



THE SAHLGRENKA ACADEMY
INSTITUTE OF NEUROSCIENCE AND PHYSIOLOGY

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Announcement - scholarship at undergraduate level

The Department of Physiology, Institute of Neuroscience and Physiology, hereby announces a vacant scholarship at undergraduate level in “Secondary analysis of proteomic data”.

Training plan

Background: Polycystic ovary syndrome’s (PCOS) main feature is hyperandrogenism, which is linked to a higher risk of metabolic disorders. Gene expression analyses in adipose tissue and skeletal muscle reveal dysregulated metabolic pathways in women with PCOS, but these differences do not necessarily lead to changes in protein levels and biological function. To advance our understanding of the molecular alterations in PCOS, we performed global proteomic and phosphorylation site analysis using tandem mass spectrometry on adipose tissue and skeletal muscle from women with and without PCOS.

Purpose: To perform secondary analysis of proteomic data from women with PCOS and controls.

Method: Processing and functional analysis of phosphoproteomic data will be analyzed using PhosR to identify kinase-kinase interactions and kinase-substrate pairs to find the kinases most likely to regulate a phosphosite.

Time plan: 4 weeks starting in October 2024

Learning outcome: To independently be able to perform secondary analysis of phosphoproteomic data using PhosR. The training involves bioinformatic processing and analysis of phosphoproteomic data. The student will receive hands-on training and supervision.

Period

2024-10-30 to 2024-11-27

Financing

1 payment of 13 000 SEK. A total of 13 000 SEK for the whole period

If you require any further information, please contact Anna Benrick, anna.benrick@gu.se, supervisor.

Application

To apply please fill out the form “Scholarship application” and send it to Anna Benrick, anna.benrick@gu.se, supervisor.

Please attach a copy of:

CV

Letter of motivation

Closing date is 2024-10-30