



SAHLGRENKA AKADEMIN INSTITUTIONEN FÖR BIOMEDICIN

Utlysning

Project Title: Investigating the function of AGO2 in the nucleus of Progeria cells

Project duration and dates: July 1, 2023 until July 31, 2023

Application deadline: June 1, 2023

Amount: 15,000 SEK

Project summary:

Argonaute 2 (AGO2) is found in the mammalian cell nuclei. But the function of nuclear AGO2 is not understood completely in disease. In this project the student will Aim 1) define the subcellular localization of AGO2 in human fibroblasts using biochemical fractionation.

Aim 2) Next, a plasmid containing OCT4, SOX2 and KLF4 (OSK plasmid) will be overexpressed in control vs progeria fibroblasts and evaluate if there is a change in AGO2 subcellular localization.

Aim 3) Lastly, the student will evaluate if the catalytic activity of AGO2 is different in cytoplasm vs nucleus by performing EMSA assay.

Applicant: The applicant should have previous knowledge in cell culture, western Blotting, bacteria transformation, RNA isolation and plasmid related work experience.

Application:

Applications should be emailed to aishe.sarshad@gu.se

The application should include; Motivation letter, CV including contact info.