

Curriculum Vitae

Petra Bergström (790129-8286)

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EDUCATION

Gothenburg University, PhD in Medicine

Gothenburg University, MSc in Molecular Biology

RESEARCH FOCUS AND EXPERTISE

- Differentiation of human induced pluripotent stem cells (hiPSCs) into cortical neurons as a human cell model for neuronal development and degeneration.
- Analysis of genetics, gene expression and protein expression/processing pathways with focus on Alzheimer's disease biomarkers.
- Culturing of primary cells (iPSCs, astrocytes, endothelial cells, lens epithelial cells, fibroblasts, chondrocytes, blood cells) and various cell lines in order to identify important cellular pathways involved in neurodegenerative diseases. Particular focus on cellular responses to oxidative stress.

RESEARCH EXPERIENCE

Sahlgrenska Academy, Inst. of Neuroscience and Physiology, Dept. of Psychiatry and Neurochemistry (July 2015-present) – PostDoc, studying the role of Alzheimer biomarkers in disease and during neural development using human stem cell-derived cortical neurons.

Sahlgrenska Academy, Inst. of Neuroscience and Physiology, Dept. of Psychiatry and Neurochemistry (Jan 2014-June 2015) – Researcher, differentiating human stem cells towards cortical neurons in order to define the roles of Alzheimer biomarkers in healthy cells and in disease.

Sahlgrenska Academy, Inst. of Biomedicine, Dept. of Clinical Chemistry and Transfusion Medicine (July 2013-Dec 2013), Researcher – Multicentre study of genetic variations in *NFE2L2* of Parkinson's disease.

Sahlgrenska Academy, Inst. of Biomedicine, Dept. of Clinical Chemistry and Transfusion Medicine (Aug 2009-June 2013) – PhD student on the project “**The protective role of Nrf2/Keap1 in neurological disease & oxidative stress-induced cell damage**”
<http://hdl.handle.net/2077/32396>

Sahlgrenska Academy, Inst. of Biomedicine, dept. of Clinical Chemistry and Transfusion Medicine (June 2007-Aug 2009), Biologist – Analyzing shRNA-induced cleavage in cell cultures. Setting up methods to measure the effects of Nrf2 stimulating substances in a number of cell types.