**Lund University student project:**
Utbildningsstipendium, Neurologi
Dnr V2018/2124
Deadline för ansökan: 2018-12-11

*Towards improved post-stroke recovery - cell reprogramming-based strategy*
(Period: 190101—190630, amount 15 000 SEK per quarter).

This project aims to evaluate the feasibility that transplantation of new neurons derived from reprogrammed non-neuronal cells into stroke-damaged brain and direct reprogramming of the adult brain’s own glial cells into neurons by injecting viruses in the brain can improve functional recovery after stroke. The proposal is novel and presented problems are addressed by modern, comprehensive and multi-methodological approaches. The data obtained within this project will contribute to the development of future therapeutic approaches for the treatment of stroke.

**Study description:**

The studies will include isolation, characterization and genetic manipulation of microglia and astrocytes and their reprogramming to cortical neurons. These cells will then be transplanted in rodent models of stroke. The project involves animal experiments.

**Qualifications:**

Applicants should have a recent MD with emphasis on neurology, neuroscience or closely related disciplines.

The candidate should have basic knowledge and interest neuroscience, in stem cell biology, and restorative/regenerative neurology.

The applicant should also:
- have excellent communication and organization skills
- be fluent in spoken and written English
- have excellent writing and presentation skills
- show flexibility and ability to work in a team environment

We are looking for highly motivated, flexible, and integrative personalities, capable of functioning well in multi-national and multi-cultural teams. Previous experience in, immunocytochemistry and cell culture techniques is favorable.

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