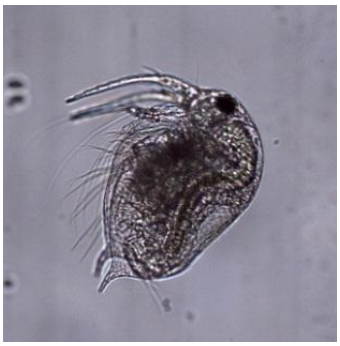

A 2-year post-doc position, with a possibility for a renewal for 2 years, at university of Helsinki: Evolutionary genomics and resurrection ecology

Reconstructing past responses of *Eubosmina maritima* to anthropogenic environmental changes using the historical archives of the Baltic Sea sediment

A powerful way to reconstruct past responses of populations to human-induced environmental changes is to use the information hidden in the sediment in the form of dormant eggs and subfossils. We investigate how and why the cladoceran community has changed in response to human-induced environmental change during the last century, using resurrection ecology, paleogenomics and paleolimnology.

The position is part of an Academy of Finland funded project for four years on resurrection ecology of cladocerans in the Baltic Sea. The aim is to detect signals of selection in *Eubosmina maritima* populations in sediment cores spanning the last century. Data is obtained from the historical archives of the sediments, which include dormant eggs that can be hatched and clonal lineages cultivated. Information on phenotypic changes across time is gained from the research of an additional post-doc and a graduate student, who are hatching eggs, performing reaction norm experiment on cultivated clones, and measuring subfossils.

Your role: You will be responsible for the genomic part of the project. This is carried out in collaboration with the research groups of prof Dieter Ebert at University of Basel and Dr Luisa Orsini at Birmingham University. You will be offered the possibility to visit labs working on the genomics of cladocerans and take part in courses to further develop your skills. At your dispense will be well-equipped molecular labs and the possibility of interacting with prominent researchers within the field of genetics/genomics at University of Helsinki (http://www.helsinki.fi/biosciences/index.htm), University of Basel (http://evolution.unibas.ch/ebert/), and University of Birmingham (http://www.birmingham.ac.uk/research/activity/biosystems-environmental-change/index.aspx). English is the working language. For general information on the University of Helsinki, please visit: http://www.helsinki.fi/university/index.html

Qualifications: You will have a PhD, and possible post-doctoral experience, within the field of evolutionary genetics/genomics or bioinformatics. Excellent written and oral communication skills in English are required, as are the ability to work efficiently, independently as well as in collaboration. You will supervise more junior group member as well as assistants.

Starting date: 1st of September 2014 or as agreed on.

To Apply: Consideration of applications will begin on 15th of June 2014, and will remain open until filled. Please send your application with (1) a statement of research interests and why you have applied for this position, (2) your CV and publication list, and (3) contact details of three references to Dr Ulrika Candolin at ulrika.candolin@helsinki.fi

Feel free to address informal inquiries to

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http://www.mv.helsinki.fi/home/ucandoli