

LECTURE SERIES & WORKSHOPS 2019

CANCER RESEARCH

15

OCT 2019

Tuesday

LECTURE
CHL Luxembourg
Amphitheatre

MEET, GREET & EAT *

light lunch provided
CHL Luxembourg
Foyer

11.00 - 12.00 pm **12.00 - 1.00 pm**



* Registration is mandatory
by sending an email to
florence.henry@lih.lu



SPEAKER

Prof Ana C. ANDERSON

Associate Professor of Neurology,
Harvard Medical School
Scientist, Brigham and Women's Hospital,
USA

CELLULAR AND MOLECULAR CIRCUITS THAT DETERMINE CD8+ T CELL PHENOTYPES IN CANCER

ABSTRACT

The CD8+ T cell response is a critical component of anti-tumor immunity. Within tumor tissue, the CD8+ T cell response is heterogeneous with effector CD8+ T cells and dysfunctional or "exhausted" CD8+ T cells at opposite ends of the functional spectrum. We have applied an integrated and iterative approach involving experimental immunology, supervised and unsupervised genomics, and computational analyses to study CD8+ tumor-infiltrating lymphocytes (TILs). Through these efforts, we have uncovered a role for intracellular zinc in

driving T cell dysfunction, leading to the discovery of distinct gene modules associated with the activated vs dysfunctional T cell state in CD8+ TILs. We have also identified a transcriptional circuit downstream of the immunoregulatory cytokine IL-27 that controls the expression of an immunoregulatory module of co-inhibitory and co-stimulatory receptors in CD8+ TILs. Lastly, we have discovered a role for endogenous steroid hormone production and signaling within the tumor microenvironment in driving T cell dysfunction.

HOST:
LIH

RESPONSIBLE LIH SCIENTISTS:

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