Structural Biology & Functional Genomics Lecture Series

Seminar Announcement

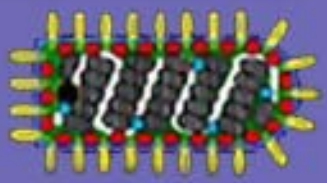
(Department of Biological Sciences & Office of Life Sciences , NUS)

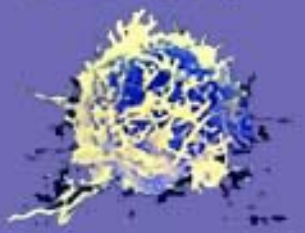
Chen Jianzhu

Asscociate Professor, Dept of Biology,
MIT, USA

Immune response to and RNA interference of Influenza virus

Dr. Chen's laboratory is interested in the molecular mechanisms underlying T cell development and function, focusing on i) control of V(D)J recombination and ii) T cell response, memory, and homeostasis. Their studies show i) that promoter and enhancer regulate V(D)J recombination not only by promoting accessibility of gene segments but also by uppressing aberrant DNA cleavages. Disruption of these normal regulations predispose T cells to lymphoma development. ii) Naive T cells can proliferate in lymphopenic hosts in the absence of foreign antigen, resulting in acquisition of memory phenotype and function. iii) Short interfering RNAs potently inhibit influenza virus production in cultured cells and mice, demonstrating their potential as prophylaxis and therapy for human influenza infection. In addition, Dr. Chen's laboratory has developed mouse model in which T cell response and memory to influenza virus can be examined in great detail.





Date: 16 Jan 2004, Fri
Time: 4 pm
Venue: LT 20
Host: Prof Hew Choy Leong

All are welcome

NUS National University of Singapore

Designed by Yong Ann Nee, Dept of Biological Sciences, NUS