The McGill University Research Centre for Studies in Aging presents:

Douglas Institut universitaire en santé mentale / Mental Health University Institute

# MOLSON LECTURE SERIES ON ALZHEIMER'S DISEASE AND RELATED DISORDERS

It has been shown that Alzheimer's disease pathogenesis activates immunological and inflammatory mechanisms in the brain involving microglia and astrocytes. Is the activation of inflammatory mechanisms during Alzheimer's disease helpful or harmful? Dr. Linda Van Eldik and Paul Edison will provide an overview of basic mechanism underlying neuroinflammation as well as quantification of these alterations in the living human brain.

**Lectures will be held on Friday, May 6, 2016** *Register by email :* **info.mcsa@mcgill.ca**

**Douglas Mental Health University Institute**
**6875 Lasalle Boulevard,**
**Verdun, Quebec H4H 1R3**
**Pavilion Douglas Hall**

**PROGRAM:**
**9:00 a.m. Dr. Linda J. Van Eldik, Ph.D.**
**10:00 a.m. Break**
**10:30 a.m. Dr. Paul Edison, Ph.D.**

**For this activity, we have requested CME study credits from McGill University, Office for Continuing Professional Development (CPD) which sponsors continuing medical education for physicians. The Office for CPD McGill University is fully accredited by the Committee on Accreditation of Canadian Medical Education (CACME).**

## FROM CONCUSSION TO DEMENTIA: TARGETING DYSREGULATED BRAIN INFLAMMATION

### by Dr. Linda J. Van Eldik, Ph.D.

Dr. Linda J. Van Eldik, Ph.D., is Director of the Sanders-Brown Center on Aging, Co-Director of the Kentucky Neuroscience Institute, the Vernon Smith Endowed Chair in Alzheimer Research, and Professor of Anatomy and Neurobiology at the University of Kentucky in Lexington KY. She is also Director of the University of Kentucky Alzheimer's Disease Center, a National Institutes of Health-funded center established in 1985 and internationally recognized for its contributions to the fight against brain diseases that are associated with aging.

She has an active research program focused on brain inflammation, and she is investigating why neurodegenerative disorders exhibit overactive and chronic inflammation that can lead to disruption of normal communication among brain cells and cause nerve cell damage. Her research is identifying potential points of intervention, with a goal of developing new drugs to slow the progression of impairment. Her research is currently funded by the National Institute on Aging, the National Institute of Neurological Disorders and Stroke, and the Alzheimer's Drug Discovery Foundation.

## IMAGING NEUROINFLAMMATION IN NEURODEGENERATIVE DISEASES

### By Dr. Paul Edison, Ph.D.

Dr Paul Edison, Ph.D., is a Clinical Senior Lecturer in the Division of Brain Sciences at Imperial College London and a visiting Professor at Cardiff University, Wales. His work focuses on neuroinflammation, and the interplay between inflammation and immunity in neurodegenerative and neuroinflammatory disease, and relating these with genetic information. He is also evaluating the methods of modulating inflammation and amyloid in Alzheimer's disease, and the influence of cardiometabolic factors on the development of neurodegenerative diseases by means of clinical and pre-clinical studies.

He leads the Imperial College Memory Research centre, and is the chief investigator of several imaging studies using PET and MRI, and heads multicentre studies evaluating novel treatment of Alzheimer's and other neurodegenerative diseases. He leads the Imperial College Memory Research centre, and is the chief investigator of several imaging studies using PET and MRI, and heads multicentre studies evaluating novel treatment of Alzheimer's and other neurodegenerative diseases.

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