

Master thesis project:

Investigating SAMD9/9L activity in cellular defense and growth control

Background:

SAMD9 and SAMD9L are evolutionary-conserved, interferon-stimulated genes, broadly expressed in human tissues. Variants in SAMD9/9L can potentially disrupt protein translation and affect cell proliferation and have been associated to predisposition to myeloid malignancies. SAMD9/9L have also been implicated in immune responses to viral pathogens, but the molecular mechanisms involved in their activity are still unclear.

Project description and aims:

In this project, we will use molecular and cell biology techniques to investigate the role of SAMD9/9L proteins in stress responses and address the following questions:

- What are the molecular mechanisms involved in SAMD9/9L activation and regulation?
- How are SAMD9/9L activation and regulation affected when mutant variants are expressed?

Desired skills:

Proficiency in English is essential and experience in cell culture or molecular cell biology techniques is advantageous for the position.

Duration:

The position is expected to last 6 to 12 months, starting in autumn 2024. The exact start date can be agreed upon based on the candidate's availability.

Location:

The research work will be conducted at Dept of Medicine, Karolinska Institute – Stockholm (see *contacts below*).

Contacts information:

Interested candidates should submit a complete CV and a motivation letter to:

Elisa Saccon (elisa.sacson@ki.se)

Postdoctoral Researcher – [Bryceson Lab](#)

Center for Hematology and Regenerative Medicine (HERM)/Neo

Dept. of Medicine, Huddinge – Karolinska Institutet

For any questions regarding the position, do not hesitate to contact us!

We look forward to your application!