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

The importance of HIF-2α for progenitor cell migration and its connection to tumor initiation

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 developmental and tumor biology as well as learn a set of new methodologies, e.g., microdissections, cell culture, cloning and virus work, PCR, western blot and analyzing bioinformatic data. In addition, the candidate will learn to handle several different research organisms, including chick embryos, mouse embryos and in vivo mouse models.

We have recently shown that the cancer-associated protein HIF-2α is important during trunk neural crest stem cell development (Niklasson et al., *Dev Dyn* 2020). In this project, we are interested in investigating how HIF-2α affects early and late neural crest cell migration, population of forming organs and how this connects to childhood tumor initiation.

Reference number: V 2021/24

Scholarship period: The scholarship covers a period of 6 months with possibility of prolongation up to a maximum of 24 months in total.

Preliminary start date: 1 March 2021 (to be discussed)

Supervisor/contact person:
Sofie Mohlin
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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.
- 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:
- Experience in analyzing omics data (RNAseq, mass spectrometry etc.)
- Experience of *in vivo* models (e.g., chick embryo, mice, rats, zebrafish)
- 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: 8 February 2021

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).