

Beyond Insulin:

Innovative research in T1D prevention and cure



AUSTRALASIAN
TYPE 1 DIABETES
IMMUNOTHERAPY
COLLABORATIVE

Speaker's name: Prof Sammy Bedoui

Seminar date: Thursday, 27th March 2025, 1-2pm AEDT

Seminar title: Microbiota orchestrate protective and damaging T cell responses

Zoom link: <https://us02web.zoom.us/j/5056623028> **Passcode:** 230004

About the speaker: Sammy holds a medical degree from the Hannover Medical School in Germany and heads a laboratory at the Doherty Institute for Infection and Immunity in Melbourne, having previously held positions at the Walter & Eliza Hall Institute in Melbourne, the National Institute of Neuroscience in Tokyo and the Hannover Medical School in Germany. Sammy directs a joint PhD Program with the University of Bonn in Germany, that commenced in 2016 and from which over 40 Graduate Researchers have received jointly awarded PhDs. Sammy is Head of Discovery Research at the Doherty Institute of Infection and Immunity, and holds responsibilities for international partnerships in the Cumming Global Centre for Pandemic



Therapeutics. Sammy's research seeks to advance our understanding of how immune responses are initiated, tailored to the specific conditions associated with a given infection or disease, and eventually tuned down when the initial threat is overcome.

Brief outline of seminar content: Interactions between the host and its microbiota influence many aspects of immunity, including responses of T cells against infection and cancer. Sammy will discuss the impact of the microbiota on T cell differentiation and memory, outlining a role of microbiota-derived short-chain fatty acids in promoting oxidative metabolism and stemness of CD8⁺ T cells and effector function CD4⁺ T cells, and will examine their relevance in cancer, infection and immunopathology.

For more information about the seminar series, please contact Michelle So mso@svi.edu.au