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2021-02-18 Ref No: V 2021/104

Announcement Post doc scholarship

Faculty of Medicine

Department of Laboratory Medicine, Lund

Announcement: Post doc scholarship in Developmental hematopoiesis and leukemia

An exciting opportunity for a Postdoctoral Fellow is available immediately in the *Developmental Hematopoiesis and Leukemia group* of Dr. Charlotta Böiers at the Division of Molecular Hematology of the Lund Stem Cell Center, Lund University, Sweden. The Lund Stem Cell Center is a strategic center of excellence in life science, with a strong international position in the area of blood stem cell biology. We are seeking a highly motivated and ambitious postdoctoral fellow with a strong background in stem cells and molecular hematopoiesis to join our team.

Background

Acute Lymphoblastic Leukemia (ALL) is one of the most common cancers in children. While this type of malignancy is found in both children and adults, childhood ALL differs from the disease in adults with higher incidence, better prognosis but also a specific mutational spectrum. These facts suggest differences in the underlying biology and in the initiation of the disease between adults and children. Many of the initiating mutations in childhood ALL have been shown to occur already during fetal life. The targeted cells form a pre-leukemic clone, pre-disposed to develop leukemia when encountering additional mutations. The main focus of the lab is to understand how the leukemia starts: the origin of the pre-leukemic clone and the molecular pathways which regulate the initiation of the disease. In vitro differentiation of human pluripotent stem cells can recapitulate developmental B lymphopoiesis. We use human pluripotent stem cells that harbour fusion mutation with MLL (mixed lineage leukemia), to model the initiating events of the disease.

The postdoctoral fellow is expected to play a critical role to elucidate the initiating steps in the progression of childhood leukemia. As a model, human pluripotent stem cells expressing MLL fusion will be used to study the initial effect the mutation has on blood differentiation and the molecular changes induced. Genomic engineering, in vitro cultures and molecular single cell omics as well as flow cytometry will be important techniques. Ultimately, understanding the underlying events in the pre-leukemic disease may eventually lead to new therapeutic approaches.

As postdoctoral fellow in the lab, you will be a critical part of an interactive research team and you will have access to state-of-the-art techniques and the infrastructure provided by the Lund Stem Cell Center.

We offer the opportunity to do cutting-edge research and be part of a stimulating scientific community within a world-renowned blood and stem cell research environment that fosters collaboration, innovative thinking and career development.

Qualifications required

Candidates are expected to have a strong background in molecular hematopoiesis and genome engineering. Experience of work with human pluripotent stem cells are desirable but not essential. Knowledge in flow cytometry and cell biology, especially hematopoiesis, and bioinformatics is an advantage.

Candidates must be highly motivated to pursue postdoctoral studies within an interactive research team. Abilities to work independently as well as part of a team are essential. Excellent verbal and written communication skills in English are required for consideration.

The applicant should not have been employed by Lund University within the last two years in order to be able to receive a scholarship. PhD degree should not be more than three years old at the last day of applying.

Placement: Dr. Charlotta Böiers' lab, Division of Molecular Hematology, Lund Stem Cell Center, Lund University, Sweden

Ref No: V 2021/104

Duration: 2 years

Starting time: 2021-05-01, or according to agreement

Last day for applying: 2021-04-01

For further information please contact:

Charlotta Böiers: MD, PhD

charlotta.boiers@med.lu.se

Other

Lund University encourages both men and women to apply for the position.

Information regarding post doc scholarships at Lund University

- The scholarship amounts to 25 000 SEK/month and is normally paid three months in advance.
- The scholarship is intended for the recipient's own education and does not constitute compensation for work carried out for the University.
- The scholarship is a grant and therefore not subjected to tax deduction.

- The scholarship does not entitle the recipient to compensation in case of illness.
- The scholarship does not constitute a pensionable income.
- The scholarship does not entitle the recipient to vacation.
- The scholarship does not include financial compensation for parental leave.
- The scholarship does not entitle the recipient to allowance during travels in the line of duty.
- The scholarship awarded is to be reviewed by the head of department every six months and the supervisor is to inform the head of department before each review of any significant circumstances.
- Scholarships set up by Lund University for any individual may not run for a period of more than 24 months.
- The scholarship follows the regulations established by the Vice-Chancellor of Lund University (June 27th 2013; Reg. No PE 2013/356).

Application

Application stating the reference number **V 2021/104** and containing a CV including list of publications and names and contact information of at least two reference persons, a personal letter, proof of dissertation and other relevant documents should be addressed to: charlotta.boiers@med.lu.se.

Last day of application is 2021-04-01