

# Chancellor's Award Lecture

*in Neuroscience*



**Katrin Ingrid Andreasson, MD**

**Professor**

**Associate Chair, Research  
Department of Neurology and  
Neurological Sciences  
Neuroscience Institute  
School of Medicine  
Stanford University**

**Postponed to  
2017  
Date TBA**

**8th Floor**

**Neuroscience Center  
of Excellence**

**Conference Room**

more info: [zdavis@lsuhsc.edu](mailto:zdavis@lsuhsc.edu)

## Reprogramming Brain Microglia in Alzheimer's Disease

A principal focus of our research is the investigation of cellular and molecular mechanisms of neurodegeneration, with a focus on cyclooxygenase-2 (COX-2) and prostaglandin-mediated inflammation and synaptic toxicity. These pathways play critical roles in neuronal, glial, and endothelial functions physiologically and across a broad spectrum of neurological disorders, from acute stroke to neurodegenerative diseases like Alzheimer's disease. One focus of the laboratory has been to understand the mechanistic basis by which inhibition of the COX/prostaglandin pathway by non-steroidal anti-inflammatory drug (NSAIDs) prevents development of Alzheimer's and Parkinson's diseases, diseases whose primary risk factor is aging. Such a mechanistic understanding may lead to novel preventive approaches for two of the most common neurodegenerative diseases as well as provide new insights into inflammatory aspects of aging.