GÖTEBORGS UNIVERSITET

SAHLGRENSKA AKADEMIN
INSTITUTIONEN FÖR BIOMEDICIN

Utlysning

Project Title: profile miRNAs at subcellular levels
Project duration and dates: September 1, 2024 – August 31, 2025
Application deadline: June 4, 2024
Amount: 20,000 SEK

Project summary: MicroRNAs (miRNAs) are small non-coding molecules that control gene expression. These highly conserved cell components bind to messenger RNA (mRNA) to control its expression in order to maintain a healthy development of cells. To do this, they need to assemble into the RNA-induced silencing complex, RISC. The RISC complex has been a target of many research studies throughout the years but in this lab, we study proteins and RNAs that bind to an important compound, the Argonaute (AGO) proteins. In humans, there has been identified the AGO2 protein as an important component of the RISC complex. AGO2 directly binds miRNAs, which in turn, guide the protein to specific mRNAs. Since AGO2 protein is so important and part of gene expression regulation by being capable of cleaving mRNA, in this study, the aim is to identify miRNAs bound to AGO2 in different subcellular localizations.

Applicant: The applicant should have a Masters degree. The applicant should have previous knowledge in cell culture, wester blotting, bacteria transformation, RNA isolation and plasmid related work experience. The applicant should also have experience working with proximity mediate labeling techniques. The applicant should also have experience working with siRNAs and cellular fractionations

Application:
Applications should be emailed to aishe.sarshad@gu.se
The application should include; Motivation letter, CV including contact info.