



Postdoctoral position: Proteomics and RNA modifications

Job Description

An exciting opportunity for a Postdoctoral Fellow is available within the *RNA and Stem Cell Biology* group of Dr. Cristian Bellodi at the Division of Molecular Hematology of the Lund Stem Cell Center, Lund University, Sweden.

Our laboratory focuses new post-transcriptional facets of gene expression control in stem and cancer cell at a molecular, cellular and organismal level. We recently uncovered a critical role of RNA modifications in governing protein synthesis and stem cell function (Guzzi et al., *Cell* 2018). Building from these findings, we have initiated new research lines aimed at studying the molecular basis orchestrating the transcriptome of normal and malignant hematopoietic cells. The applicant will use mass spectrometry-based quantitative proteomics methods to analyze defined cell populations isolated from novel genetic models and patient-derived cells available in our laboratory. Candidate should be interested in the clinical application of basic science research toward understanding the mechanisms underlying hematological diseases associated with stem cell dysfunction.

Specific aims

- Develop specific research project(s) under guidance from Group Leader
- Apply established proteomics protocols and develop new methods
- Contribute to the production of research papers for publication
- Present findings at internal and international meetings
- Foster collaborations within the lab and LU BioMS core
- Guide and share knowledge with junior group members
- Acquire academic independence

About us

Our team consists of a highly interactive group of internationally recruited postdocs, PhD students and technicians that are interested in post-transcriptional gene regulation in stem and cancer cells. We are members of the Division of Molecular Hematology composed of 12 research groups with a common focus on hematopoiesis and stem cell research. Our lab is embedded

within the Lund Stem Cell Center, an internationally ranked research center within the strategic areas of Stem Cell Biology and Regenerative Medicine, which is part of Lund University, Scandinavia's largest institution for education and research.

Essential Skills and Requirements

We are looking for highly talented and motivated candidates with a recent PhD (less than 3 years) and proof of productive research. Applicants are expected to work independently as well as part of a research team. A strong knowledge of mass spectrometry and advanced quantitative proteomics with an immunology background is required. Hands-on experience in mass spectrometry is an advantage and practical experience with quantitative proteomics methods such as SILAC, pSILAC, dimethyl labeling, TMT and BioID is preferred. Excellent verbal and written English communication skills are required.

To Apply

Applications including (1) cover letter, (2) curriculum vitae, and (3) contact information of three professional references should be emailed to: cristian.bellodi@med.lu.se.

For more information visit:

https://www.med.lu.se/molecular_hematology/investigator_profiles/cristian_bellodi