



THE SAHLGRENKA ACADEMY
INSTITUTE OF MEDICINE

Department of Molecular and Clinical Medicine
Administrator: Carolina Mattsson
Telephone No: 031-786 54 13
E-mail address: carolina.mattsson@gu.se

Announcement - scholarship at undergraduate/advanced level

The Department of Molecular and Clinical Medicine, Institute of Medicine, hereby announces a vacant scholarship at undergraduate/advanced level in molecular genetics of liver disease.

Training plan

Subject

To identify target to treat MASLD

Background

Metabolic dysfunction-associated steatotic liver disease (MASLD) is a growing epidemic becoming the first cause of chronic liver disease and transplantation Worldwide. Despite the efforts, there is still no effective drug treatment for this disease making the search for potential therapeutic targets a priority in this area.

Purpose

The overall aim of this project is to exploit human genetic to identify target to treat MASLD. This aim will be achieved by molecular genetic studies.

Method

The student will approach human molecular genetics by using translational techniques ranging from *in vitro* protein overexpression in human cells both in 2D and 3D, to protein production, purification, and characterization. Additionally, the student will exploit the human genetic to perform association studies, and system biology to provide the basis for personalized medicine in MASLD.

Time plan

The project will cover 12 months with the first 6 months dedicated to learning basic techniques and the second part dedicated to designing and implementing experiments based on the acquired competences. Interpretation of results will be encouraged during the entire project.

Learning outcome

By the end of the project, the student will learn the basic techniques of molecular biology including *in vitro* culturing of immortalized human cells both in 2D and in 3D; staining and microscopy imaging; techniques of gene and protein expression including quantitative real time PCR and western blot.

Period

2025-01-01 to 2025-12-31

Financing

2 payments of 72,000 SEK. A total of 144,000 SEK for the whole period.

If you require any further information, please contact Stefano Romeo, Stefano.romeo@wlab.gu.se, supervisor.

Application

To apply please fill out the form “Scholarship application” and send it to Stefano Romeo, Stefano.romeo@wlab.gu.se, supervisor.

To be eligible for a scholarship you must be a registered student at undergraduate or advanced level at the University of Gothenburg, other Swedish university or an international university.

Please attach a copy of your registration certificate with your application. The certificate must demonstrate that you are a registered student throughout the scholarship period.

Closing date is 2024-12-02.