



## SAHLGRENKA AKADEMIN INSTITUTIONEN FÖR BIOMEDICIN

Institutionen för biomedicin

2023-04-24

Avdelningen för Microbiologi and Immunologi

Handledare: Anetta Härtlova, PhD

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### Utlysning av stipendium

A stipend is announced in molecular inflammation at the Institute of Biomedicine, Department of Microbiology and Immunology, from 2023-06-01 through 2024-05-31.

**Project title:** Investigating the role of endolysosomal system and metabolism in innate immune regulation

**Background:** There is an increasing appreciation that immune cells that are responsible for tissue homeostasis, such as circulating myeloid cells and brain-resident macrophages, play an important role in brain ageing and neurodegeneration.

**Purpose:** Our preliminary data indicates that the Parkinson's associated kinase Leucine rich repeat kinase 2 (LRRK2) is highly expressed on innate immune cells and linked with dysregulation of endosomal and inflammatory pathways. With this regard, outstanding questions that require investigation include how LRRK2-mediated vesicular trafficking dysregulation modulates metabolism and inflammation activity in innate immune cells, and the regulatory mechanisms that ensure that inflammatory pathways are kept tightly regulated? Also how inflammation accounts or contributes to increased proneness to PD remains to be addressed.

**Time Plan:** The project will be carried out from 2023-06-01 through 2024-05-31.

**Learning outcome:** After completion of the project the student shall be able to perform qRT-PCR and Western blotting analyses. The stipendiat will receive 15000 SEK/month during the period of 12 months.

Application's CV and application letter should be sent to Anetta Härtlova ([anetta.hartlova@gu.se](mailto:anetta.hartlova@gu.se)) and must be received no later than 2023-05-11. There is no special application form.

handledare

Anetta Härtlova