



## **The Department of Laboratory Medicine, Division of Molecular Hematology, Systems Immunology Lab hereby announces an Education Scholarship**

Lund University was founded in 1666 and repeatedly ranks among the world's top 100 universities. The University has 46,000 students and more than 8,000 staff based in Lund, Helsingborg and Malmö. We are united in our efforts to understand, explain and improve our world and the human condition. Lund University welcomes applicants from diverse backgrounds and experiences. Gender equality and equal opportunities and diversity are fundamental principles in all parts of the University's activities.

Lund University's Faculty of Medicine hereby welcomes applications for a scholarship established for education:

**Reference number:** V 2024/849

**Placement:** Department of Laboratory Medicine, Division of Molecular Hematology, Systems Immunology Lab

**Duration:** 6 months

**Preliminary start date:** 18 June 2024

**Application deadline:** 19 May 2024

**Contact person/supervisor:** Camila Consiglio, 0734786722,  
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### **Investigating mechanisms of sex differences in human immunity**

The aim of this scholarship is to train the trainee in experimental and computational methods of systems immunology. The experimental training is focused on CRISPR experiments and CUT&RUN sequencing. The computational training regards scRNA and scATACseq data analysis. The trainee will be embedded in a Systems Immunology Lab, and focus on investigating how biological sex regulates human immunity. Sex hormone signaling via sex hormone receptors mediates its key functions in

reproductive tissues. Though we observe that testosterone and estradiol have important consequences to human antiviral immunity and inflammation, it is still unclear how these sex hormones regulate human immune cell function. The scholarship holder will be trained to investigate how sex hormones regulate immune cells using CRISPR, CUT&RUN sequencing and scRNA/ATACseq experimental and computational methods.

**Qualifications/abilities required:**

- Student at a higher education institution.
- Computational biology expertise (scRNAseq analysis, working with HPC and containers)
- Previous experience researching sex differences in immunity

**Written application including reference number is sent by email to the contact person and is to contain:**

- CV
- Covering letter, explaining why the nature of the studies suits the applicant
- References
- Documents that show that the student has been admitted to first or second-cycle studies (e.g. LADOK certificate of registration or the equivalent)

**Information about receiving a scholarship from Lund University**

- The scholarship follows Lund University regulations STYR 2020/1283.
- Scholarships are intended for the recipient's own education and do not represent remuneration for work carried out on the University's behalf.
- The department and the recipient are to formulate, in writing, an agreed study plan for the recipient's development.
- The education scholarship is paid monthly.
- Approved scholarships are reassessed every six months. Scholarship recipients are to complete their education/career development and satisfy attendance requirements in accordance with their course plan/study plan/professional development plan. In the event of misconduct, or if the recipient is not deemed able to complete their education/career development due to illness or on other grounds, scholarship funds that have been granted but not yet paid may be withdrawn.
- The scholarship is a gift and is therefore not taxed. It is possible that the recipient may be taxed in their home country – something the recipient should investigate beforehand.

- Scholarships do not entitle the recipient to sick pay, parental leave, holiday pay or pensions.
- The recipient is not entitled to subsistence allowance for travel.
- The recipient is protected by insurance coverage but must check their own insurance requirements.
- Scholarships to a single individual at Lund University may not exceed a total of 24 months.
- The recipient is to be treated equally with other students in the same situation regardless of financing while being assured of and contributing to a good work environment.