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# SEMINAR

**Monday, September 2<sup>nd</sup> – 12:00-13:00**  
**CHUV – Institute of Microbiology, seminar room**

## **“System-based Analyses of Host-Pathogen Interactions”**

### **Sumit CHANDA, PhD**

Professor, Infectious and Inflammatory Disease Center  
Sanford/Burnham Medical Research Institute  
La Jolla, California

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***Hosted by Prof Amalio Telenti (CHUV) & Prof Jacques Fellay (EPFL)***

*Viruses are obligate pathogens, and therefore their survival is dependent upon their ability to exploit host cellular machinery. Concurrently, viruses must also successfully evade immune surveillance mechanisms, including first-line (innate) defense systems. The Chanda lab is interested in unraveling the molecular bases for these complex host-pathogen interactions.*

1: Chiang CY et al. Cofactors required for TLR7- and TLR9-dependent innate immune responses. *Cell Host Microbe*. 2012 Mar 15;11(3):306-18

2: Jäger S et al. Global landscape of HIV-human protein complexes. *Nature*. 2011 Dec 21;481(7381):365-70.

3: König R et al. Human host factors required for influenza virus replication. *Nature*. 2010 Feb 11;463(7282):813-7.

4: Bushman FD et al. Host cell factors in HIV replication: meta-analysis of genome-wide studies. *PLoS Pathog*. 2009 May;5(5):e1000437.

5: König R et al. Global analysis of host-pathogen interactions that regulate early-stage HIV-1 replication. *Cell*. 2008 Oct 3;135(1):49-60.