



## SAHLGRENKA AKADEMIN INSTITUTIONEN FÖR BIOMEDICIN

### Utlysning

**Project Title:** Identifying molecular mechanisms underlying clonal hematopoiesis

**Project duration and dates:** 1 year (2026-01-01 – 2026-12-31)

**Application deadline:** 5<sup>th</sup> December

**Amount:** 20,000SEK / per month

### Project summary:

Clonal hematopoiesis (CH) is the expansion of blood cells from a single lineage of hematopoietic stem or progenitor cell (HSPC). The prevalence of CH is common in the elderly population and is associated with increased risk of blood cancer, cardiovascular disease, and mortality. Several genes mutated in CH have been identified; however, the mechanisms by which the mutated cells gain clonal dominance and lead to CH are not yet fully understood.

The aim of this project is to characterize the molecular mechanisms underlying human CH. The project involves the analysis of human-derived samples, library preparation for next generation sequencing, and single cell analysis of blood cells. We are seeking a motivated student to participate in various parts of the project, including the processing of primary cells, flow cytometry staining, DNA extraction, and library preparation for next generation sequencing.

### Applicant:

A suitable candidate will have an educational background in molecular biology or biotechnology, or a related subject area. Students who are closer to the end or who recently completed their Masters Degree are encouraged to apply. The candidate will work in an international and interdisciplinary research team. The selected candidate will have excellent communication and collaboration skills. Prior experience of working in a research laboratory is an advantage. Basic understanding of hematopoietic system, and/or systems biology is a plus.

### Application:

Applications should be emailed to Abhishek Niroula ([abhishek.niroula@gu.se](mailto:abhishek.niroula@gu.se)). The application should include; Motivation letter, CV including contact info.