

# Master's thesis project

## at Stem Cell Center in Lund University, Sweden

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**Lund Stem Cell Center** at Lund University is a world-leading center for stem cell research with the mission of transferring basic science findings to the clinic in order to improve human health. Working at the Stem Cell Center also gives you the opportunity to interact with excellent scientists working in diverse stem cell fields.

**We are looking for a master's student interested to do their thesis project on ubiquitin-proteasomal pathways in leukemia.**

### Project duration

From 6 to 12 months (1 or 2 semesters), Starting time: Fall of 2024 or Spring of 2025.

### Topic

Uncovering the critical regulators of the ubiquitin-proteasomal system in leukemia.

### Project description

The aim of this project is to identify novel regulators of the ubiquitin-proteasomal pathway in leukemia. The thesis work would focus on identification of genes that are essential for the optimal functioning of the ubiquitin-proteasomal system in leukemic cells. Identified gene candidates will be studied further in the context of determining sensitivity of protein degrader drugs which are currently emerging as attractive therapies for leukemia.

### Requirements for candidate

- Experience in vector cloning or cell culturing
- Experience in standard molecular assays (western blot, RT-qPCR and others)

### The project includes,

- Gene knockout using CRISPR
- FACS assays
- Gene expression and genome accessibility assays
- Assays related to ubiquitin-proteasome system
- Possibility to work with primary human leukemia cells.

Supervisor: Agatheeswaran Subramaniam, PhD

More information about the PI and our work:

- <https://portal.research.lu.se/en/persons/agatheeswaran-subramaniam>
- <https://www.stemcellcenter.lu.se/article/decoding-inner-workings-blood-stem-cell-boosting-molecule>

Please send your CV and a short motivational letter before **September 10, 2024**.

to [agatheeswaran.subramaniam@med.lu.se](mailto:agatheeswaran.subramaniam@med.lu.se), with topic "Master thesis project".

You can also contact Agathees for any questions or more information on the position.