



THE SAHLGRENKA ACADEMY
INSTITUTE OF NEUROSCIENCE AND PHYSIOLOGY

Department of physiology
Administrator: Amilia Bliding
Telephone No: 031-7863878
E-mail address: amilia.bliding@gu.se

Announcement - scholarship at undergraduate/advanced level

The Department of Physiology, Institute of Neuroscience and Physiology, hereby announces a 1-year scholarship at undergraduate/advanced level in Immunometabolism, specifically in the studies of diabetes-associated fibrosis.

Training plan

Diabetes-associated fibrosis involves excessive extracellular matrix buildup in vital organs, leading to dysfunction and complications such as kidney disease and heart failure. Current treatments for these conditions aim to manage risk factors (e.g. obesity, diabetes and hypertension), but therapies that specifically target fibrosis are lacking.

The scholarship holder will characterize the effect of weight-cycling on cardiac and renal fibrosis in mice and participate in clinical/translational adipose tissue studies. In brief, lean, obese and weight-cycling mice will be compared with respect to adipose tissue, kidney and heart functionality as assessed by e.g. histological analyses, flow cytometry, scRNAseq, Western blot, qPCR etc. During the time course of this project, the scholarship holder will also assist in the collection of adipose tissue biopsies from the clinical study AMIGROS ([NCT06065930](https://clinicaltrials.gov/ct2/show/study/NCT06065930)). For example, adipose tissue will be digested for flow cytometry analysis of the stromal vascular fraction and lipolysis assay for the adipocyte fraction.

Month 1-3, the scholarship holder will receive laboratory animal science (rodents) training, get introduction to our tissue culture facility, and assist in a variety of adipose tissue analyses to learn above-mentioned methodology.

Month 4-12, the scholarship holder will continue receiving training but will also run experiments independently with the goal to generate results for publication and/or presentation at an international conference.

Expected learning outcomes include increased theoretical and practical knowledge related to experimental and translational immunometabolic research as well as data presentation. This training position comes with a stipend, which does not represent a salary, and the activities performed are not regarded as work.

Period

One-year, starting date upon agreement.

Financing

4 payments of 39000 SEK. A total of 156000 SEK for the whole period. 20000 SEK will be provided for travel.

If you require any further information, please contact Ingrid Wernstedt Asterholm, IWA@neuro.gu.se, supervisor.

Application

To apply please fill out the form “Scholarship application” and send it to Ingrid Wernstedt Asterholm, IWA@neuro.gu.se, supervisor.

Please attach a copy of:

CV

Letter of motivation

Closing date is 2026-03-24.