



LECTURE SERIES & WORKSHOPS

INFECTION & IMMUNITY

30

JAN 2020

Thursday

LECTURE

Lycée Guillaume Kroll
d'Esch/Alzette
Salle de Projection *

11.00 - 12.00 pm

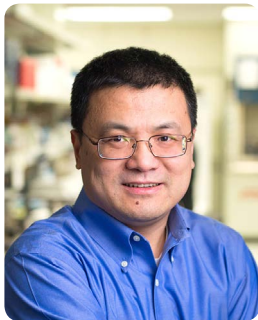
MEET & EAT *

light lunch provided
House of BioHealth,
Room Françoise
Barré-Sinoussi

12.30 - 2.00 pm



*Please register by sending a mail to florence.henry@lih.lu



SPEAKER

Prof Hongbo CHI

Immunology Department,
St. Jude Children's Research Hospital

HOST:

Department of Infection
and Immunity (LIH)

RESPONSIBLE LIH SCIENTISTS:

Prof Dirk Brenner
(dirk.brenner@lih.lu)
Dr Feng He
(feng.he@lih.lu)

SYSTEMS IMMUNOLOGY AND METABOLIC CONTROL OF ADAPTIVE IMMUNITY

ABSTRACT

Coordination of cell metabolic programs with fate decisions is a fundamental determinant of immune responses. Emerging evidence highlights that the interplay between immune signaling and metabolic programming orchestrates the activation and differentiation of T cells that further impact the outcome of adaptive immunity. The seminar discussion will include our recent findings

regarding how mTOR and nutrient signaling pathways shape T cell metabolism and immune responses, and the application of systems immunology approaches to reconstruct metabolic signaling circuits and identify new therapeutic targets (Karmaus, *Nature* 565:101-105, 2019; Shi et al, *Immunity* 51:1012-1027, 2019; and Wei, *Nature* 576:471-476, 2019).

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