



**THE SAHLGRENKA ACADEMY**  
**INSTITUTE OF NEUROSCIENCE AND PHYSIOLOGY**

Department of Physiology  
Administrator: Tilda Ulfsdotter  
Telephone No: 031-786 3521  
E-mail address: tilda.ulfsdotter@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 Gastroenterology I.

### **Training Plan**

Subject: Gastroenterology

Background: During recent years the role of goblet cells (GC) in regulation of intestinal immunity has obtained increased attention via the discovery that GCs sample luminal antigens and deliver them to the immune system. However, how these interactions develop during early life is not known.

Purpose: In this project we will evaluate GC – immune cell interactions during early life in mice using mice that express RFP in the cytoplasm.

Method: We will explore GC immune cell interactions during early life by staining tissue sections for immune cells markers and explore interactions using confocal microscopy. Additional methods include cryo-sectioning of tissue specimens, immunohistochemistry and confocal imaging. Additional methods include genotyping of mice using PCR and gel-electrophoresis.

Time plan: The first week will be dedicated to training the student in the respective methods and data analysis. During the remaining time the student is expected to work independently.

Learning outcome: Following completion of the project the student will have obtained practical and theoretical training in gastroenterology with a focus on goblet cell biology. The practical experience includes PCR, gel-electrophoresis, cryo-sectioning, immunohistochemistry and fluorescence microscopy. The theoretical aspects focus on goblet cell biology and goblet cell immune cell interactions. This training position comes with a stipend, that does not represent a salary and the activities performed are not regarded as work.

### **Period**

2026-06-08 – 26-06-28

### **Financing**

1 payments of 10.000 SEK. A total of 10.000 SEK for the whole period

If you require any further information, please contact Jenny Gustafsson,  
jenny.gustafsson@gu.se, supervisor.

**Application**

To apply please fill out the form “Scholarship application” and send it to Jenny Gustafsson,  
jenny.gustafsson@gu.se, supervisor.

Please attach a copy of:

CV

Letter of motivation

Closing date is 2026-06-14.