



**THE SAHLGRENKA ACADEMY**  
**INSTITUTE OF NEUROSCIENCE AND PHYSIOLOGY**

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## **Announcement - scholarship at undergraduate/advanced level**

The Department of Pharmacology, Institute of Neuroscience and Physiology, hereby announces a vacant scholarship at advanced level in Sex differences in osteoarthritis pain.

### **Training plan**

Subject: Sex differences in osteoarthritis pain. Analysis of the bone phenotype in OA patients and OA mouse model.

Background: Women in Sweden take more sick leave days than men mainly due to musculoskeletal diseases, with osteoarthritis (OA) being the most represented among such disorders. The symptoms experienced by patients with knee OA are pain and reduced mobility, resulting from cartilage erosion, alterations of the underlying bone, and inflammation. OA is more common and painful in postmenopausal women, when estrogens decline, compared to men with similar joint damage.

Purpose: The project aims to identify bone differences among male and female OA patients that could be mediated by the alteration of sex hormones. Moreover, bone analysis will be performed in control and sex hormones-deprived OA mouse model.

Methods: micro-computed tomography will be performed on bone specimens collected from OA patients and mice.

Time plan: the training and analysis will be performed in 3 months.

Learning outcome: the researcher will acquire theoretical knowledge on the bone physiology and the molecular mechanisms behind pain generated by bone alteration. He/she will also obtain technical skills on micro-computed tomography analysis.

### **Period**

2025-04-01 to 2025-06-31

### **Financing**

3 payments of 18000 SEK. A total of 54000 SEK for the whole period

If you require any further information, please contact Carmen Corciulo, carmen.corciulo@gu.se, supervisor.

**Application**

To apply please fill out the form “Scholarship application” and send it to Carmen Corciulo, [carmen.corciulo@gu.se](mailto:carmen.corciulo@gu.se), supervisor.

Please attach a copy of:

CV

Letter of motivation

Closing date is 2025-03-25.