



THE SAHLGRENKA ACADEMY
INSTITUTE OF NEUROSCIENCE AND PHYSIOLOGY

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Announcement - scholarship at undergraduate/advanced level

The Department of Physiology, Institute of Neuroscience and Physiology, hereby announces a vacant scholarship at undergraduate/advanced level in “Histological phenotyping of a PCOS-like mouse model”.

Training plan

Background: Clinical and pre-clinical evidence pinpoint excessive secretion of androgens as the underlying cause of polycystic ovary syndrome (PCOS), the most common endocrine disorder in women. Women with PCOS display high circulating androgens and low adiponectin levels during pregnancy, which affect the fetus and may increase the risk of mood disorders. Over 60% of women with PCOS are diagnosed with at least one psychiatric disorder. A meta-analysis showed an inverse association between adiponectin levels and mental health. Therefore, we will investigate if low adiponectin levels may contribute to anxiety and depression in a PCOS-like mouse model.

Prenatal androgenization leads to anxiety-like behavior in the offspring. We have determined the effect of low adiponectin levels on anxiety-like behavior in mice exposed to prenatal androgens (PNA) for 3 days during late gestation.

Purpose: To perform histology on ovary and adipose tissue from PCOS-like mice. Ovarian histology is used to identify the presence of corpus luteum and quantify the number of follicles. Adipose tissue histology will determine adipocyte size.

Method: Hematoxylin and eosin staining of ovary and adipose tissue.

Time plan: 4 weeks starting in June 2024

Learning outcome: To independently be able to perform histology on fixated tissues. The training involves paraffin embedding of tissue, cutting, staining, microscopy, and quantification of pictures. The student will receive hands-on training. This training position comes with a stipend, that does not represent a salary and the activities performed are not regarded as work.

Period

2024-06-10 to 2024-07-05

Financing

1 payment of 12 000 SEK. A total of 12 000 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 2024-05-27.