



Swiss Institute of
Bioinformatics

Computational and Molecular Population Genetics Lab



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UNIVERSITÄT
BERN

Institute of Ecology and Evolution
Division of Population Genetics



Berne, 3 May 2016

Postdoc position: Modelling and quantification of mutation load in human populations

A 2 years+ post-doc position is available from July 1st 2016 at the University of Berne to model and quantify mutation load in human populations. It has been shown that mutation load should increase in populations having gone through spatial expansions, and human populations actually show a gradient of mutation load along expansion axes out of Africa (<http://www.pnas.org/content/113/4/E440.abstract>). The successful candidate will develop models of genomic evolution to find signals of mutation load in genomic data and study how load is purged after the end of an expansion. The post-doc will also study how expansion load might interfere with adaptations to new environments. Finally, available human whole genome sequences will be used to quantify mutation load in populations having a history of range expansions and study how these signatures are spread and have evolved over the genome.

We are looking for a highly motivated candidate to join our very international lab. The ideal candidate will have a strong background in statistical or population genetics and proven abilities to work independently and in team. Previous experience in C++ and R or another high-level programming language is a plus.

The successful candidate is expected to be involved in light teaching and administrative duties. Gross salary is in the range of 80K CHF per year and follows the Swiss NSF scale. The CMPG lab offers a very stimulating research environment with access to high performance computation facilities and close connections with the Swiss Institute of Bioinformatics. Berne is ideally located in the middle of Switzerland and Europe, and provides rich cultural and outdoor activities.

Please send **before May 31st 2016**, an application letter, CV and contact information of two references to laurent.excoffier@iee.unibe.ch. Further information can be requested at the same email address.

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