



THE SAHLGRENKA ACADEMY
INSTITUTE OF NEUROSCIENCE AND PHYSIOLOGY

Department of physiology
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Announcement - scholarship at undergraduate/advanced level

The Department of Physiology, Institute of Neuroscience and Physiology, hereby announces a vacant scholarship at undergraduate/advanced level in neuroscience/metabolism.

Training plan

The pharmacotherapy for overweight and obesity has been revolutionized by the use of long-acting GLP-1R agonists, such as semaglutide (the active component of Ozempic and Wegovy). Semaglutide acts on the brain to lower food intake and body weight, but the neural substrates underlying these beneficial effects remain unclear. The overall aim of this research project is to define the neural populations and circuits involved in mediating the body weight-lowering effect of semaglutide.

Transgenic mouse models combined with viral vector delivery into brain structures will be employed for Cre-dependent ablation and chemo- and optogenetic characterization of specific populations and neuronal projections engaged by semaglutide. Viral vector expression, neuronal activation and neurochemical phenotype of semaglutide-engaged neuronal populations will be investigated using multiplex immunofluorescence and in situ hybridization.

The student will learn how to cut and process mouse brain sections for immunofluorescence and mRNA detection (RNAscope). The student will get training in epifluorescent and confocal imaging, as well as in analyzing the emanating data. The student will also perform DNA preparations and PCR for genotyping of our transgenic mice. The student will be invited to participate in our recurrent workshops and lab meetings and will receive training in the analysis and presentation of research data.

This training position comes with a stipend that does not represent a salary, and the activities performed are not regarded as work.

Period

2025-04-22 to 2025-09-22

Financing

Two payments of 32 500 SEK. A total of 65 000 SEK for the whole period.

If you require any further information, please contact Linda Engström Ruud, linda.engstrom.ruud@gu.se, supervisor.

Application

To apply please fill out the form “Scholarship application” and send it to Linda Engström Ruud, linda.engstrom.ruud@gu.se, supervisor.

Please attach a copy of:

CV

Letter of motivation

Closing date is 2025-03-28.