

CPB 69700 RESEARCH SEMINAR

DEPARTMENT OF COMPARATIVE PATHOBIOLOGY

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“Enhancement Of Immunotherapy For Lymphoma Patients”

Thurs., February 16, 2012
VPTH 112
3:30-4:30 pm

ABSTRACT:

Our overall research is to understand the fundamental nature of immune physiology with ultimate goals of manipulating immunity effectors in various disease manifestations. By amplifying the pertinent arms of the immune system, immunotherapy has emerged as a way of fighting cancer to eradicate the tumor cells. We previously reported that Non-Hodgkin's lymphoma (NHL) patients do not respond to IL-12 immunotherapy due to acquired deficiency of Signal Transducer and Activator of Transcription 4 (STAT4) protein, which results in impaired production of IFN γ . The goal is to develop strategies that would enhance anti-tumor immunity for cancer patients by rescuing IFN γ deficiency. Work is underway to investigate the effects of dietary soy peptide on the immune cells, particularly natural killer (NK) cells, and the potential application to harness the power of immunosurveillance to eradicate cancer cells.