HDACs as regulators of T cell-mediated immunity in health and disease

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HDACs IMMUNO-MODULATION TCELLS SFB-F70

Impromptu - SFB F70 Seminar

Environmental influences on regeneration of intestinal epithelium

Brigitta Stockinger, PhD

Principal Group Leader / Associate Research Director

Francis Crick Institute, London, UK

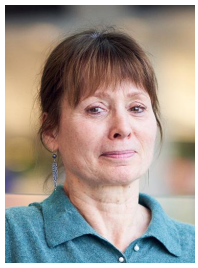
Monday 13th of June, 2022, 16:00 Uhr

Zoom https://us02web.zoom.us/j/88526716064?pwd=N2dBenEya2I2SThZZUk2TmhNc2pZdz09

Meeting ID: 885 2671 6064 **Passcode:** 848704

Host: Wilfried Ellmeier

The Seminar will be organized as a hybrid seminar at the VCC Seminar room (Lazarettgasse 19, 1090 Vienna). If you are interested to join in person, please contact: maria.umundum@meduniwien.ac.at



Gitta obtained her PhD in Biology at the University of Mainz and then did postdoctoral studies in London and Cambridge, followed by a postdoc at the Cancer Research Institute in Heidelberg. In 1985 she became a member of the Basel Institute for Immunology where she stayed until 1991. In 1991 Gitta became a group leader in the Division of Molecular Immunology of the Medical Research Council National Institute for Medical Research (now part of the Francis Crick Institute) and Head of Division in 2010. Her research interests over time included immune tolerance using T cell receptor transgenic mouse models and immunological memory focusing on CD4 memory T cells, their generation and survival. Gitta's lab got involved in infection and inflammation research following their discovery of the differentiation factors for Th17 generation. More recently they discovered the importance of the transcription factor aryl hydrocarbon receptor (AHR), an environmental sensor, in the immune system and beyond. Gitta obtained an ERC Advanced Investigator grant in 2009 to study physiological functions of AHR and in 2013 was awarded a Wellcome Senior Investigator Grant to expand the investigation of AHR in innate and adaptive immune cells. She obtained a CRUK grant in 2015 to study the role of AHR in intestinal tumorigenesis and a Wellcome Investigator Grant in 2018 to focus on AHR influences in the intestinal environment. She became a Fellow of the Academy of Medical Sciences in 2005, an EMBO fellow in 2008 and a Fellow of the Royal Society in 2013.

Selected recent publications

- Shah et al. Cell-intrinsic Aryl Hydrocarbon Receptor signalling is required for the resolution of injury-induced colonic stem cells. Nat Commun. (2022)
- Diny et al. The aryl hydrocarbon receptor contributes to tissue adaptation of intestinal eosinophils in mice. J Exp Med (2022).
- Obata et al. Neuronal programming by microbiota regulates intestinal physiology. Nature. (2020).
- Omenetti at al. The Intestine Harbors Functionally Distinct Homeostatic Tissue-Resident and Inflammatory Th17 Cells. Immunity (2019).