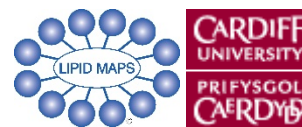


Lipid MAPS Career Opportunity



Mass Spectrometry Data Curator

Cardiff University
Division of Infection and Immunity
School of Medicine
College of Biomedical and Life Sciences

Location: Cardiff, Wales, UK

Summary

We are seeking an individual with a background in analytical chemistry/biochemistry or related discipline, and experience in the interpretation and analysis of novel mass spectrometry-based datasets. You will independently procure, review and curate lipid structures and associated mass spectral data from existing sources and user submitted datasets into databases for publishing on an internationally recognized lipidomics web resource. You will work independently as well as within a team on the implementation of software solutions for processing, searching, display and analysis of data and lipid structures.

This role will work within a multidisciplinary team that includes scientists and informaticians.

This post is a full time (35 hours per week), is available immediately and is fixed term until 26th July 2020.

For more info or to apply contact: info@lipidmaps.org

JOB DESCRIPTION

Job Purpose

Curating and uploading data to an online repository from multiple online sources, industry and private users and developing and supporting the efforts of a team of programmers/curators as part of the international database project, LIPID MAPS (<http://www.lipidmaps.org/>).

Duties and Responsibilities

Key Duties

- Curation, review, and auditing of molecular structures and Mass Spectrometry (MS) data relating to lipidomics experiments. Curated databases will have international impact and will be made accessible via the LIPID MAPS portal (<http://www.lipidmaps.org/>).
- Support software development within an international, multi-centre team, through working with programmers to suggest and test solutions.
- Ensure that the project milestones are met, proactively changing delivery according to user requirements
- Establish working relationships with key contacts, developing appropriate communication links within the University and internationally recognised researchers within the field of lipidomics and other high-profile, international databases
- Advise on informatics needs, suggesting projects for informaticians to develop as needed through working closely with a project coordinator and other programmers
- Engage in cross-training within the team and provide a secondary support buffer for other team roles, where appropriate
- Provide professional advice and guidance on the LIPID MAPS resource and database processes and procedures to internal and external customers that will have institute wide impacts, using judgement and creativity to suggest the most appropriate course of action where appropriate, and ensuring complex and conceptual issues are understood
- Take responsibility for resolving issues independently along with the team of programmers/curators in

the LIPID MAPS group where they fall within set role objectives

- Investigate and analyse specific issues within LIPID MAPS, creating recommendation reports, supported by advances within the lipidomics research field
- Ensure that the provision of LIPID MAPS objectives is delivered to the institution, proactively changing the delivery according to customer requirements
- Create specific working groups from colleagues across the University to achieve School of Medicine and Division of Infection and Immunity objectives, if needed
- Develop and deliver training within LIPID MAPS and lipidomics in general
- Instruct and guide others within the LIPID MAPS team and other employees across the University within the field of lipidomics and in relation to the LIPID MAPS resource

General Duties

- Ensure that an understanding of the importance of confidentiality is applied when undertaking all duties
- Abide by University policies on Health and Safety and Equality and Diversity
- Perform other duties occasionally which are not included above, but which will be consistent with the role

PERSON SPECIFICATION

Essential Criteria

Qualifications and Education

1. BSc, MSc or PhD Degree in a computational, physical or life science /NVQ, or relevant experience. Knowledge, Skills and Experience

2. Substantial background in at least one of the following areas:

- mass spectrometry,
- analytical chemistry,
- lipid biology or chemistry,
- cheminformatics,
- bioinformatics
- an associated discipline

3. Practical knowledge of small-molecule concepts including structure representation, chirality, molecular classification, nomenclature.

4. Proven experience in developing new processes and procedures

Customer Service, Communication and Team Working

5. Ability to communicate and translate conceptually detailed and complex information effectively and professionally with a wide range of people

6. Evidence of ability to explore customers' needs

7. Proven ability to develop networks in order to contribute to long term developments

Planning, Analysis and Problem solving

8. Evidence of ability to solve expansive problems using initiative and creativity; identify and propose both practical and innovative solutions

9. Evidence of demonstrable knowledge of key advances within relevant software field

10. Evidence of ability to undertake and deliver specific projects where others are involved

Desirable Criteria

1. An understanding of lipid biology
2. An understanding of basic programming in one or more of the following languages: Python, PHP, Perl.
3. An understanding of SQL
4. Proficiency in Unix