

16

 October
2023

Monday

LECTURE

11.00 - 12.00 pm

MEET & EAT *

Light lunch provided

12.30 - 2 pm



Development of functionally diverse dendritic cell subsets

ABSTRACT

Our work centers on the functional and developmental diversity in the immune system's 'conventional' or 'classical' dendritic cells (cDC). Much of our recent work has elaborated a series of transcription events that induce the specification and commitment of progenitors into the so called type 1 cDC (cDC1) that is a requirement for priming CD8 T cell responses against certain viruses and tumors. We will discuss recent work in the area of divergence of the common dendritic cell progenitor (CDP) into the type 1 cDC (cDC1) and cDC2 related to this cascade including the factors Nfil3, Zeb2, Id2, Batf3, Irf8, C/EBP β , C/EBP δ , as well as several enhancers of these genes that link them together into coherent network. New findings regarding the Irf8 superenhancer and the intercommunication between its internal constituents may be discussed. An notable finding relates to the 'suboptimization' of the Irf8 +32 kb enhancer, which suboptimization is surprisingly necessary cDC2 commitment. Finally, with respect to the cDC1 cross-presentation of cell-associated antigens, we will report on new results related to the function of the BEACH family protein WDFY4.

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SPEAKER

Prof Kenneth Murphy

Professor of Pathology and Immunology,
Washington university school of Medicine,
St. Louis, Missouri, USA

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