

Kind invitation to the lecture

# **CD4 T cell responses to tumors: looking for new stones to kill the bird**

**Dr. Rémy Bosselut**

Senior Investigator, Immune Cell Biology, NCI, NIH



Friday May 24<sup>th</sup> 2024  
at 11h00



Campus UZ Gent  
The Core (MREB3)  
Room 0.8—Together  
Entrance 37b, ground floor

*Hosted by Prof. Dr. Tom Taghon*

## **About**

Rémy Bosselut is a senior investigator at the National Cancer Institute from the NIH. Research in his lab is focussed on the transcriptional control of CD4<sup>+</sup> T cell development and function. The lab is specifically interested in the transcriptomic programs controlling the emergence of the CD4<sup>+</sup> T cell lineage in the thymus and in the transcriptional control of CD4<sup>+</sup> T cell responses to pathogens and tumors. For this, researchers in his lab integrate experimental approaches, including single cell and tissue “omics” analyses (which are a major focus of the lab), genetics, *in vivo* models of infection and tumor, and bioinformatics.

Selected publications include:

Single-Cell Profiling Defines Transcriptomic Signatures Specific to Tumor-Reactive versus Virus-Responsive CD4(+) T Cells.

Magen A, Nie J, Ciucci T, ..., McGavern DB, Hannehalli S, **Bosselut R**.  
*Cell Rep* **29**, 3019-3032.e3016 (2019).

Zfp281 and Zfp148 control CD4<sup>+</sup> T cell thymic development and T<sub>H</sub>2 functions

Laura B Chopp , Xiaoliang Zhu, Yayi Gao, ..., Jinfang Zhu, **Rémy Bosselut**  
*Sci Immunol* **8**, eadi9066 (2023).