

Postdoctoral Researcher in Metabolomics of Pulmonary Medicine

Karolinska Institutet, Department of Medical Biochemistry and Biophysics, Chemistry II

Area of responsibilities/description of the work:

We have an opening for an individual wishing to join a multidisciplinary team aiming to understand mechanisms in asthma, COPD and other respiratory diseases. The successful candidate will be expected to use and further develop LC-MS-based methods for both non-targeted and targeted metabolomics. The primary focus of the position is to perform metabolomics analyses for the molecular sub-phenotyping of obstructive lung disease in multiple large cohort studies. In particular, we aim to examine the relationship between the onset of asthma and early-life environmental exposure in an exposome approach. This work will be performed in birth cohorts designed to correlate antenatal and postnatal exposure with disease etiology. The acquired metabolomics data will be integrated into an overall “handprint” of ‘omics data including lipidomics, proteomics and transcriptomics in combination with epigenetics to identify distinct molecular signatures of disease sub-phenotypes, with a focus on identifying populations that are sensitive to environmental exposure. Accordingly, the selected candidate will have significant opportunity to interact with other analytical groups and bioinformatics efforts from multiple laboratories internationally.

The successful applicant will belong to the Integrative Molecular Phenotyping laboratory (<http://metabolomics.se>) in the Department of Medical Biochemistry and Biophysics. The Department has a strong and internationally recognized research tradition in the physiology and pathobiology of bioactive lipids, including awarding of the Noble Prize for the discovery of eicosanoids. The research environment includes working with state-of-the-art equipment, including multiple mass spectrometers. This project is funded by the Swedish Heart-Lung Foundation. This full-time position is temporary (two years), with potential for renewal for at least 2 more years.

Qualifications

We are looking for highly motivated candidates with a Ph.D. in mass spectrometry or bioanalytical chemistry and experience in small molecule mass spectrometry as well as biological sample preparation techniques. Candidates should have demonstrated experience in LC-MS based metabolomics. We are especially interested in candidates with prior experience working with large clinical studies. In addition, the applicant must have significant and demonstrable experience in dealing with data acquisition, analysis protocols and associated software. Experience with computer programming (e.g., R, Matlab) and multivariate statistics (e.g., SIMCA) would be highly advantageous. Excellent communication skills and an ability to interact socially and scientifically with other post docs and students in the laboratory and with collaborators in various networks are essential. Previous post doc experience and a strong publication record are strong merits.

Start date:

Funding is available immediately, and the ideal candidate would be able to start as soon as possible. This position is initially available for 24 months, with potential renewal for at least an additional 24 months based upon mutual agreement.

Application process:

Applications including research experience, CV and at least two references should be submitted through the Varbi recruitment system.

Further Information:

For additional details of the department and research interests:

<http://www.metabolomics.se/>

<http://www.mbb.ki.se>

<http://ki.se/en/startpage>

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Pursuant to the regulations of the Swedish National Archives, applications are kept on file for two years after the appointment has gained legal force. The regulations do not apply to attachments that have been printed or otherwise published.

Karolinska Institutet strives to provide a workplace that has approximately the same number of women and men, is free of discrimination and offers equal opportunity to everyone.

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Type of employment	Temporary position longer than 6 months
Contract type	Full time
First day of employment	Upon agreement
Salary	Monthly
Number of positions	1
Working hours	100%
City	Stockholm
County	Stockholms län
Country	Sweden
Reference number	2-454/2018
Contact	Craig Wheelock +46 8-524 876 30
Union representative	Anne Edgren, OFR/S, P, O 08-616 16 29 Biborka Bereczky Veress, SACO 46 70-173 85 75 , biborka.bveress@ki.se Henry Wölling, SEKO henry.wolling@ki.se
Published	2018-01-23
Last application date	2018-03-31
Link to ad	http://ki.mynetworkglobal.com/what:job/jobID:189725/