



CENTRE ON AGING PRESENTS

2011–2012 Research Seminar Series

The Involvement of NF- κ B Signaling in Memory Impairment in Alzheimer's Disease

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Memory impairments are central to a variety of neurological conditions, but the most familiar condition where memory is impaired is in Alzheimer's disease. Treating Alzheimer's disease pathology and the cognitive deficits that are seen in this condition remain problematic. Part of the challenge of course is that if we do not understand the fine details of how memory works on a basic biological or neurochemical level, then we are not able to effectively treat memory impairments. However, over the last several years research associated with the biological basis of memory has made great strides. We now believe that Alzheimer's disease is a disease of short term memory where the conversion of short term to long term memory becomes impaired. Recent developments also suggest that transcription is essential for the consolidation of long term memory. In addition, transcriptional signaling pathways such as NF- κ B play not only a role in cancer and inflammatory responses, but also in long term memory and in Alzheimer's disease. The focus of this talk will be to discuss NF- κ B signaling in memory and in Alzheimer's disease. In particular, new data from our lab show several novel links in the NF- κ B pathway that suggest distinct roles for NF- κ B's gene targets in differentially affecting memory and Alzheimer's disease pathology.

Seminar co-sponsor: Department of Pharmacology and Therapeutics

Tuesday, April 10, 2012
Room 405 Brodie Centre
12:00 p.m. to 1:00 p.m.
Bannatyne Campus

All are welcome to attend. For more information, call 474.8754
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