



As part of a maternity leave replacement, a 4-month **postdoc position in evolutionary genomics** is available at the Weber Lab, Department of Aquatic Ecology, Eawag, Switzerland.

The Weber Lab focuses on adaptation and conservation genomics of freshwater invertebrates (<https://www.eawag.ch/en/department/eco/main-focus/adaptation-conservation-genomics/>).

Genomic and epigenomic data are available for analysis in two different projects:

**1) Epigenomics of pollution in natural populations**

Whole-genome (MethylSeq) sequencing data of populations from polluted and unpolluted localities are available for two widespread invasive species: the Asian clam (*Corbicula fluminea*) and the Zebra mussel (*Deissena polymorpha*). The aim of this project is to compare the methylomes of populations from different habitats and different species from the same habitat to uncover epigenetic signatures of adaptation to pollution.

**2) Sex determination in invasive mussels**

Whole-genome sequencing data of males and females are available for two emblematic invasive species of freshwater mussels: the Zebra mussel (*Dreissena polymorpha*) and the Quagga mussel (*Dreissena rostriformis*). The aim of this project is to uncover if there is a genetic sex determination system in these species and to describe it (chromosome; extent of differentiation; sex locus candidate).

The postdoc can work on either project, depending on interests and experience.

We are looking for an independent, motivated, recently graduated postdoc (ideally less than 3 years) with a PhD in evolutionary biology, genomics, bioinformatics or related field. Experience with the UNIX environment and scripting (R and/or python) is essential. Good communication skills (written and spoken English) are expected. Knowledge of German is not required. The Weber Lab promotes diversity, equity and inclusion. Hence, we particularly welcome applications from underrepresented groups in science.

This is a fixed-term employment from the 1<sup>st</sup> of August until 30<sup>th</sup> of November 2022. Remote work is negotiable after a few weeks at the office.

Applications should include: i) a cover letter detailing your scientific background, interests and fit for the position (including which project you wish to work on), ii) a detailed CV highlighting up to 3 publications (with a short description of your contribution and general importance of the work), iii) copies of your academic qualifications and iv) contact details of three references who can provide a recommendation letter upon request.

Application screening will start immediately, and will remain open until the position is filled.

To apply, please send a single PDF document with all above-mentioned information to [Alexandra.weber@eawag.ch](mailto:Alexandra.weber@eawag.ch).

Informal inquiries can also be sent to [Alexandra.weber@eawag.ch](mailto:Alexandra.weber@eawag.ch).

We look forward to receiving your application.