

Immunometabolism – metabolic maintenance of tissue integrity by macrophages

Kick-off meeting of the FWF Special Research Program (SFB) F83

Thursday, 4th November 2021, 10.00am – 1.00pm
Medical University of Vienna, 1090 Vienna

www.meduniwien.ac.at

The special research program (SFB) “Immunometabolism” is a major research network and strategic grant funded by the Austrian Science Fund (FWF). It brings together a multidisciplinary team of research groups located in Vienna and Graz with a common interest in studying the importance of metabolism in the immune function of macrophages.

Immunometabolism is an emerging field dedicated to studying the role of metabolic processes within immune cells. Cells have many different metabolic pathways to convert proteins, lipids, or carbohydrates into energy or building blocks to generate new macromolecules. Recent findings highlight the importance of such metabolic pathways in the direct modulation of immune cell function; however, the exact molecular mechanisms remain to be elucidated.

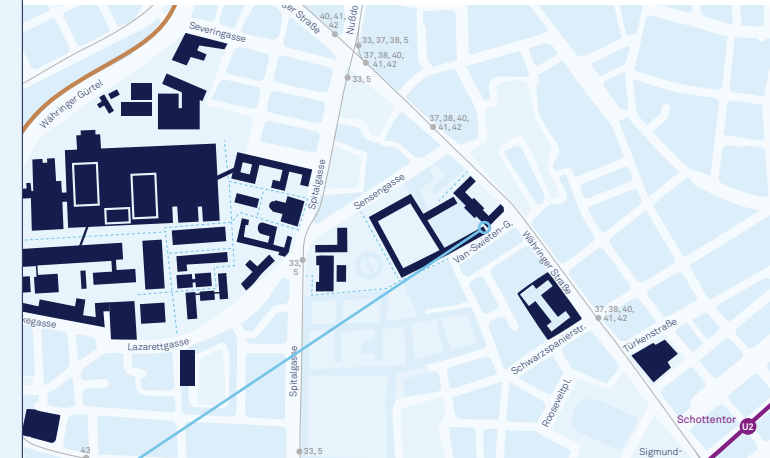
The goal of the SFB program is to study the function of metabolic processes and nutrients specifically in macrophages. Macrophages are key players during inflammatory diseases, cancer, and obesity and maintain tissue integrity by phagocytosing aging, unhealthy tissue cells or pathogenic microorganisms.

The SFB team, comprising experts from the fields of metabolism, immunology, biochemistry, epigenetics, biophysics, bioinformatics, and the microbiome, will therefore investigate the metabolic functions of macrophages in the context of human diseases associated with the intestine and adipose tissue, with a central goal of identifying novel therapeutic targets for inflammatory bowel diseases, cancer, cachexia, obesity, and diabetes.

Please register until 1st November 2021 by sending an e-mail to sfb_immunomet@meduniwien.ac.at.

Registration is mandatory.

Access is only possible by adhering to the 2.5G ruling (vaccinated, recovered from infection, PCR-tested).



Van Swieten Saal, Medical University of Vienna
Van-Swieten-Gasse 1a
1090 Vienna

In cooperation with



The SFB is funded by:



Please be aware that photographs and/or video footage will be taken at the event. These may be used for the purpose of documenting or reporting the event and published in print and online media, on various social media platforms and on MedUni Vienna's website.

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Programme

10.00 – 10.10 am

Welcome

Michaela Fritz
Vice Rector for Research and Innovation,
MedUni Vienna, Austria

10.10 – 10.30 am

Presentation of the SFB

Thomas Weichhart, Coordinator of the SFB
Center of Pathobiochemistry & Genetics,
MedUni Vienna, Austria

10.30 – 11.20 am

Moderation

Christine Moissl-Eichinger, MedUni Graz, Austria

Adipose tissue heterogeneity and its implications for metabolic control

Christian Wolfrum, Translational Nutrition Biology
Laboratory, ETH Zürich, Switzerland

Withering away: Molecular mechanisms of adipose tissue atrophy during cancer cachexia

Martina Schweiger
Institute of Molecular Biosciences, University of Graz,
Austria

11.20 am – 12.10 pm

Moderation

Gerda Egger, MedUni Vienna, Austria

Immunological anti-ferroptosis

Peter Murray
Max Planck Institute of Biochemistry, Martinsried,
Germany

The balance of glycolysis and the pentose phosphate pathway controls immune cell function

Arvand Haschemi
Department of Laboratory Medicine, MedUni Vienna,
Austria

12.10 – 1.00 pm

Get-together

Members of the SFB F83 are:
Gerda Egger, Arvand Haschemi, Christine
Moissl-Eichinger, Elena Pohl, Thomas Rattei,
Gernot Schabbauer, Martina Schweiger, and
Thomas Weichhart.