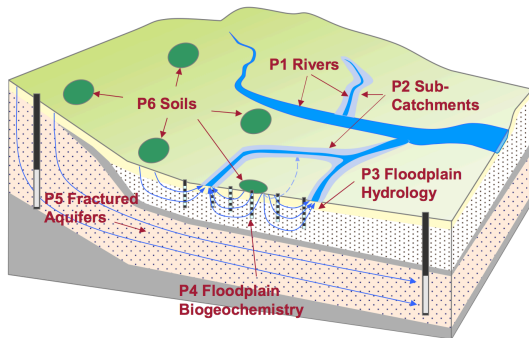




Postdoc Project in Environmental Omics / Molecular Microbial Ecology

The Microbial Molecular Ecology Research Group at the University of Tübingen is looking for a Postdoc (Molecular Ecologist, Environmental Microbiologist).

“Metabolic pathways and microbial activities of pollutant turnover in the environment”



Environmental pollution by anthropogenic organic and inorganic compounds is a growing global concern. Within the **Collaborative Research Centre (CRC 1253) “CAMPOS - Catchment as Reactors: Metabolism of Pollutants on the Catchment Scale”**, supported by the Deutsche Forschungsgemeinschaft, microbial pollutant turnover will be examined by applying molecular-biological assays (e.g. DNA-

and RNA-based qPCR), metagenomics, metatranscriptomics, and metaproteomics (omics) to field samples of relevant CAMPOS landscape elements: rivers, sub-catchments, floodplains, aquifers, and soils.

This project will focus on the assessment of microbial pathways of pollutant (e.g. nitrate, pesticides) turnover in contrasting CAMPOS landscape elements using molecular-biological and omics tools. In particular, metagenomics will be used to identify the metabolic potential of the microbial community. Metatranscriptomics and metaproteomics will be employed to identify expressed genes and proteins. In addition, qPCR will be used to quantify functional gene and transcript abundances that reflect microbial activities. Comparative studies will reveal hot spots of active microbial pollutant turnover in the field.

We are offering a position in an interdisciplinary, international, and dynamic team of molecular ecologists, microbiologists, geochemists and geoscientists. The ideal candidate should have a solid background in environmental microbiology or microbial ecology with experience in primer design and validation, application of omics techniques, and analyses of omics data sets. The employment (TVL E13, 100%, 3 years) will be arranged by the administration of the University of Tübingen. The starting date is August/September 1st 2017 or as soon as possible thereafter. Disabled persons will be preferred in case of equal qualification.

Applications including CV, motivation letter (incl. statement of interest for this position), transcripts, overview of techniques and methods used in the past, and contact address of two referees should be send by email before June 11th 2017 to:

Dr. Sara Kleindienst, Email: sara.kleindienst@uni-tuebingen.de

More information can be found on the websites:

- <http://www.geo.uni-tuebingen.de/arbeitsgruppen/angewandte-geowissenschaften/forschungsbereich/geomikrobiologie/members/sara-kleindienst.html>
- <http://www.geo.uni-tuebingen.de/forschung/campos.html>