

PhD-position (doktorandtjänst) in Evolutionary Genetics of Ageing.

Title: Genomic distribution of sex-specific variation in ageing.

A striking pattern across the animal kingdom is that males and females of the same species often have different lifespan and rate of aging. Genetic variability for these traits also exists both between as well as within the sexes. Several theories aimed to explain these patterns have been put forward, but one of particular interest suggests that these differences are the result of sexual selection. The aim of the current project is to study the genomic distribution of sex-specific genetic variation in lifespan and ageing, to provide a better understanding of why and to what extent the sexes differ with respect to these traits. The project will focus on a *Drosophila melanogaster* model system, and will be conducted using classical *Drosophila* genetics in combination with modern systems biology and genomic approaches.

We are looking for a highly motivated student having a Master's degree or equivalent in biology, genetics or a related field, and a strong interest in evolutionary biology/genetics. Documented interest in statistics and experience with programming in R as well as *Drosophila* lab work is beneficial but not a required. He/she should work well both as a member of a group as well as independently, and also be proficient in both written and spoken English. The successful candidate will join a research group led by Urban Friberg (see <http://www.egs.uu.se/evbiol/Persons/Urban.html>) and will receive her/his postgraduate training within the postgraduate school at the Evolutionary Biology Centre (see http://www.ebc.uu.se/index_eng.php). This position is financed for four full years by a postgraduate fellowship the first year (15.500 SEK/month) and a postgraduate position year 2-4 (22.000 - 24.500 SEK/month). Applications should be written in English and include i) personal information/background, ii) a description of research interests (max 1-2 pages), iii) complete CV, iv) a description of undergraduate training, v) the names and email addresses of 2-3 referees. Applications should be sent to Dr. Urban Friberg, Dept. of Evolutionary Biology, EBC, Norbyvägen 18D, Uppsala University, SE-752 36 Uppsala, Sweden. For more information please feel free to contact Urban Friberg by email (Urban.Friberg@ebc.uu.se) or by phone (+46-18-4716415). The position is open until filled, but **for full consideration apply by the 20th of November**. The ideal starting date would be January 2010.

The Program in Evolutionary Biology (<http://www.egs.uu.se/evbiol/index.html>) is situated in the Evolutionary Biology Centre in central Uppsala. The working atmosphere is international with English as working language. The Evolutionary Biology Centre constitutes an exciting arena for multidisciplinary research in evolutionary biology in a broad sense, with research programs including ecology, systematics, genetics, genomics, and developmental biology. Uppsala University is the oldest university in Scandinavia and the city of Uppsala is a vibrant student town with beautiful surroundings conveniently situated 40 minutes by train from Stockholm.

Note that there is another PhD position on a related topic available at EBC in the Department of Ecology and Evolution under supervision of Alexei Maklakov (see <http://www.iee.uu.se/zooekol/default.php?type=personalpage&id=87&lang=en>). This creates opportunities for discussions and collaborations between the research groups, which will be greatly encouraged!

Företag/institution: Department of Evolution, Genomics and Systematics, Evolutionary Biology

Plats: Uppsala, EBC

Projektstart: January 2010