



LUND
UNIVERSITY

Department of clinical sciences, Lund

Division of Neurology,

University Hospital of Lund

Postdoctoral fellowship in human cellular models of neurodevelopmental and neurodegenerative lysosomal storage disorders

Lund University

Located just across the bridge from Copenhagen airport, Lund University is Scandinavia's largest institution for education and research and consistently ranks among the world's top 100 universities. The Lund Stem Cell Center is a strong international research center with a focus on stem cell and developmental biology primarily of the central nervous system, lung, bone, pancreas and blood system, development of stem cell and cell replacement therapies in these organ systems. Lund Stem Cell Center offers regular seminars in the fields of developmental biology, neurobiology, hematopoiesis and cancer stem cells. Several facilities are available in this research environment that will be fundamental for the development of this project, including a human ES/iPS core, a flow cytometry and cell sorting platform, a single-cell genomics facility, a CRISPR/Cas9 core, an imaging facility and an electrophysiology unit.

Lab

One postdoctoral fellowship is available immediately in the Neurodevelopment and Neurodegeneration group. Our aims are to develop in vitro cellular and brain organoid models of human lysosomal storage disorders with neurological affection. With these models, we will investigate molecular and cellular disease mechanisms in different cell types, identify new therapeutic targets and develop potential therapies to treat patients suffering from these devastating disorders.

Candidate profile

The fellowship is for two years with possibility for extension. We are looking for a highly motivated candidate with good teamwork skills who wants to be part of building a strong research group. Candidates with a solid background in molecular and cellular biology are encouraged to apply. The ideal candidate should have experience working with stem cells, reprogramming and neural differentiation, molecular biology, genome editing, immunochemistry and viral vector-based transgene expression. Previous experience on brain organoids and calcium imaging recordings and analysis are meriting.

Applications

Interested candidates should have obtained their PhDs no earlier than 3 years before the position starts. To apply, send a letter of motivation together with a CV, a list of publications and the contacts of three references to Isaac Canals (isaac.canals@med.lu.se).

Starting date

Position is to be started from January 2021.