Announcement of post-doc scholarship at the Department of Clinical Sciences, division of Pediatrics

Human pluripotent stem cells to study neuroblastoma

The purpose of this stipend is for the candidate to deepen their skills in the field of molecular physiology. The candidate will acquire theoretical knowledge within the areas of embryonic developmental, human pluripotent stem cells and childhood cancer biology. The candidate will learn a set of new methodologies, including culturing of human pluripotent stem cells, virus work, PCR and embryo implantations. In addition, the candidate will learn to handle several different research organisms, including chick embryos and mouse models.

Neuroblastoma is the most common cancer in infants and accounts for ~15% of all childhood cancer related deaths. We use chick embryos as a proxy for the embryonic environment during which neuroblastoma develops. In this project, we will utilize human induced pluripotent stem cells to create a model of human progenitor cell development in an embryonic setting. Our aim is to gain mechanistic and genetic insight into the initiating events of childhood cancer.

Reference number: V 2021/996

Scholarship period: The scholarship covers a period of 6 months with possibility of prolongation up to a maximum of 12 months in total.

Preliminary start date: 2021-09-01

Supervisor/contact person:
Sofie Mohlin
070–4647998
sofie.mohlin@med.lu.se
https://www.tcr.lu.se/research-groups/molecular-physiology

Qualifications:

- To be eligible for a post-doc scholarship at Lund University the recipient must hold a PhD degree within a relevant field. The PhD degree must not be from Lund University. The PhD degree must not be older than three years. The
applicant must not have been employed at Lund University in the past two years.

Requirements
- Obtained PhD within cancer research, developmental biology or equivalent.
- Published papers in peer-reviewed journals
- Fluent in written and spoken English

The following qualifications are advantageous but not required:
- Experience in statistics
- Experience in analyzing omics data (RNAseq, mass spectrometry etc.)
- Experience of in vivo models (e.g., chick embryo, mice, rats, zebrafish)
- Experience of immunohistochemistry
- Experience in wet lab techniques
- Imaging experience

The applicant will be part of a team with common goals but at the same time needs to be independent enough to lead projects. The candidate should be fluent in English and have experience from oral and written scientific communication.

Great emphasis will be placed on personal suitability.

Written application, including reference number, is to be sent via e-mail to the supervisor and must include the following:
- CV
- Personal letter stating the reasons why the study suits the applicant (maximum one page)
- List of publications
- References (2)
- PhD diploma

Application deadline: 2021-04-15

Information regarding scholarships at Lund University
- The scholarship sum is paid out quarterly
- A scholarship awarded will be reviewed every six months
- Scholarships are tax-exempt
- Scholarships do not give rise to sickness benefits, compensation from the Social Insurance Office or retirement pension.
- A scholarship holder cannot be hired after the scholarship period due to tax reasons.
- The scholarship follows the regulations established by the Vice-Chancellor of Lund University (October 1st 2020; Reg. No STYR 2020/1283).