

A two-year fully funded post-doctoral position is available in the Ellegren lab at the Evolutionary Biology Centre, Uppsala University. The Scandinavian wolf population is very well monitored population that has been focus for extensive genetic studies of, for example, genetic rescue effects, inbreeding depression, origin and immigration (Hedrick et al *Evolution* 55:1256-1260; Sundqvist et al *Mol Ecol* 10:1959-1966; Vila et al *Proc R Soc Lond B* 270:91-97; Flagstad et al *Mol Ecol* 12:869-880; Seddon et al *Proc R Soc Lond B* 271:2283-2291; Liberg et al. *Biol Lett* 1:17-20; Seddon et al *Mol Ecol* 14:503-511; Bensch et al *PLoS One* 1:e72; Seddon et al *Conserv Genet* 7:225-230; Vali et al *Mol Ecol* 17:3808-3817; Hagenblad et al *Mol Ecol* 18:1341-1351). The wolf was once widespread in Scandinavia, as well as in other parts of Europe, but long-term persecution led to its extinction by the 1960s. Two animals founded a new population in Sweden in the 1970s and a limited number of immigrants have subsequently become integrated with the population and it has grown to several hundreds of individuals. The population is highly inbred (inbreeding coefficient of newborns is currently 0.25 on average) and there are signs of inbreeding depression. We are now conducting whole-genome re-sequencing of 100 animals sampled from throughout the time period since the new population was founded. The post-doc will be responsible for analysing these data with the aims of investigating the rate of allelic loss, the extent and distribution of genomic regions identical-by-descent, the genomic contribution of each founder to the extant population, and to compare genetic relationships derived from the pedigree and genome sequence data. Several other research questions can apply as well. The project is a collaboration with Grimso Wildlife Research Station of the Swedish University of Agricultural Sciences. Start date is flexible, ideally before January 1, 2016. The position can be extended for up to two more years. For full consideration, please send application materials **by September 6, 2015**. Interested candidates should submit the following to

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- a cover letter stating research interests, - CV, including publication record - a short (1-2 page) description of research accomplishments, - email addresses and phone numbers of three references. Please feel free to contact me at the above email address with questions. The venue for this position, the Evolutionary Biology Centre, is situated in central Uppsala. The working atmosphere is international with the great majority of PhD students and post-docs recruited from abroad. The Centre constitutes an exciting arena for multidisciplinary research in evolutionary biology in a broad sense, housing some 300 scientists and graduate students. The scientific environment with numerous seminars, journal clubs and social activities offer excellent possibilities for contacts and collaborations. Local platforms for high-performance computational analyses (

<https://www.uppmax.uu.se/uppnex>

), NGS, SNP genotyping and proteomic analyses (

<http://www.scilifelab.se>

) ensure immediate access to state-of-the-art technology. Uppsala University is the oldest university in Scandinavia and the city of Uppsala is a vibrant student town with beautiful and easy accessible surroundings conveniently situated close to Stockholm. The Ellegren group is part of the Department of Evolutionary Biology (

<http://www.ieg.uu.se/evolutionary-biology/>

), which is a branch of the larger Department of Ecology and Genetics (

<http://www.ieg.uu.se/?languageld=3D1>

). The Department of Evolutionary Biology houses 8 independent research groups and about

25 PhD students, 25 postdocs, and several bioinformaticians. A common theme is that we address key questions in evolutionary biology, like speciation, local adaptation, life history evolution, genome and molecular evolution, using genomic approaches. We have tight connections with several other research groups in the Department of Ecology and Genetics within the Evolutionary Biology Centre. The project is a collaboration with Grimso Wildlife Research Station of the Swedish University of Agricultural Sciences. Suitable background to the position is a PhD geared toward evolutionary biology, population genetics, conservation biology or bioinformatics. Experience from bioinformatic analyses of next-generation sequencing data is of merit. Professor Hans Ellegren Department of Evolutionary Biology Evolutionary Biology Centre Uppsala University Norbyvägen 18D SE-752 36 Uppsala Sweden Email:

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