

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

SFB-F70: A special research program funded by the Austrian Science Fund (FWF).

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4 Postdoctoral fellow, 5 PhD student & 2 Bioinformatician (Postdoc & MSc level) positions available! (Vienna and Salzburg, Austria)

OUR AIMS: Histone deacetylases (HDACs) are key epigenetic and genetic regulators during development and cell differentiation. HDACs control the acetylation status of histones and non-histone proteins, thus modulating chromatin function and the activity of non-histone protein targets, respectively. The overall aim of this 8-year special research program and consortium is to provide a mechanistic molecular rationale for the development and application of isoform-selective HDAC inhibitors for the treatment of T cell-mediated diseases, and to test essential regulatory roles of reversible lysine acetylation beyond histone modifications and epigenetic gene regulation in T helper cells.

HDACi and novel HDAC targets for therapies

Autoimmunity
Inflammation
Infection



New conceptual view about HDACs in T-cells

Chromatin
Non-histone targets

OUR PROJECTS:

- Christoph BOCK: Systems-level analysis of HDAC-dependent Th cell plasticity (1 Postdoc position)
- Michael BONELLI: HDACs as targets in systemic autoimmune disease patients (2 PhD student positions)
- Nicole BOUCHERON: HDACs and Th cell modulation in allergic airway inflammation (1 PhD student position)
- Wilfried ELLMEIER: HDAC function in T cells beyond histone modifications (1 Postdoc position)
- Iris GRATZ: HDAC function in peripheral regulatory T cell biology (1 Postdoc position)
- Markus HARTL: HDAC-dependent interactomes and acetylomes in T cells
- Karl KUCHLER: HDACs and T cell-mediated antifungal immunity (up to 2 PhD student positions)
- Christian SEISER: Regulation of HDAC complex function in T cells (1 Postdoc position)
- SFB Bioinformatics platform (1 Postdoc position & 1 research bioinformatician - MSc level)

OUR OFFER: Being part of a newly established collaborative translational immunology research program embedded in a stimulating international interdisciplinary research environment (based in Vienna and Salzburg, Austria) with access to state-of-the-art technology.

APPLICATION: Candidates have to demonstrate a strong motivation to engage in the project and network. Previous research experience in either immunology, molecular/cell biology, epigenetics, systems biology or bioinformatics is desired (but not essential). Electronic applications must include the following documents in a **single PDF file**:

1. Academic curriculum vitae of no more than 2 -3 pages
2. List of peer-reviewed publications
3. Motivation letter explaining why you wish to start / continue a career in the field (1 page), and which SFB group(s) you would like to join

Applications (subject heading "Application for HIT-SFB Position") should be e-mailed by February 25 2019 to hit@meduniwien.ac.at. Two reference letters must be e-mailed by mentors of applicants before the deadline directly to hit@meduniwien.ac.at. Short-listed candidates will be invited for Skype interviews and/or personal interviews in March 2019. Positions are open from April 2019 onward; the actual start dates are flexible.

INFORMATION: A description of the research program, of the individual projects and all application details can be found at: www.meduniwien.ac.at/HIT