



NSI Meeting Announcement

Date: Thursday, January 25th, 12:15 – 13:00

Venue: Seminar room 3 B1.1017, Rikshospitalet

Guest lecture

by

Dr Bana Jabri

**Associate Professor,
Department of Pathology, University of Chicago**

***“Yersinia targets DC to induce a
dominant immunoregulatory loop”***

Abstract

The development of bubonic plague requires *Yersinia pestis* to establish systemic infection. *Yersinia* low calcium-response V-antigen (LcrV) is thought to play immunomodulatory functions through the induction of IL-10. However, because LcrV plays an essential role in type III secretion, its immunomodulatory functions and its *in vivo* effect on adaptive immunity remain poorly understood. Our study suggests that LcrV may play a key role in the pathogenesis of plague by promoting an ineffectual form of adaptive immunity. We show that LcrV renders DCs resistant to pro-inflammatory microbial signals *in vivo* either directly or indirectly through the education by LcrV-induced regulatory type 1 T cells. Importantly, this propagating dominant regulatory loop blocks the induction of pro-inflammatory immune responses to other pathogens such as *Listeria monocytogenes*. These immunomodulatory properties of LcrV may have important implications for the development of an effective anti-plague vaccine and for the treatment of autoimmunity.

<http://biomed.bsd.uchicago.edu/common/faculty/jabri.html>

Refreshments will be served from 12:00

Welcome all!



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