

CURRICULUM VITAE

CURRENT POSITION

Researcher at the research team on “Neurochemical Pathogenesis and Diagnostics” at the Dept. of Neuroscience and Physiology, University of Gothenburg, Sweden.

EDUCATION AND SCIENTIFIC MERITS

Master of medical science in medical biology (MSc), Linköping University, Linköping, Sweden 2007

Doctor of Philosophy in medicine (PhD), Faculty of Health Science, Linköping University, Linköping Sweden. 2012

PostDoc, Dept. of Neuroscience and Physiology, University of Gothenburg, Sweden. 2013-2015

RESEARCH INTEREST

The major research interests are:

- Pathological mechanisms of Alzheimer’s disease
- Differentiation of iPSCs towards neurons
- APP and A β metabolism in healthy and diseased neurons

SCIENTIFIC PRODUCTION

Publications:

- About 10 publications (original research papers in peer-reviewed journals).
- 1 review in peer-reviewed journals.

Selected publications (see also under Publications for the research team)

Lotta Agholme, Sangeeta Nath, Jakob Domert, Jan Marcusson, Katarina Kågedal, Martin Hallbeck. *Proteasome inhibition induces stress kinase dependent transport deficits – Implications for Alzheimer’s disease*. Molecular and Cellular Neuroscience, 2014. 58; 29-39

Sangeeta Nath, Lotta Agholme, Firoz Roshan Kurudenkandy, Björn Granseth, Jan Marcusson, Martin Hallbeck. *Spreading of neurodegenerative pathology via neuron-to-neuron transmission of β -amyloid*. Journal of Neuroscience, 2012. 32(26); 8767-8777.

Lotta Agholme, Martin Hallbeck, Eirikur Benedikz, Jan Marcusson, Katarina Kågedal. *Amyloid- β Secretion, Generation and Lysosomal Sequestration in Response to Proteasome Inhibition: Involvement of Autophagy*. Journal of Alzheimer’s disease, 2012. 31(2); 343-358.

Lotta Agholme, Tobias Lindström, Katarina Kågedal, Jan Marcusson, Martin Hallbeck. *An in vitro model for neuroscience - differentiation of SH-SY5Y cells into cells with morphological and biochemical characteristics of mature neurons*. Journal of Alzheimer’s disease, 2010. 20 (4); 1069-1082.

CONGRESSES

Poster presentation

Society for Neuroscience, Chicago, USA, 2015. "Changes in APP processing in response to inhibition of endocytosis"

AAIC, Copenhagen, Denmark, 2014. "Secretion of Abeta, sAPP and Tau during development of cortical neurons"

AD/PD Firenze, Italy. 2013. "Neuron-to-neuron transmission of alpha-synuclein"

The biology and pathology of Tau and its role in tauopathies II, Cambridge, Great Britain, 2012. "Stress kinases – linking AD pathology to proteasome dysfunction?"

ICAD, Chicago, USA, 2008. "How to differentiate SH-SY5Y neuroblastoma cells into an Alzheimer's Disease relevant *in vitro* model"

SCIENTIFIC AWARDS

Best Poster Prize at "The biology and pathology of Tau and its role in tauopathies II" conference in Cambridge, UK 2012.

Swedish Lundbeck foundation scholarship, 2011

Travel scholarship to the "Alzheimer's disease beyond A β " conference at Copper Mountain, Colorado, USA 2010.