

ETH Zurich Postdoc Position

The **ETH Laboratory of Toxicology**, led by Professor Shana Sturla, is part of the ETH Department of Health Science & Technology and the Institute for Food, Nutrition and Health. We are a multidisciplinary team bridging chemistry and biology to define relationships between chemical structures, biomolecular processes, and resulting cellular responses relevant to chemical and drug development and safety.

Job description

A postdoctoral opportunity is available with a focus on human gut microbial metabolomics. The research will involve the development and application of targeted and non-targeted LC-ESI-MS/MS for quantitative bioanalysis of small molecules in complex biological matrices. You will advance research concerning risk assessment of chemicals that are transformed by gut bacteria. Depending on your interests and skills, linking metabolomics with bioinformatics or machine learning approaches may be relevant. There is also the opportunity to collaborate in diverse aspects of research in the lab concerning environmental toxicants related to human disease, DNA damage and mutagenesis, and precision medicine.

The initial contract is for 1 year, starting between 1 September 2022-1 January 2023 or a mutually agreed upon date. It is expected to be extended at least one additional year, and could be extended to a maximum of 6 years in case of additional funding acquisition.

Your profile

- You love mass spectrometry.
- Before starting, you will obtain a PhD or equivalent in chemistry, toxicology, pharmaceutical sciences, systems biology, or a related discipline, which optimally should have involved LC-MS-based analysis.
- You have clear written and oral communication skills in English.
- You have an independent mindset, good leadership qualities, high flexibility and like to work in an international and team-oriented environment.

ETH Zürich

ETH Zurich is one of the world's leading universities specializing in science and technology. It is renowned for excellent education, cutting-edge fundamental research and direct transfer of new knowledge into society. Over 30,000 people from more than 120 countries find our university to be a place that promotes independent thinking and an environment that inspires excellence. Located in the heart of Europe, yet forging connections all over the world, we work together to develop solutions for the global challenges of today and tomorrow.

Interested?

Please contact us by email to Prof. Shana Sturla (sturlas@ethz.ch) and Dr. Georg Aichinger (georg.aichinger@hest.ethz.ch) with:

- a cover letter that describes research experience and scientific and professional/career goals
- CV including publication list
- contact information for 3 referees. Do not include letters of recommendation.