



UPPSALA
UNIVERSITET

Master Degree Project in Bioinformatics
Summer or Fall 2017

Background: It is becoming apparent that individual brain regions are more heterogeneous than previously thought. We are interested in deciphering gene expression profiles of brain cells relevant for treatment of Parkinson's disease. The mouse brain tissue is currently being sequenced at genome-wide level at SciLifeLab and the first set of data will soon be available for computational analysis. While we have some support from SciLifeLab for initial Quality control and preliminary analysis, we now also offer a talented student at the Civilingenjör or Master programmes to perform a thesis project analyzing these exciting new data. The student will work with a post-doc in the lab currently running this project, but it is important that the student has gained complete knowledge in Next-Generation Sequencing data analysis during the basic training. For the computational analysis it is essential that the student has knowledge in basic Linux usage, R-scripting or another programming language and statistics. The student will be offered the possibility to work in a pre-clinically and clinically important research project with expert supervision in terms of brain circuits.

When: Summer-fall 2017

Credit points: 30 hp

Where: Dept of Organismal Biology, Uppsala University,
Mackenzie lab:

<http://www.iob.uu.se/forskning/jamforande-fysiologi/mackenzie-lab/>

Application and questions: Contact Åsa Mackenzie <asa.mackenzie@ebc.uu.se>