

26 SEPT
2024

Thursday

LECTURE

MEET & EAT *

Light lunch provided

11.00am - 12.00pm

12.30pm - 2pm



Mitochondria as signaling organelles control immunity



ABSTRACT

My lab is interested in understanding how mitochondria control physiology and pathology beyond ATP production. For decades, mitochondria have been primarily viewed as biosynthetic and bioenergetic organelles generating metabolites to produce macromolecules and ATP, respectively. Our work has revealed mitochondria have a third distinct role whereby mitochondria can generate signals to control physiology and diseases. Our work reveals that mitochondria can release reactive oxygen species (ROS) and the metabolite L-2-hydroxyglutarate (L-2HG) in controlling hypoxic responses, cellular differentiation, and immune responses. Dysregulation of this mitochondrial signaling can trigger pathology. I will present our latest findings on how mitochondria as signaling organelles control both adaptive and innate immunity.

SPEAKER

Prof. Navdeep Chandel

David. W. Cugell Professor of Medicine, Biochemistry and Molecular Genetics
Northwestern University Feinberg School of Medicine

HOST:

Department of Infection and Immunity (LIH)

RESPONSIBLE SCIENTIST:

Dirk Brenner (dirk.brenner@lih.lu)

* Please note that registration is mandatory by sending an email to carole.weis@lih.lu or michelle.roderes@lih.lu

Locations:

Lecture:

House of BioHealth
Conference Room
(ground floor 0)
29, rue Henri Koch,
L-4354 Esch-sur-Alzette

Meet & eat:

House of BioHealth
Salle Françoise Barré Sinoussi
Registration mandatory