



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 vacant scholarship at undergraduate/advanced level in circulatory physiology.

Training plan

Subject

Cardiovascular Physiology, especially atherosclerosis

Background

Atherosclerosis is a chronic inflammatory disease in which lipids accumulate in the vessel wall, and where the immune system plays a crucial role in disease development. *CHRFAM7A* is a human-specific gene that has been suggested to modulate inflammatory signaling pathways, but its role in atherosclerosis is not known. An increased understanding of how inflammation is regulated in atherosclerosis is therefore of great importance for the development of new therapeutic strategies.

Purpose

The aim of this project is to investigate how the gene *CHRFAM7A* influences inflammation and the development of atherosclerosis

Method

In this project, a transgenic mouse model overexpressing *CHRFAM7A* will be used to study its effect on the development of atherosclerosis. The project involve sectioning of the aortic root for subsequent analysis of atherosclerosis. The extent of atherosclerosis will be assessed using lipid staining with Oil Red O, which enables visualization of lipid deposits in the vessel wall.

Time plan

The project is expected to be carried out over a period of approximately 8 weeks.

Learning outcome

In this project the student will learn how to section frozen tissue, stain and evaluate histological parameters, as well as evaluate the results. Furthermore, the student will learn how to present and interpret their data. This training position comes with a stipend, that does not represent a salary and the activities performed are not regarded as work.

Period

A total of 8 weeks during the timeperiod 2026-07-07 to 2026-08-30. Exact weeks will be determined with the supervisor.

Financing

1 payments of 26 000 SEK. A total of 26 000 SEK for the whole period

If you require any further information, please contact *Maria Johansson*, maria.e.johansson@neuro.gu.se, supervisor.

Application

To apply please fill out the form “Scholarship application” and send it to *Maria Johansson*, maria.e.johansson@neuro.gu.se, supervisor.

Please attach a copy of:

CV

Letter of motivation

Closing date is 2026-07-09.