Eawag, the Swiss Federal Institute of Aquatic Science and Technology, is an internationally networked aquatic research institute within the ETH Domain (Swiss Federal Institutes of Technology). Eawag conducts research, education and expert consulting to achieve the dual goals of meeting direct human needs for water and maintaining the function and integrity of aquatic ecosystems.

The Department of Environmental Toxicology (Utox) invites applications for a

Postdoctoral Position in Molecular Community Ecotoxicology

The position is part of our research on aquatic biofilms. Phototrophic biofilms (i.e. periphyton) play a fundamental role in stream functioning. Microorganisms forming biofilms are targets for chemicals, which can lead to the alterations of their intra- and interspecific interactions. Yet, most of the available ecotoxicological data are descriptive thus far, focusing on integrative endpoints that basically consider the community as a black box. In order to comprehend and in the future be able to predict impacts of chemicals on periphyton communities, there is a need to identify by which molecular mechanisms chemicals impact the microorganisms within the community and how the community responds.

The postdoctoral researcher will be involved in investigating cellular processes in periphyton at the transcriptome level (i.e. regulation of gene expression), upon exposure to model herbicides, and whether such responses can be linked to community functional and structural alterations. This will allow identifying toxicity and adaptive pathways that are activated to maintain homeostasis and resistance to toxic stress and linking a molecular initiating event to an outcome on functions of the community.

The period of appointment for the Postdoctoral researcher is 24 months, and earliest starting date is June 2019.

We are looking for a postdoctoral scientist holding a PhD with a solid background in molecular biology and experience in transcriptomics and bioinformatics. The successful candidate is expected to take initiative for the planning and execution of the experiments, and to thrive in interdisciplinary research. Familiarity with microbial communities and/or phototrophic organisms would be a valuable asset.

Eawag offers a unique research and working environment and is committed to promoting equal opportunities for women and men and to support the compatibility of family and work. Applications from women are especially welcome. For more information about Eawag and our work conditions please consult www.eawag.ch and www.eawag.ch/en/aboutus/working/employment.

Closing date is 14 April 2019. Your application should include a CV with a list of publications, a motivation letter, copies of academic qualifications and the names and contact information of three references.

For further information, please contact Dr. Ahmed Tlili, Email: Ahmed.Tlili@eawag.ch

We look forward to receiving your application. Please send it through this webpage, any other way of applying will not be considered. A click on the link below will take you directly to the application form.

https://apply.refline.ch/673277/0692/pub/1/index.html