

**The group of Aquatic Ecology at ETH Zürich / Eawag
has an open Ph. D. Position**

to study epidemiological, ecological and molecular drivers of co-evolutionary dynamics between hosts and parasites. The study system is the New Zealand freshwater snail *Potamopyrgus antipodarum* and its trematode parasite *Microphallus* sp. The goal of the project is to understand how spatial variation in host infection risk (“hot” and “cold” spots of infection) contributes to parasite adaptation and host response. The work includes field work in New Zealand and laboratory infection experiments. Subsequent SNP genotyping of the parasite and host individuals allows for population genetic studies on parasite genetic structure and tracking of evolutionary change in the host population.

Working independently as well as part of our team are necessary qualifications for an ideal candidate. You would need to work under sometimes harsh field conditions, cope with long-term maintenance of experiments and lab cultures and ideally you have some molecular genetics lab experience. You also need excellent communication (writing, presentating) and data analysis skills. Working language is English.

General information about the research group can be found at <http://www.ae.ethz.ch/>.

Candidates must qualify for admission to the Ph.D. programme of ETH (<https://www.ethz.ch/en/doctorate.html>). The duration of the position is three years, starting not earlier than September 2016. Salary is according to ETH-scale starting from 47 kCHF/year.

Suitable qualified persons are invited to apply by email. Please attach a single PDF file including a letter of motivation, C.V. and names plus addresses of two references. Subject line should read “PHD-Position 2016”. Email address to use is jukka.jokela@env.ethz.ch.

Evaluation of applications starts May 2016, and continues until the position is filled.