Speaker: Bradley Hyman, MD, PhD, John B Penney Professor of Neurology, Director, Massachusetts Alzheimer Disease Research Center, Massachusetts General Hospital, Harvard Medical School

Time: 4pm, Departmental Tea immediately following.
Date: Friday, 31 October 2008
Place: BCS Auditorium, 46-3002
Title: *Multiphoton Imaging of Alzheimer's Disease Changes.*
Host: Sue Corkin

Abstract:

Alzheimer’s disease is a devastating neurodegenerative illness affecting over 5 million Americans. The course of the disease plays out over years, yet the kinetics of the disease process remain uncertain. Using live animal multiphoton microscopy and animal models of AD, we have visualized the formation of plaques and of tangles, and studied the consequences on neural system function of these lesions. Both lesions appear astonishingly quickly – over the course of a day – yet their consequences in terms of neural system destruction, dendritic spine changes, dendritic simplification all occur over a longer time period. These data provide ideas about the tempo of the illness, and how to intervene to make a difference in the clinical picture.