

FOR5200 SEMINAR Series

GUESTS ARE WELCOME

Digital lecture - For access link please contact the DEEP-DV Office

Céline Maquet, PhD

Andrea Ablasser Group: Innate Immunity, Global Health Institute, École Polytechnique Fédérale de Lausanne (EPFL), Lausanne, Switzerland

Deciphering the role of gammaherpesvirus-imprinted monocytes in preventing deleterious inflammation

During my Ph.D., I focused on mechanisms underlying immunoregulation that come into play during viral infections, particularly after gammaherpesvirus infection. Gammaherpesviruses are among the most prevalent human viruses and have developed an impressive arsenal of strategies to coexist with the host's immune response. I used a murine model of gammaherpesvirus infection (Murid gammaherpesvirus-4) to investigate the impact on the host immune system caused by these infections. Using various conditional mutant mice, I demonstrated that the absence of monocytes after infection is associated with severe virus-induced immunopathology and the presence of deleterious cytotoxic CD4 T cells. This study highlights the role of Ly6Chi monocytes in modulating CD4 T cell functions and reveals the relevance of regulatory pathways that could be therapeutically targeted to reduce the severe immunopathologies associated with respiratory viral infections.





**September
5th 2023
3:00 PM**



Disrupt - Evade - Exploit

Gene expression and host response programming in DNA virus infection

DEEP-DV Office

 <https://deep-dv.org/wp/>
 info@deep-dv.org