



## **POSTDOCTORAL RESEARCHER OR BIOINFORMATICIAN IN EVOLUTIONARY GENOMICS AND SPECIATION**

for a fixed term of 2 years starting from 1.3.2018, or as soon as the best applicant is available.

The group SpecAnt is a new Academy of Finland and Horizon2020 funded research group at the department of Biosciences and HiLIFE. Our team investigates the genomic and epigenetic basis of speciation using wood ants as a model system. Previously, we have discovered widespread hybridization between wood ant species in Southern Finland with unique consequences. Female hybrids are favoured by natural selection but male hybrids are selected against and die during development. Using large-scale genomic and transcriptomic data we have mapped candidate genomic regions and genes underlying reproductive isolation. Now our aim is to compare genomic regions underlying reproductive isolation over multiple hybridization events. The candidate will assemble reference genomes and investigate the patterns of divergence and population differentiation using newly acquired full genome and re-sequencing data. The project is executed in collaboration with Prof. Roger Butlin (University of Sheffield), Prof. Michel Chapuisat (University of Lausanne) and Dr. Heikki Helanterä (University of Helsinki). Collaborators offer opportunities for knowledge exchange and visits.

The candidate should have a Master's degree or PhD. The successful candidate should be self-motivated and responsible with excellent team working, problem solving, and analytical skills. Previous experience in analysing data from high-throughput sequencing and working in Unix/Linux environment is required. A background in population genetic data analysis or speciation genetics is a plus.

For a bioinformatician, without PhD qualifications, the starting salary will be 2200 - 2500 euros/month, depending on the appointee's qualifications and experience. For a post doc the starting salary will be 3 100 euros/month, depending on the appointee's qualifications and experience. A four-month trial period will be applied.

To apply, please submit your application by 15.1.2018 using the University of Helsinki electronic recruitment system by clicking on Apply for job. Internal applicants (i.e., current employees of the University of Helsinki) must submit their applications through the SAP HR portal.

Upload a single pdf-file containing a one-page letter with a personal statement outlining your research interests and relevant work experience, your CV (including publication list), as well as contact information for 2 references.

For additional information, please contact Dr. Jonna Kulmuni by email: [jonna.kulmuni\(at\)helsinki.fi](mailto:jonna.kulmuni(at)helsinki.fi).  
For further information about the research group see <https://jonnakulmuni.wordpress.com/>

Technical support with the recruitment system: [recruitment\(at\)helsinki.fi](mailto:recruitment(at)helsinki.fi)

Apply at latest 15.1.2018

**References:**

Beresford J, Elias M, Pluckrose L, Sundström L, Butlin R, Pamilo P, Kulmuni J. (2017) Widespread hybridization within mound-building wood ants in Southern Finland results in cytonuclear mismatches and potential for sex-specific hybrid breakdown. *Molecular Ecology*. 15:4013-4026.

Kulmuni J & Pamilo, P. (2014) Introgression in hybrid ants is favored in females but selected against in males. *Proc Natl Acad Sci USA*. doi: 10.1073/pnas.1323045111.

Kulmuni J, Seifert B & Pamilo, P. (2010) Segregation distortion causes large-scale differences between male and female genomes in hybrid ants. *Proc Natl Acad Sci USA*. 107(16): 7371-7376.

Apply at latest 15.01.2018

**Apply link**

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**Due date**

Monday, January 15, 2018