Post Reference: P.1.C

Data Processing and Harmonization in Metabolomics

About MetaboHUB

MetaboHUB (MTH) is the national French metabolomics and fluxomics infrastructure. Launched in 2013, MTH is a leading international infrastructure **serving** more than 700 scientists worldwide. MetaboHUB gathers 6 **regional facilities** including more than **80 permanent staffs, 16 NMRs, 68 MS, robotic and computational platforms**. MTH aims at pushing forward the field to develop metabolomics, lipidomics and fluxomics from single cell to population. **Your contribution will serve a broad range of researchers** in the fields of biotechnologies, Human health, nutrition and plant science. **Joining MTH, you will be involved in cutting edge research within a highly skilled and motivated consortium.**

About MTH-MetaToul

https://mth-metatoul.com/

MetaToul, launched in 2007, is a multi-institutional academic platform uniting INRAE, CNRS, INSERM, INSA, the University of Toulouse, and Toulouse Hospitals. ISC- and IBiSA-labeled, and recognized by INRAE as a national strategic platform, MetaToul brings together about **50 staff members** with expertise in biochemistry, chemistry, bioinformatics, biostatistics, automation, mass spectrometry, NMR, and chromatography. These complementary skills support the **study of metabolism** through **metabolomics, lipidomics, and fluxomics** workflows.

The mission

The MetaboHUB consortium is currently **developing a reference material** (SRM) **to improve** the temporal and geographic **intercomparison of metabolomics and lipidomics datasets**. This material is being characterized within the consortium using a variety of targeted and non-targeted analytical tools in NMR and mass spectrometry.

The person hired will be **responsible of coordinating the technical implementation of a data processing and treatment strategy** for the analysis of this SRM. The role will focus on two main areas:

- **Characterization of the SRM**: processing data from the various sites using harmonized workflows, to compare quantitative and non-targeted data, interpret results and disseminate/publish them.
- **Use of the SRM within the consortium**: harmonize tools across the various MetaboHUB sites to monitor the SRM analysis over time, visualize signal drift and perform data correction when necessary.

Key Responsabilities

The person recruited will be responsible for

- **Performing the technical implementation** of a data processing and treatment strategy for comparing metabolomic and lipidomic datasets obtained on SRM through NMR and mass spectrometry
- **Propose harmonized workflows** for correcting results using SRM and train MetaboHUB partners in the use of these tools
- **Coordinate this project** within the consortium

Profile

Academic
• PhD in metabolomics with experience in data processing and analysis
• Knowledge in statistics
• Experience in project management

Skills

- Good communication and writing skills
- Autonomy, organisation
- Motivation to work within a multidisciplinary environment (chemists, statisticians, bioinformaticians, biologists)
- English mandatory

Informations

- CDD – Research Engineer
- 12 months contract
- Salary range (gross salary): 2815-3190 euros/month depending on experience
- Place of work: Toulouse, France
- Starting from: 2027 January 1st

How to apply ?

The application should contain the following attachments:
• a motivation letter reasoning your interest for a specific research project described on our webpage (max. one page)
• a full CV (max. two pages) including contact details of two references,
• Copies of relevant diplomas or university certificates

Contacts

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More information

www.metabohub.fr