



**THE SAHLGRENKA ACADEMY  
INSTITUTE OF MEDICINE**

Department of Rheumatology and inflammation  
research

Administrator: Louise Winslow

Telephone No:031-786 6583

E-mail address: [louise.winslow@gu.se](mailto:louise.winslow@gu.se)

## **Announcement - scholarship at undergraduate/advanced level**

The Department of Rheumatology and inflammation research, Institute of Medicine, hereby announces a vacant scholarship at undergraduate/advanced level in Decoding CD38 in Blood Cancers through Global Data Mining.

### **Training plan**

**Subject:** Decoding CD38 in blood cancers through global data mining

**Background:** This project focuses on understanding the role of CD38 in blood cancers, a critical area of research in oncology. CD38, a multifunctional enzyme, plays a significant role in cell signaling and regulation, making it a potential target for therapeutic interventions. Blood cancers, such as leukemia, lymphoma, and myeloma, present unique challenges due to their complexity and variability. This project aims to leverage global data mining to uncover new insights into CD38's role in these cancers.

**Purpose:** The primary objective of this training project is to equip students with the skills and knowledge to conduct advanced data mining and analysis in the field of oncology. By focusing on CD38 in blood cancers, students will engage in a real-world problem, applying bioinformatics tools and data analysis techniques to contribute to the understanding of these diseases.

**Method:** The project will utilize a combination of theoretical learning and practical application. Students will be trained in bioinformatics, data mining techniques, and statistical analysis. They will learn to navigate and analyze large datasets from global public databases, focusing on gene expression, molecular pathways, and patient data related to blood cancers.

**Time plan:** Months 1-3: Introduction to bioinformatics, data mining techniques, and overview of blood cancers.  
Months 4-6: Hands-on training with data mining tools and initial data collection.  
Months 7-9: In-depth data analysis, focusing on CD38 related pathways and gene expression.  
Months 10-12: Compilation of findings, report writing, and preparation for presentation of results.

**Learning outcome:** By the end of this training project, students will have developed

1. Proficiency in bioinformatics and data mining techniques.
2. A deep understanding of the molecular mechanisms of blood cancers, particularly the role of CD38.
3. Skills in analyzing large-scale datasets and translating findings into coherent insights.

4. The ability to communicate complex scientific data effectively.
5. A foundation for future research work or advanced studies in the field of oncology.

**Period**

2024-05-01 to 2025-04-30

**Financing**

4 payments of 45000 SEK. A total of 180000 SEK for the whole period.

If you require any further information, please contact Alessandro Camponeschi, [alessandro.camponeschi@rheuma.gu.se](mailto:alessandro.camponeschi@rheuma.gu.se), supervisor.

**Application**

To apply please fill out the form "Scholarship application" and send it to Alessandro Camponeschi [alessandro.camponeschi@rheuma.gu.se](mailto:alessandro.camponeschi@rheuma.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 with which the University of Gothenburg has a collaboration agreement.

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 2024-02-29.