-Gen to our web site:

<http://evolve.zoo.ox.ac.uk/software/seqgen/> Seq-Gen is a program that will simulate the evolution of nucleotide sequences along a phylogeny, using common models of the substitution process. A range of models of molecular evolution are implemented including the general reversible model. Nucleotide frequencies and other parameters of the model may be given and site-specific rate heterogeneity may also be incorporated in a number of ways. Any number of trees may be read in and the program will produce any number of data sets for each tree. Thus large sets of replicate simulations can be easily created. It has been designed to be a general purpose simulator that incorporates most of the commonly used (and computationally tractable) models of DNA sequence evolution.

The new version includes an improved the random number generator - now uses the Mersenne Twister (see <http://www.math.keio.ac.jp/~matumoto/-emt.html>). Mac OS X version now includes a new graphical user interface for Seq-Gen called "SGrunner" written by Thomas P. Wilcox of the Long Key Tropical Research Center, Florida. This allows all Seq-Gen's settings to be controlled in a dialog box and the settings can be saved as a file for repeated use. Thanks to Thomas for letting me distribute this program.

Thanks, Andrew

-

Andrew Rambaut, EMAIL - andrew.rambaut@zoo.ox.ac.uk Zoology Department, WWW - <http://evolve.zoo.ox.ac.uk/> University of Oxford, TEL - +44 1865 271261 South Parks Road, Oxford, UK FAX - +44 1865 271249

Software TeachingPhylo HETERO

HETERO: A PROGRAM TO SIMULATE THE EVOLUTION OF DNA ON A FOUR-TAXON TREE

9723367806 E-mail: javisan@ceab.csic.es Web: <http://www.ceab.csic.es>

University 71 Dudley Road, New Brunswick, NJ 08901 Phone: (732)-932-6555 ext. 332 Fax: (732)-932-4083 Email: tuoshi@imcs.rutgers.edu <http://www.marine.rutgers.edu/ebme/index.html>

Tissue storage

Please be so kind and pass on the following message:

I need advice on tissue storage methods for later mRNA extraction. The tissue I am using (beetle horn primordia) is small, so I need to accumulate a significant amount before a RNA extraction makes sense. So far I have been using RNAlater, but with mixed results. Often the tissue will not soak in the solution and will not sink, even after centrifugation. As a next step I will try to store the tissue directly in TRIZOL. I anticipate storing the tissue for about 2-4 weeks. Please let me know if you have any advice on this or alternative approaches.

Many thanks

Armin Moczek

Armin P. Moczek, PhD Center for Insect Science, Department of Molecular and Cellular Biology, and Department of Ecology and Evolutionary Biology University of Arizona, Tucson

Mailing address: Armin P. Moczek University of Arizona Life Sciences South # 209 1007 E. Lowell Street Tucson, AZ 85721, USA

phone: (520) 626 3955 fax: (520) 621 2590
email: arminmo@email.arizona.edu <http://cis.arl.arizona.edu/PERT/people/Moczek/index.htm>

Tree distance

Dear evolutionist.

Is there any software that can calculate the distance between two phylogenetic trees based on both tree topology and genetic distance? Any information is highly appreciated!

Sincerely

Tuo Shi

Institute of Marine and Coastal Sciences Rutgers

cDNA size

Please be so kind and pass on the message below. Thank you!

Armin Moczek

I need advice on methods to size select a cDNA pool. Thus far we have used ClonTech CHROMA spin columns to size-select, but with mixed success. Often the columns remove the selected size range only partially, also remove large fragments, and have low yield. I am dealing with small cDNA quantities and ideally would like to use a method that minimizes loss of sample during the procedure. Unless I have no other choice I would prefer not to use radioactive labeling and a drip column as I have no experience in that. Any advice on alternative methods that have worked for you in the past would be terrific!

Thanks!

Armin Moczek

Armin P. Moczek, PhD Center for Insect Science, Department of Molecular and Cellular Biology, and Department of Ecology and Evolutionary Biology University of Arizona, Tucson

Mailing address: Armin P. Moczek University of Arizona Life Sciences South # 209 1007 E. Lowell Street Tucson, AZ 85721, USA

phone: (520) 626 3955 fax: (520) 621 2590
email: arminmo@email.arizona.edu <http://cis.arl.arizona.edu/PERT/people/Moczek/index.htm>

cpDNA questions

I have used several of the universal cpDNA primers published by Weising and Gardner (1999) for analysis of a polyploid plant (*Cerastium alpinum* and related species).

First: For one of the primers (CCMP1) we got NO products in about half of the individuals. We think that it is not due to bad DNA template because the same individuals give good products for all other primer pairs. Could it be some mutation in the primer region, though it should be rather conservative (“universal” primers...)? How common is this phenomenon?

A second question: we got more than one “size-type” of fragments amplified for some of these primers. We are about to test offspring to verify maternal inheritance -

but how common is it with duplications in cpDNA? Or reports of multiple clones of cpDNA in polyploids?

Best regards, Ammie

Anna-Britt Nyberg Berglund Dept. of Natural and Environmental Sciences Mid Sweden University S-851 70 Sundsvall Sweden

Phone: +46 60 14 84 02 Fax: + 46 60 14 88 02

Email: Anna-Britt.Nyberg-Berglund@mh.se

PostDocs

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DalhousieU Phylogenetics

Postdoctoral position in statistical and evolutionary bioinformatics/phylogenetics.

We are seeking a postdoctoral candidate with training and/or experience in statistical modeling to join a collaborative group at Dalhousie University in Halifax, Nova Scotia funded by Genome Atlantic, one of five Genome centres in Canada and sponsored by the Canadian Institute for Advanced Research, Program in Evolutionary Biology. The postdoctoral position would be funded for 2 years, starting in March 2004, with the possibility of an additional year, at a salary commensurate with qualifications and experience.

The successful candidate would join ongoing research projects in the general areas of modeling genome and proteome evolution at the most ancient levels of divergence (i.e. at the prokaryotic/eukaryotic split). Specific interests include developing phylogenetic methods and software tools that incorporate lateral gene transfer as a process, more accurate models of protein evolution that account for covarion, rate-shift and 3D structural effects and site-specific amino acid frequencies, developing methods for phylogenetic inference from multiple gene sets and developing methods for estimating confidence intervals for phylogenies.

Candidates with strong programming skills and a background in statistical modeling, statistical genetics or molecular systematics are desired. The successful candidate will be situated in the Mathematics and Statistics Department but will have the opportunity to work closely with a vibrant collaborative group of statisti-

cians, genomicists, and bioinformaticians from the Department of Mathematics and Statistics (Ed Susko and Chris Field), Department of Biochemistry and Molecular Biology (Andrew Roger and W. Ford Doolittle) Department of Biology (Joe Bielawski) and the Faculty of Computer Science at Dalhousie University (Christian Blouin).

A flavour of the research interests of the group can be gleaned from the following publications:

Susko, E., Field, C., Blouin, C. and Roger, A.J. (2003). Estimation of rates-across-sites distributions in phylogenetic substitution models. *Systematic Biology*, 52, 594–603.

Inagaki, Y., Blouin, C., Susko, E. and Roger A.J. (2003). Assessing functional divergence of EF-1alpha and its paralogues in eukaryotes and archaeobacteria. *Nucleic Acids Research*, 31, 4227–4237.

Susko, E. (2003). Confidence regions and hypothesis tests for topologies using generalized least squares. *Molecular Biology and Evolution*, 20:862–868.

Blouin, C., Boucher, Y and Roger, A.J. (2003) Inferring functional constraints and divergence in protein families using 3D mapping of phylogenetic information. *Nucl. Acids Research* 31:790-797

Susko E., Inagaki, Y., Field, C., Holder, M.E. and Roger, A.J. (2002) Testing for differences in rates-across-sites distributions in phylogenetic subtrees *Mol. Biol. Evol.* 19:1514-1523

Archibald, J.M. and Roger, A.J. (2002) Gene conversion and the evolution of euryarchaeal chaperonins: a maximum likelihood-based method for detecting conflicting phylogenetic signals. *J Mol Evol.* 55:232-245

Interested candidates should send letter of application, a CV (including a list of publications) and a list of references to the address below.

Dr. Edward Susko Department of Mathematics and Statistics Chase Building Dalhousie University Halifax, Nova Scotia B3H 3J5 susko@mathstat.dal.ca

* Andrew Roger, Ph.D. * * CIAR Program in Evolutionary Biology & Genome Atlantic * * Department of Biochemistry and Molecular Biology * * Dalhousie University * * Rm 8B4, Sir Charles Tupper Medical Building, * * 5850 College Street, * * Halifax, Nova Scotia, B3H 1X5 * * Canada * * tel: 902 494 2620 * * FAX: 902 494 1355 * * lab: 902 494 2881 * * email: roger@hades.biochem.dal.ca * * Roger lab homepage: <http://hades.biochem.dal.ca/Rogerslab/> *

With apologies to F. Scott Fitzgerald:

“We believed in the true classification, the organic phy-

logeny that year by year recedes before us. It eluded us then, but that’s no matter – tomorrow we will sequence more genomes, make more trees, run PAUP faster, stretch out our arms further....And one fine morning –

So we beat on, boats against the current, borne back ceaselessly into the past.”

DukeU Baboon Demography

Postdoctoral position:demographic analysis

An NSF-funded postdoctoral position in demographic analysis is available in the lab of Susan Alberts at Duke University. The position is initially for one year but is potentially extendable to two or more years. Work will focus on demographic analysis of the Amboseli baboon population, using long-term data extracted from our behavioral and demographic database. We have over 30 years of high quality demographic data on this population. We have completed a deterministic model of population growth but seek to develop stochastic models; our preliminary stochastic models indicate substantial variance in vital rates over time and we want to pursue the implications of that variance. We also seek to develop estimates of individual fitness using demographic models as proposed by McGraw and Caswell (1996). Applicants should have extensive experience with demographic modelling and computer simulations. The position is laboratory rather than field-based, but a trip to the field site is possible. Start date is flexible but we would like someone to begin as soon as possible. Please note that this postdoctoral position is different from the genetics position advertised last month. For information about the research in the lab, visit <http://www.biology.duke.edu/albertslab/>, and for information about the Amboseli Baboon Research Project visit <http://www.princeton.edu/~baboon/>. Interested applicants please send CV, letter of interest, and contact information for three reference letters to Susan Alberts, alberts@duke.edu, by 15 Jan 2004. Wait to send letters of recommendation until requested.

–
Susan Alberts, Assistant Professor Department of Biology, Duke University, Box 90338, Durham NC 27708 phone 919-660-7272 fax 919-660-7293

Susan Alberts <alberts@duke.edu>

LouisianaStateU CompBiol

Computational Biology Postdoctoral Associate

An NIH-funded postdoctoral position is available to study the relationship between protein sequence evolution and protein structure and function using computational analysis. A Ph.D. and experience with computational biology or molecular evolution is required. Experience with likelihood, Bayesian analyses, and parallel or grid computation will be helpful. Refer to EvolutionaryGenomics.com for more details or contact dpollock@lsu.edu. Review of applications will continue until the position is filled. LSU is an EEO/Affirmative Action Employer.

David D. Pollock, PhD Department of Biological Sciences Biological Computation and Visualization Center Louisiana State University, Baton Rouge, LA 70803

Office: 645 LSB Annex Phone: 225-578-4597 Fax: 225-578-2597 Email: dpollock@lsu.edu, david-dpollock@yahoo.com www.biology.lsu.edu/webfac/dpollock/ David Pollock <daviddpollock@yahoo.com>

LouisianaStateU HostParasiteCoevol

Post-doc position in:

MOLECULAR STUDIES OF HOST-PARASITE CO-EVOLUTION

ATTENTION: Molecular evolutionists, parasitologists, entomologists, and persons with GIS skills

We are looking for a person to fill a 3-year NSF-funded postdoctoral position to pursue molecular-based investigations of coevolutionary relationships between pocket gophers and their chewing lice. This project investigates a particularly complicated and species-rich assemblage of lice and gophers in Mexico and incorporates GIS technology to investigate factors influencing louse distribution on hosts and host distribution over geography. The experimental design involves molecular-based phylogenetic analysis, application of GIS technology to host and parasite distributions, and

occasional fieldwork in Mexico.

The successful applicant must have skills in molecular evolution (primer design, PCR amplification, DNA sequencing, and knowledge of phylogenetic analysis). Beyond that, we seek a person with experience in GIS analysis (ArcView, GARP analysis, etc.) or a genuine motivation to learn these techniques, which will be important tools in our effort to use GIS to model host-parasite coevolution. We especially encourage entomologists and parasitologists to apply, as their insect/parasite perspectives will complement the mammal/host perspectives of the PIs on this project.

The position is available after March, 2004 and renewals for the second and third years will be contingent on progress and productivity. Review of applications is ongoing and will continue until the position is filled.

Applicants must have a Ph.D. in biology or a related field. Please send your CV, a statement of research interests, and the names, phone numbers, and email addresses of three references to: Dr. Mark S. Hafner, Museum of Natural Science, 119 Foster Hall, Louisiana State University, Baton Rouge, LA 70803 (voice: 225-578-3083; fax: 225-578-3075; e-mail: namark@lsu.edu). For additional information and links go to www.museum.lsu.edu/postdoc.html

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Mark S. Hafner, Lowery Professor and Curator of Mammals LSU Museum of Natural Science Professor, Department of Biological Sciences Louisiana State University Baton Rouge, Louisiana 70803 Voice: 225-578-3083; FAX: 225-578-3075 E-mail: namark@LSU.edu Museum Home Page: www.museum.LSU.edu

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McMasterU SexBiasedGenes

POSTDOCTORAL POSITION- Drosophila Genomics/ Sex-Biased Genes, Evolution and Speciation

A full-time Postdoctoral Research position is available to study the comparative genomics of sibling species of the *Drosophila melanogaster* species complex. The main focus of the project is on the comparison of sequence divergence and variation in gene expression in sex-and reproduction -related genes and their role in speciation.

The candidate should have a Ph.D. in biology, genomics

or a related field with demonstrated evidence of interest in evolutionary biology and molecular evolution. Previous experience in sequencing and/or microarray studies and computer data analysis is essential.

Position is available immediately. Starting date is flexible and the search will continue until the position is filled. Competitive salaries are available for outstanding, experienced candidates.

Interested individuals should send a letter of interest, CV, reprint or preprint of relevant recent publications, and names and e-mail addresses of three referees. Applicant should also indicate the date they will be available to begin the position. Send or e-mail all materials to:

Rama S. Singh Department of Biology 1280 Main St.
W Hamilton, ON Canada L8S 4K1 Phone: (905)
525-9140 ext. 24378 Fax: (905) 522-6066 E-Mail:
singh@mcmaster.ca

Seattle PopGenetics Rockfish

POSTDOCTORAL FELLOWSHIP, NATIONAL RESEARCH COUNCIL: MOLECULAR ECOLOGY, POPULATION GENETICS, AND SYSTEMATICS OF ROCKFISH

A postdoctoral fellowship is available in our laboratory to pursue a variety of potential studies in rockfish of the North Pacific. Proposals will be considered that address one or more issues related to the genetics, demographics, life history, and ecology of this highly speciose and evolutionarily interesting group. The Sebastes rockfish complex of the North Pacific has been compared to the East African cichlid "species flock" as a laboratory for the study of speciation and ecological diversification. Research opportunities range from higher-order systematics and evolutionary history to fine scale population structure relevant to, for example, Marine Protected Areas. Of particular interest will be proposals that target species of conservation concern (or appropriate surrogates) and provide a combination of basic descriptive information as well as exploration of more general biological phenomena. We're looking for creative applications using varied molecular techniques, different scales of temporal divergence, and various ecological life-history classes (e.g., sedentary to pelagic).

The Genetics and Evolution Program is the oldest fish genetics laboratory in the country. Initiated in the

1970s, this complex of lab facilities provides state-of-the-art genotyping and DNA sequencing capabilities. Current research includes a wide range of evolutionary and population genetic studies, genome mapping, and quantitative genetics (both traditional breeding designs and molecular studies). For more information see the NWFSC website (<http://www.nwfsc.noaa.gov/>).

The successful candidate will participate in collaborations with geneticists and ecologists at the Northwest Fisheries Science Center (Montlake campus and Newport Research Station) as well as with colleagues from the Southwest Fisheries Science Center, Oregon State University, Oregon Department of Fish and Wildlife, University of Puget Sound, University of Washington, Washington Department of Fish and Wildlife, Canadian Department of Fisheries and Oceans, and other Pacific Rim laboratories.

We are seeking a candidate with both strong molecular skills and a firm grasp of evolutionary and population genetic theory. Current funding is available for 1 year with likely extension for a second year. Please send a cover letter to paul.moran@noaa.gov <mailto:paul.moran@noaa.gov> describing your research interests with possible ideas for this proposal, a complete CV, and names of three references. The fellowships are funded by NOAA and administered through the National Research Council. A short list of candidates will be asked for full proposals to be submitted to the NRC before 1 February 2004.

Paul Moran Conservation Biology Division Northwest Fisheries Science Center 2725 Montlake Boulevard East Seattle, Washington USA 98112-2097 Voice 206-860-3245

Ewann Berntson <Ewann.Berntson@noaa.gov>

Solanum monograph

Postdoc positions.

Two postdoctoral positions, one at the University of Utah and one at the Natural History Museum in London, are available on an internationally collaborative project to produce a global monograph of the genus *Solanum* (Solanaceae). The project is one of four Planetary Biodiversity Inventory programmes funded by NSF in collaboration with the ALL Species Foundation. *Solanum* includes between 1000 and 2000 species and is one of the largest genera of angiosperms. The

species level taxonomy, including images, keys and specimen data, will be made available over the Internet. Responsibilities include monographic taxonomy of selected species groups of solanums; specimen and image databasing and manipulation; field work for the collection of herbarium, seed and silica gel samples; generation of molecular data for phylogeny reconstruction (mainly sequences of chloroplast and nuclear genes); maintenance and analysis of living greenhouse collections of Solanaceae; data analysis, presentation, and publication; in Utah the candidate will be involved in the training and supervision of undergraduate lab assistants; and oversight of routine lab activities; in London the candidate will be involved in supervision of international visitors to the project and in the design of the project database and website. Candidates should have a Ph.D. and experience in plant systematics, field work and with working in a team; experience with Solanaceae is preferred but not required, as is experience with molecular systematics and a variety of methods of data analysis. Both positions are available for one year beginning in Mar-Apr 2004 and extendable for up to five years.

Electronic submission of applications is encouraged.

For the position at the University of Utah: Review of applications will begin immediately and continue until a suitable candidate is chosen. Applicants should submit a statement of interest and description of past experience, a curriculum vitae, and contact information (names, email addresses, and phone numbers) of three references to:

Lynn Bohs Department of Biology 257 South 1400 East University of Utah Salt Lake City, UT 84112 USA E-mail: bohs@biology.utah.edu Phone: [1] (801) 585-0380

Information on the Biology Department at the University of Utah is available at www.biology.utah.edu The University of Utah is an Equal Opportunity Employer.

For the position at the Natural History Museum in London: Deadline for receipt of applications is 1 February 2004; interviews of short-listed candidates will take place in late February. Applicants should submit a statement of interest and description of past experience, a curriculum vitae, and contact information (names, email addresses, and phone numbers) of three references to:

Victoria Lamb Human Resources The Natural History Museum Cromwell Road London SW7 5BD United Kingdom E-mail: vlcl@nhm.ac.uk Phone: [44] 207 942-5136

Information about both the NHM and the position can be obtained from Victoria Lamb and also from San-

dra Knapp in the Botany Department at the Natural History Museum, (e-mail: sk@nhm.ac.uk; tel. [44] 207 942-5171). The Natural History Museum is working towards equal opportunities.

Lynn Bohs Department of Biology 257 South 1400 East University of Utah Salt Lake City, UT 84112 (801) 585-0380

StonyBrook EvoResistance

Postdoc on Evolution of Resistance - Deadline Extended to December 15

A Postdoctoral Research position is available in Jeff Levinton's laboratory with an anticipated start date of February 1, 2004. The candidate should have experience in freshwater or marine benthic ecology and population biology, but experience in some aspect of population genetics of aquatic or marine organisms with molecular experience is also desirable. The research will focus on adaptation and the cost of evolution of resistance to metals and will involve studies of field density, dispersal ability, genetic differentiation, and life history costs and adjustments to the evolution of resistance. Funding is for at least two years with a salary of \$32,000 per year. A brief description of the research on evolution of resistance to metals, with downloadable reprints can be found at <http://life.bio.sunysb.edu/marinebio/-research.html> Please send a curriculum vita, letter stating interest and experience, and have at least two letters of reference sent to:

Jeffrey S. Levinton Department of Ecology and Evolution Stony Brook University Stony Brook NY 11794-5245 USA

or

levinton@life.bio.sunysb.edu

Email applications, in the form of pdf or MS word files are acceptable. Deadline for applications is December 15, or until a suitable candidate can be identified.

Stony Brook University is an Affirmative Action/Equal Opportunity Employer

Jeff Levinton

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Department of Ecology and Evolution State University of New York Stony Brook NY 11794-5245

tel 631 632 8602 fax 631 632 7626

=====

Research Home Page: <http://life.bio.sunysb.edu/marinebio/levinton.main.html> Marine Biology
 Web Page: <http://life.bio.sunysb.edu/marinebio/mbweb.html>

Jeff Levinton <levinton@life.bio.sunysb.edu>

Toulouse Biodiversity

Two-years Post-Doctoral Research Position - Population Genetics in Pig Biodiversity Toulouse, France

The French National Institute of Agronomical Research (INRA) is offering a two years post-doctoral position in Toulouse.

The aim is to assess the genetic biodiversity of European and Chinese pig populations based on diverse molecular information: nuclear microsatellite markers, mutations in known genes, mtDNA, Y chromosome polymorphisms. These different informations will be combined in order to characterise genetic variability and infer historical and phylogenetical relationships between populations. Details about a previous European project, dealing with the diversity of European breeds only, can be found at: <http://databases.roslin.ac.uk/pigbiodiv> The Fellow will analyse part of the data generated by an International Consortium (Europe and China) funded by the EC. He(he) will work closely with Drs Claude Chevalet and Magali SanCristobal* in the Laboratory of Cell Genetics, and will have contacts with the other members of the Consortium.

The candidate must have excellent background in population genetics, probability, and skills computer programming.

Toulouse is a nice middle size city, located in the South of France, not far from the Pyrenees mountains, the Mediterranean sea and the Atlantic ocean. This city is very dynamic, due to the presence of universities, aeronautic industries, etc ...

To apply, send e-mail with CV and names and e-mail of 3 references to msc@toulouse.inra.fr The position is available immediately and applications will be closed when a suitable candidate has been found.

* Magali SanCristobal Laboratoire de Genetique Cellulaire Institut National de la Recherche Agronomique, BP 27 31326 Castanet Tolosan Cedex, France Tel:(33)05.61.28.51.22 Fax:(33)05.61.28.53.08 email:

msc@toulouse.inra.fr

Prof. Etienne VERRIER <verrier@inapg.fr> UMR Génétique et Diversité Animales INA Paris-Grignon / Dépnt. Sciences Animales / Génétique Elevage et Reproduction INRA / Dépnt. Génétique Animale 16 rue Claude Bernard, 75235 PARIS cedex 05 Tél. + 33 - (0)1 44 08 17 48 Fax. + 33 - (0)1 44 08 86 22 http://www.inapg.fr/ens_rech/dsa/ger_genetique/gergen.htm

UChicago TranscriptRegulationEvolution

RESEARCH ASSOCIATE (=POSTDOCTORAL POSITION) to investigate the microevolution of transcriptional regulation. The research uses heat-shock genes/proteins in *Drosophila* as a model system, and will follow up on "Lerman, D.N., P. Michalak, A.B. Helin, B.R. Bettencourt, and M.E. Feder. 2003. Modification of heat-shock gene expression in *Drosophila melanogaster* populations via transposable elements. *Molecular Biology and Evolution* 20: 135-144." Proposed research would survey natural *Drosophila* populations for transposable element insertions in the proximal promoters of the heat-shock genome and comparable genesets, examine the impact of such insertions on transcriptional regulation, and test hypotheses of adaptive significance via laboratory evolution. The successful applicant will join a large and robust community of investigators and trainees from the graduate programs in Evolutionary Biology, Ecology & Evolution, Human Genetics, Genetics, and Organismal Biology & Anatomy at The University of Chicago. Techniques will include PCR, cloning-sequencing, bioinformatics, transposon-mediated transformation, luciferase reporter assays, quantitative RT-PCR, laboratory evolution, and *Drosophila* procedures. Requirements: completion of all requirements for the Ph.D. by start of the position, expertise in the above techniques or willingness to learn, and interest in the project and cognate areas. Start date 1 January - 1 June 2004. Duration: up to 3 years. Review of application materials will commence 23 December 2003 and continue until the position is filled. An Affirmative Action/Equal Opportunity Employer.

Recent progress in the research program of which this project is a component is described at: http://pondside.uchicago.edu/~feder/Martin_Feder.html. To be considered for the position, submit curriculum vitae,

names/phone#/email of 3 references, preferably electronically, to: Dr. Martin Feder m-feder@uchicago.edu
Department of Organismal Biology and Anatomy The University of Chicago 1027 East 57th Street Chicago, IL 60637 USA Phone: 773-702-8096 Fax: 773- 702-0037

Martin Feder <m-feder@uchicago.edu>

UCorkIreland PlantEvoGenomics

Postdoctoral Fellow (Plant Reproductive Genetics)

Plant Molecular Genetics Lab, Biochemistry Dept, University College Cork, LM 2.10, Cork, Ireland.

We seek applications for an enthusiastic and highly motivated Postdoctoral Fellow to join the research team of Dr. Charlie Spillane at University College Cork (www.ucc.ie), working on functional & evolutionary genomics of plant reproduction (using Arabidopsis & rice as models). The SFI-funded (www.sfi.ie) research in the group is primarily focused on topics such as genomic imprinting, gene dosage and apomixis. The research projects in the lab involve a range of multi-disciplinary approaches, mainly molecular biology, functional genomics, evolutionary bioinformatics and plant genetics, to study plant reproduction. The Postdoctoral Fellow should have a strong background (PhD) and extensive technical expertise in the areas of molecular biology and genetics. Candidates with prior experience in Arabidopsis/plant molecular genetics, plant developmental genetics, high-throughput genomics, Affymetrix genechip analysis, bioinformatics & evolutionary genetics are encouraged to apply. We are particularly interested in applications from researchers with a publication record highlighting their ability to conduct competitive molecular biology research. The successful applicant will have ability to conduct research in plant functional genomics, and will have excellent written and oral communication skills. There are opportunities to contribute to supervision and training of graduate & undergraduate research students. In addition to lab expertise, communication and leadership skills, dedication, teamwork and high levels of organization will be highly valued. If you are interested in joining the group as a Postdoctoral Fellow, please send an e-mail outlining your research interest and motivations, including: (a) your C.V. (please list publications and experimental skills) & (b) contact details and e-mail addresses for 3 referees to:

Dr. Charlie Spillane, Plant Molecular Genetics Lab,

Biochemistry Dept, University College Cork, LM 2.10, Cork, Ireland. E-mail: c.spillane@ucc.ie

The position will remain open until a suitable candidate is found.

Dr. Charlie SPILLANE, Plant Molecular Genetics, Dept of Biochemistry, University College Cork (UCC), 2.10, Lee Maltings, Cork, IRELAND

Tel: 00-353-21-4904124 (office) E-mail: c.spillane@ucc.ie

“Spillane, Charles” <C.Spillane@ucc.ie>

UGeorgia Hybridization

Postdoctoral Associate - Hybridization and Speciation

I anticipate hiring a postdoctoral associate for a two-four year appointment, with a start date as early as March 15, 2004. My group conducts research in the areas of natural hybridization, evolutionary genetics and speciation. Most of our research studies have involved plant taxa. Current projects continue to emphasize both natural and experimental populations, and address conceptual issues from evolutionary biology and ecology.

The successful candidate will have a strong background in evolutionary biology and technical expertise in DNA genotyping of plants. They will work with the PI and graduate students in studying the effects of QTL on the fitness of plants in natural microhabitats. They will also carry out genotyping of plants from natural hybrid zones between the Louisiana Iris species, *Iris fulva* and *Iris brevicaulis*. Each of the studies is designed to reveal the factors that promote and limit introgressive hybridization between these species. These studies will thus test hypotheses concerning the evolutionary importance of natural hybridization and the processes leading to speciation.

Applications should arrive no later than February 1, 2004. Applicants should send a CV and a brief summary of research experience and interests. They should also have at least two letters of recommendation sent to: Michael L. Arnold, Department of Genetics, Life Sciences Building, University of Georgia, Athens, Georgia 30602.

For more information feel free to contact me via e-mail (arnold@plantbio.uga.edu) or telephone (706-542-1407).

– Michael L. Arnold Professor Department of Genetics Life Sciences Building University of Georgia Athens, GA 30602 e-mail: arnold@plantbio.uga.edu Ph: 706-542-1407 FAX: 706-542-3910

UIllinoisUC EvolDaphnia

Postdoctoral research position at the University of Illinois at Urbana-Champaign.

Anticipated start date: Spring 2004. The successful applicant will participate in field and laboratory research that focuses on the evolutionary ecology of Daphnia. This collaborative research is funded by an NSF FIBR grant “Causes and consequences of recombination”, and includes a team of 11 PIs at 6 institutions. The research addresses questions regarding the active individuals in the water column as well as the ties to the storage of viable eggs in the sediment egg bank. Skills in at least one, and ideally more, of the following areas: evolutionary ecology, community ecology, laboratory culture of zooplankton. The postdoctoral associate will spend several weeks each year in residence at Michigan States Kellogg Biological Station. At least two years of funding are available.

To apply, submit a letter of interest that describes your research background, a C.V., and the names and email contacts of three references to: Carla Cáceres (caceres@life.uiuc.edu). Review of applications will begin January 19, 2004 and continue until a suitable candidate is found.

– Posted for Dr. Cáceres by Kim Hughes kahughes@life.uiuc.edu

UK USA postdoc

Brian -

Could you please post an announcement for the following USA to UK postdoctoral fellowship. This excellent fellowship scheme is in its third year and could benefit from a bit more advertisement. Closing date is 31st Jan 2004.

<http://www.royalsoc.ac.uk/international/> <http://www.royalsoc.ac.uk/funding/fuk/usasum.htm> Many

thanks, Casey Bergman, Ph.D.

Department of Genetics University of Cambridge Downing St CB2 3EH Cambridge, UK

email: cbergman@gen.cam.ac.uk <http://www.gen.cam.ac.uk/casey>

Casey Bergman <cbergman@gen.cam.ac.uk>

UReading propagule banks

For distribution in the postdoc section of evoldir please. Many thanks.

THE UNIVERSITY OF READING SCHOOL OF ANIMAL AND MICROBIAL SCIENCES

Postdoctoral Research Assistant

PROPAGULE BANK CONTRIBUTIONS TO DEMOGRAPHY AND GENETIC DIVERSITY

Applications are invited for a NERC-funded Postdoctoral Research Assistant to investigate the role of propagule banks in contributing to demography and genetic diversity in two model freshwater and terrestrial systems. The project will combine empirical and modelling approaches to characterize temporal patterns of genetic variation within populations of the freshwater bryozoan, *Cristatella mucedo*, and the higher plant, *Brassica rapa*. The genetic structure of sediment bound propagules and of populations from different years will be characterized and subsequent simulations using stage structured models will identify key demographic parameters in both systems. Experience in DNA extraction, PCR, and the generation and analysis of microsatellite data is required. Training will be provided in the development and application of modelling (employing coalescent and Bayesian approaches) and in fieldwork. The project offers the opportunity to develop a unique combination of expertise in molecular ecology and modelling through interactions with associated staff (Okamura, Beaumont, Wilkinson at University of Reading and Freeland at Open University) and will provide a mechanistic basis for assessing the demographic role of propagule banks which will be applicable to a broad range of organisms. Salary in the RA1A salary scale (range 18,265- 27,339). The post is for a fixed period of up to 3.5 years ideally commencing prior to or on 1 April 2004 (precise start date negotiable). Informal enquires about the position should be directed to Dr B Okamura (b.okamura@reading.ac.uk)

or Dr M A Beaumont (m.a.beaumont@reading.ac.uk)

Application forms for the postdoctoral position quoting job reference R0338 A should be requested from The Personnel Office, The University of Reading, Whiteknights, PO Box 228, Reading RG6 6AJ. The closing date is the 30th of January, 2004.

USheffield BirdGenomes

Postdoctoral Research Assistant - Dept. Animal & Plant Sciences, University of Sheffield.

I am looking for a postdoc to work on a new project investigating the feasibility of mapping genomes of wild bird populations. The position is funded by NERC and The University of Sheffield, for a one year duration.

The aim of the project is to utilise chicken genome resources to identify, type and map single nucleotide polymorphisms (SNPs) in several pedigreed wild bird populations. The ideal candidate will have experience in Molecular Ecology techniques and an interest in one or more of the following areas: evolutionary biology, quantitative genetics, QTL analysis, population genetics.

The Department of Animal & Plant Sciences is one of the largest departments in the UK devoted to the study of whole organism biology. It currently comprises 34 academic staff and c. 46 research fellows/associates, 11 secretarial staff, and >50 research students. Biological research in the Department was rated 5* in the 2001 Research Assessment Exercise, and the Department's teaching was rated 24/24 in the 1999 Teaching Quality Assessment.

The recently refurbished Molecular Ecology Lab houses the research groups of Prof Terry Burke, Dr Dave Coltman & Dr Jon Slate as well as the Sheffield Molecular Genetics Facility. The lab is extremely well equipped including an ABI 3730 capillary sequencer.

Sheffield offers outstanding quality of life, an attractive, green environment with the Peak District right on its doorstep affordable living costs, excellent schools, short travel-to-work times, leading NHS care and a wide choice of good value housing.

Interested applicants should apply via the University Personnel Services department quoting reference number PR944. <http://www.shef.ac.uk/jobs/-jobs.all.php?shef=no> Informal enquiries should be

made to Dr Jon Slate (j.slate@sheffield.ac.uk) See also <http://www.shef.ac.uk/jon-slate/> Please note that the closing deadline for this post is the 23rd Jan 2004 (not 4th Jan as listed on the Personnel Services site)

J Slate <J.Slate@sheffield.ac.uk>

UTurku VolePopulations

Postdoctoral research post and Ph.D. student post in the project on

Multi-species cyclic vole populations: interspecific competition, and prey choice and emergent impacts of multiple predators for four years (2004 to 2007).

The project is at Dept. Biol., Univ. Turku (financed by the Academy of Finland).

The objective is to study multi-prey multiple predator interactions among voles and their avian and mammalian predators in the field. Main questions: 1) interspecific competition for space and habitat use of voles, 2) competition-induced habitat shifts of voles and predation risk, 3) competition and predation risk vs. reproductive performance of voles, 4) prey selection of predators in multi-predator situations, 5) risk by avian predators vs. hunting behaviour of small mustelid predators, 6) impacts of multiple predators on prey populations. (see, for example, Korpimäki et al. 2002, Proc. R. Soc. Lond. B 269: 991-997; Korpimäki et al. 2003, TREE 8: 494-495; Huitu et al. 2003, Ecology 84: 2108-2118). Details on the research environment, research projects and their productivity can be found in <http://users.utu.fi/ekorpi/-> http://www.sci.utu.fi/biologia/ekologia/-korpimaki_eng.htm and http://www.isihighlycited.com/isi_copy/Comm_news24.htm

The postdoctoral researcher will take part in the planning and execution of the project, in analysing the existing long-term observational and experimental data, in writing papers, and in supervision of the Ph.D. students Salary bracket: A22 (equivalent to approx. EUR 2100 per month).

The Ph.D. student will take part in the planning and execution of the project, as well as will analyse the existing long-term observational and experimental data, and write papers. The 4-yr post is expected to lead to a Ph.D. degree. Requirements: -MSc in Biology with specialisation in ecology -theoretical interest in ecology

research and experimental skills -skills to analyse data and to write mss -motivation and ambition to obtain a Ph.D. degree within four years. Salary bracket: A20 (equivalent to approx. EUR 1770 per month).

Queries and applications (CV, list of publications, a summary of research interests and motivation for this project) to prof. Erkki Korpimäki, tel. +358-2-3335699, e-mail ekorpi@utu.fi, fax +358-2-3336550. Deadline for applications is 10th Jan 2004. Address: Section of Ecology, Department of Biology, University of Turku, FIN-20014 Turku, Finland.

Erkki Korpimäki <ekorpi@utu.fi>

WashingtonStateU EvolDisease

Postdoctoral Position - School of Biological Sciences - Washington State University

Two year postdoctoral research position to work on evolutionary ecology of disease as part of a \$3 million NSF "Interdisciplinary Research Challenges in Environmental Biology" award. The work is to investigate coevolutionary dynamics of salamanders and iridoviruses, one of the pathogens implicated in the global decline of amphibians. The research should involve significant opportunities for collaboration as part of an international, interdisciplinary research team and for the successful applicant to develop new skills. WSU facilities include the College of Veterinary Sciences, which houses a diagnostic disease facility, the Center for Integrated Biotechnology, and state-of-the-art molecular facilities. Experience in one or more of the following areas will be given preference: amphibian ecology, population genetics, disease ecology, or virology. Start date is negotiable, but May, 2004 is targeted. For more information, please contact: Andrew Storfer, astorfer@wsu.edu; (509) 335-7922 - contact prior to application is encouraged. To apply: please send curriculum vitae, reprints of up to 3 significant publications, a statement of research interests, and names and contact information of 3 references to: Andrew Storfer, School of Biological Sciences, Washington State University, Pullman, WA 99164. Review of applications will begin on January 26, 2003 and continue until the position is filled.

WASHINGTON STATE UNIVERSITY IS AN EQUAL OPPORTUNITY/AFFIRMATIVE ACTION EDUCATOR AND EMPLOYER. Members of ethnic minorities, women, Vietnam-era disabled veterans,

persons of disability, and/or persons age 40 and over are encouraged to apply.

Andrew Storfer School of Biological Sciences Washington State University Pullman, WA 99164 phone: (509) 335-7922 fax: (509) 335-3184 email: astorfer@wsu.edu url: <http://www.wsu.edu/~storfer/>

WilliamMary ThermalTolerance

We seek to map genes on the X-chromosome of *Drosophila melanogaster* that are associated with high temperature thermotolerance and chill-coma recovery. The project involves fine-scale QTL mapping using SNPs and deletion/complementation techniques, artificial selection on and measurement of physiological performance (primarily knockdown temperature and chill-coma assays), and field collections in Australia and eastern North America to correlate the genetic patterns observed in the lab with patterns of genetic variation in nature.

The successful candidate will work in George Gilchrist¹'s lab at the College of William and Mary (<http://gwgilc.people.wm.edu/>), with up to three months of the year spent in David Rand¹'s lab at Brown University (<http://www.brown.edu/Departments/EEB/rand/>). The applicant should have a Ph.D. in some area of evolutionary biology, familiarity with QTL mapping techniques, a fondness for fruit flies in the lab and in the field, and a keen interest in evolutionary and ecological functional genomics. The postdoc will also supervise some terrific undergraduates involved in various aspects of the research. This NSF-funded position is available after March 1, 2004 for up to three years, with a competitive salary and full benefits.

Applicants should forward a cover letter outlining their interests in evolutionary biology and in this position, a current CV, and contact information for three referees. For more information, please contact George Gilchrist at gwgilc@wm.edu or (757) 221-7751.

George W. Gilchrist Email #1: gwgilc@wm.edu Department of Biology, Box 8795 Email #2: kitesci@cox.net College of William & Mary Phone: (757) 221-7751 Williamsburg, VA 23187-8795 Fax: (757) 221-6483 <http://gwgilc.people.wm.edu/>

WilliamMary ThermalTolerance 2

We seek to map genes on the X-chromosome of *Drosophila melanogaster* that are associated with high temperature thermotolerance and chill-coma recovery. The project involves fine-scale QTL mapping using SNPs and deletion/complementation techniques, artificial selection on and measurement of physiological performance (primarily knockdown temperature and chill-coma assays), and field collections in Australia and eastern North America to correlate the genetic patterns observed in the lab with patterns of genetic variation in nature.

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Applicants should forward a cover letter outlining their interests in evolutionary biology and in this position, a current CV, and contact information for three referees to:

George W. Gilchrist Department of Biology College of William & Mary Box 8795 Williamsburg, VA 23187-8795

Review of applications will begin immediately and will continue until the position is filled. For more information, please contact George Gilchrist at gwgilc@wm.edu or (757) 221-7751.

George W. Gilchrist Email #1: gwgilc@wm.edu Department of Biology, Box 8795 Email #2: kitesci@cox.net College of William & Mary Phone: (757) 221-7751 Williamsburg, VA 23187-8795 Fax: (757) 221-6483 <http://gwgilc.people.wm.edu/>

WorkshopsCourses

MBLWoodsHole MolEvol Aug6-13	53
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UReading MolSyst Mar23-Apr2	54
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MBLWoodsHole MolEvol Aug6-13

Workshop on Molecular Evolution

<http://workshop.molecularevolution.org/> Michael P. Cummings, Director

25 July - 6 August 2004 plus extended special topics

session 6 August - 13 August 2003

Application Deadline 1 March 2004

The Workshop on Molecular Evolution has been the finest course of its type in the world since it was started in 1988. The Workshop consists of a series of lectures, demonstrations and computer laboratories that cover various aspects of molecular evolution. A distinguishing feature of the Workshop is a well-equipped computer laboratory with Linux workstations and servers for comparative analysis of molecular data. Authors

and experts in the use of computer programs and packages such as Clustal W and Clustal X, FASTA, GCG, LAMARC, MrBayes, PAML, PAUP*, and PHYLIP provide demonstrations and consultations. This two-week program is designed for established investigators, postdoctoral fellows, and advanced graduate students with prior experience in molecular evolution and comparative genomics. Scientists with a strong interest in molecular evolution, systematics, and population genetics are encouraged to apply. Enrollment is limited to 60 students, and 15 students will be admitted to an extended topics session for the purpose of analyzing their research data sets. Many participants find the extended topics session to be especially useful.

Topics to be covered include:

* Databases and sequence matching: database searching: protein sequence versus protein structure; homology; mathematical, statistical, and theoretical aspects of sequence database searches * Phylogenetic analysis: theoretical, mathematical and statistical bases; sampling properties of sequence data; Bayesian analysis, hypothesis testing * Character analysis in a phylogenetic context: analysis of quantitative and discrete characters; hypothesis testing * Maximum likelihood theory and practice in phylogenetics and population genetics: coalescent theory; maximum likelihood estimation of population genetic parameters * Bayesian methods in phylogenetic analysis * Molecular evolution integrated at different levels: population biology; biogeography; ecology; systematics and conservation * Molecular evolution and development: gene duplication and divergence; gene family organization; coordinated expression in evolution * Comparative genomics: genome content; genome structure; genome evolution * Transposable elements: types; history; evolutionary dynamics; as a major component of genomes

Preliminary List of Faculty -

Peter Beerli Michael Cummings Scott Edwards
Jonathan Eisen Joseph Felsenstein Claire Fraser Mary
Kuhner Paul Lewis Axel Meyer Michael Miyamoto
William Pearson David Rand Margaret Riley David
Swofford Steven Thompson Paul Turner Daniel Voytas
Ziheng Yang Anne Yoder Shozo Yokoyama

Partial funding support for the Workshop comes from the National Science Foundation (NSF), National Aeronautics and Space Administration (NASA).

Fee: \$1500 (room and board at no additional charge), plus an additional \$750 for the extended topics session.

Application Form at <http://www.mbl.edu/education/-admissions/applications/> – Michael P. Cummings
Center for Bioinformatics and Computational Biol-

ogy University of Maryland Agri/LFSc Surge Building #296 College Park, MD 20742-3360 USA
mike@umiacs.umd.edu 301.405.9903 voice 301.314.1341
facsimile <http://serine.umiacs.umd.edu/>

NCStateU StatGenet Spring2004

NC State University will offer two online three-credit-hour graduate-level courses in statistical genetics in the Spring of 2004. Registration is now open at <http://distance.ncsu.edu> for

ST 610 D: Genetic Data Analysis, taught by Bruce Weir
ST 610 F: Statistical Analysis of Pedigree Data, taught by Elizabeth Thompson.

For ST 610 D, participants will receive powerpoint presentations with audio tracks with material from the forthcoming “Genetic Data Analysis III,” Weir (2004).

For ST 610 F, participants will receive a CD with the lectures (text and audio) and references to “Statistical Inference from Genetic Data on Pedigrees,” Thompson (2000).

Bruce Weir Phone: (919) 515-3574

Bioinformatics Research Center Fax: (919) 515-7315
NC State University email: weir@stat.ncsu.edu Raleigh
NC 27695-7566 URL: <http://statgen.ncsu.edu>

UReading MolSyst Mar23-Apr2

The Centre for Plant Diversity and Systematics at The University of Reading is offering an Intensive Course in Molecular Systematics for the sixth time. The 10 day course will be held on 23th March - 2nd April 2004

The course offers:

in-depth coverage of methods in molecular systematics and comparative sequence analysis

the treatment of theoretical issues in formal lectures alongside hands-on experience in practical workshops

More details from <http://www.plantsci.rdg.ac.uk/-molecularcourse.htm> or directly from Mrs Grace Barter, Molecular Systematics Intensive Course, Plant Sciences Laboratories, University of Reading, Reading

RG6 6AS. email: molecular.systematics@reading.ac.uk

Dr. Julie A. Hawkins, Centre for Plant Diversity and Systematics, School of Plant Sciences, The University of Reading, Reading, RG6 6AS. UK.

tel: +44 (0)118 378 6546 fax: +44 (0)118 378 8160

Julie Hawkins <j.a.hawkins@reading.ac.uk>

Valencia AsexualReproduction Apr16-18

The workshop 'Origin and Spread of Asexuals' will be held 16-18 April 2004 in Valencia (Spain). The workshop is organized in the frame of PARThenogenesis NetwoRk (PARTNER; <http://www.nioo.knaw.nl/-NETWORKS/PARTNER>), a network funded by the European Science Foundation. We address to young scientists starting an independent research career, post-docs and advanced graduate students for inviting them to attend the workshop.

The workshop is aimed to study the origin of asexual reproduction from sexual ancestors and their maintenance and spread. The focus is on how molecular mechanisms, reproductive cytological mechanisms, life-history traits and population features may affect the origin and maintenance of asexuality. The workshop will stress the link between proximate and evolutionary causes of asexuality, using a comparative approach. As a related topic, the origin, advantages and maintenance

of partial asexuality (e.g., cyclical parthenogenesis) will be addressed. The following topics will be considered: (1) Becoming asexual; (2) Cytological mechanisms to produce asexual eggs and seeds; (3) Avoiding genomic problems and evolving in the absence of sex (mutational load, adaptativeness of asexuals to environmental novelties); (4) Partial asexuality: advantage and instability; (5) The fate of asexual taxa: dynamics aspects.

The workshop will consist of 12-14 talks given by senior scientists, followed by discussion sessions. The expected speakers are: Bengt Bengtsson, Charles King, Fabrice Vavre, Graham Bell, Hugh Loxdale, Isa Schoen, Jean Claude Simon, Matthew Meselson, Nico Michiels, Peter van Dijk, Santiago Elena, and Valerio Scali. Non-invited talks will not be accepted. However, 15-20 young scientists will be invited to attend the workshop and expected to contribute in the discussion sessions.

Applications should include a short CV and a brief description of his/her current research topic (less than 400 words). The selection will be performed on the base of research record and topic, and the scope of the European network.

The workshop organization will cover the accommodation costs in the facilities provided by the organization for the invited attendants, but cannot cover their travel expenses.

Applications, preferably through e-mail, should be submitted before February 15, 2004, to

Manuel Serra (Manuel.Serra@uv.es) Institute Cavanilles of Biodiversity and Evolutionary Biology University of Valencia A.O. 2085 E46071-Valencia (Spain)

Manuel Serra <Manuel.Serra@uv.es>

Instructions

Instructions: To be added to the EvoDir 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 EvoDir mailing list please send an email message to Golding@McMaster.CA. Note that

‘on vacation’, etc, style messages are automatically filtered and should not be transmitted to the list (I hope), but should you wish to avoid the e-mail’s your code can be temporarily changed to 000000.

To send messages to the EvolDir direct them to the email `evoldir@evol.biology.McMaster.CA`. Do not include encoded attachments and do not send it as Word files, as HTML files, as \LaTeX files, Excel files, etc. . . . plain old ASCII will work great and can be read by everyone. Add a subject header that contains one of the keywords “Conference, Grad, Job, Other:, Postdoc, Workshop” and then the message stands a better chance of being correctly parsed.

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. So 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 \LaTeX do not try to embed \LaTeX or \TeX in your message (or other formats) since my program will strip these from the message.