

**Post-doctoral position (2 years) in the development of multi-omics approach by MS and chemometrics
Institute of Analytical Sciences – ANABIO-MS team**

A two-year postdoctoral position is available in our team at the Institute of Analytical Sciences (CNRS UMR 5280, Univ. Claude Bernard Lyon 1). Our work focuses on the development of mass spectrometry based approaches for multi-omics analyses (proteomics, lipidomics, metabolomics) applied to aquatic species in an ecotoxicology context (ANR fundings : <https://anr.fr/Projet-ANR-18-CE34-0008>, <https://anr.fr/Projet-ANR-18-CE34-0013>). The successful candidate will develop MS methods for multi-omics on HRMS and targeted MS (QTRAP instrument) (see for references Fu *et al. iScience*, 2021 ; Faugere, Gouveia *et al.*, J Proteomics 2020 ; Faugere, Brunet *et al*, Talanta 2022). The candidate will develop methods with Scout-Triggered MRM method (stMRM), a novel acquisition mode on QTRAP instrument, jointly developed with Sciex (Rougemont *et al* , 2016) and explore the potential of electron-activated-dissociation on high-resolution MS for small molecule characterization and identification (Baba T., et al., J. Lipid Res, 2016-2018). The research project is in close collaboration with the Ecotox team headed by Dr. Arnaud Chaumot (INRAE, UR RiverLy, <https://www6.lyon-grenoble.inrae.fr/riverly-ecotox/>).

We are looking for a highly motivated candidate with a Ph.D in analytical chemistry, biochemistry or a related discipline, with sufficient specialist knowledge in mass spectrometry of small molecules and/or proteins. Computational skills and statistical analysis are highly requested. Strong written and oral communication skills in English are mandatory. Ability to work both independently and in a collaborative group environment are required.

Application : To apply, please send an e-mail to sophie.ayciriex@univ-lyon1.fr with the following subject "SENS postdoc application", and a single pdf file including: CV (including graduation date, PhD defense and the list of publication and communications in congress), research interest and experience (1 page max.), a cover letter, and the name and contact information of 2 references.

Funding : This position is funded by the SENS research funding of the University Claude Bernard Lyon 1. Salary is based on research experience after PhD. **The contract will start as soon as possible between end of october 2022 and january 2023.**

Location : Institute of Analytical Sciences – ANABIO-MS team - 5 rue de la doua – 69100 Villeurbanne

Contact : sophie.ayciriex@univ-lyon1.fr