



2021-09-03 Dnr: V 2021/2483

LUNDS
UNIVERSITET

Medicinska fakulteten

*Institutionen för experimentell medicinsk
vetenskap*

Lund University is one of Europe's leading universities. Here, history and tradition lay the ground for the study and research environments of tomorrow. We offer education and research within engineering, science, law, social sciences, economics and management, humanities, theology, fine art, music and theatre. Through interaction with business and the community we ensure that knowledge and innovations benefit society. The University has 47 000 students and 7 200 staff from all over the world, based mainly in Lund, Malmö and Helsingborg. We work with 680 partner universities in more than 50 countries.

Lund University invites applications for the following position:

Post-doctoral scholarship in neural stem cells

Placement: Department of Experimental Medical Science

Ref No: V 2021/2483

Duration: 6 months. The scholarship can be drawn for a total of two years.

Starting time: 220101

Last day for applying: 210919

Description:

As a Postdoc in the Falk research group, you are responsible for designing, performing, producing data, analyzing and reporting scientific projects (in writing and orally), in collaboration with the research group leader and members of the group. Your duties mainly include molecular studies of iPS cell (induced pluripotent stem cells) derived cellular model of the human brain from both healthy individual and patient in monolayers and in 3D organoids. You will be responsible for running projects aimed at understanding the mechanisms that govern neural stem cell differentiation towards neurons or glial cells and what fails in case of disease. You will use cell and molecular biology methods such as cloning, CRISPR editing, RT-PCR, immunostaining and microscopy, Western blot and flow cytometry. Analysis of single cell and bulk RNA sequencing data. Other existing tasks may also be relevant, such as involvement in other projects in the research group, administration, conference travel, presentations of research and supervision of students. As a postdoc with a focus on studies of cellular models of human brain development, you will run projects in basic research in collaboration with clinics that meet patients.

Qualifications

- Documented experience of human iPS cells, neuronal differentiation and organoids at PhD and postdoctoral level
- Ability to plan and use molecular methods such as cloning, CRISPR, Western blot, RT-PCR, flow cytometry, immunostaining and microscopy.
- Documented experience of bioinformatics analysis of RNA sequencing data (both bulk and single cell)
- Good ability to function well in collaborative projects both within the group and with other research groups as well as with other disciplines
- Documented good ability to present research in English orally and in writing
- Experience in histology and microscopy
- Good ability to supervise students
- Experience of functional studies of neurons, such as calcium imaging, MEA or electro-physiology

It is of merit to have the experience of:

- Reprogramming of human cells
- Protein biology such as proteomics and immunoprecipitation
- Cellular assays of polarity, organization and structure
- Epigenetics
- Cancer
- Tissue engineering experience
- Interdisciplinary collaborations
- Administrative tasks
- Project management

Eligible candidates must have obtained their PhD within the last three years. Moreover, eligible candidates must not have held positions at Lund University within the last two years.

The application should contain:

Please submit your application with a cover letter (max 1 page), a short curriculum vitae and PhD Diploma.

Information:

Prof. Anna Falk
Tel: +46 46 222 05 40
E-mail: anna.falk@med.lu.se

Appointment procedure:

Applications with CV is to be sent to Prof Anna Falk e-mail: anna.falk@med.lu.se
Dnr V 2021/2483 shall be indicated on the application.

Information regarding post doc scholarships at Lund University

- The scholarship amounts are paid quarterly.
- The scholarship follows the regulations laid down by the University Vice-Chancellor (LS 2010/68, A13).
- The scholarship is intended for the holder's own education/professional development and does not constitute remuneration for work or other service that has been carried out or will be carried out on behalf of the University.
- The scholarship does not give any entitlement to sickness benefit, parental allowance, holiday pay or pension.
- The host faculty/department and the scholarship holder shall draw up in writing an agreed plan for the studies/development.
- The Scholarship holder is to be informed about the length of the stay, assured social conditions, and continual review of the scholarship holder's development.
- The Scholarship holder is to be informed about insurance covering the scholarship holder and the need to check his/her own insurance requirements.
- The scholarship holder is to be treated equally to students/researchers in the same situation but with different sources of funding.
- The scholarship holder is to be assured and to contribute to a good working environment.
- The Scholarship holder is to be informed about the risk of possible retrospective taxation in Sweden in cases where the scholarships are administered and paid out by LU and the scholarship holder gains employment at LU shortly after the period of the scholarship.
- There may be a risk of the scholarship holder being taxed in his/her home country; the scholarship holder should investigate this before the period of the scholarship.