Hyperflow 2023

11. & 12.5.2023

TU Vienna, Kuppelsaal, Karlsplatz 13, 1040 Vienna

Thursday, 11.05.2023

13:30 – 14:15 **Opening Lecture**

Multimodal single cell analysis of tissue and tumor microenvironment
Stefan Salcher, Medical University of Innsbruck, Innsbruck

14:15 – 15:45 **Multicolor I**

AML-MRD and progenitor/stem cell compartment analysis
Michael Dworzak, Children's Cancer Research Institute, Vienna

Advanced immunophenotyping: a powerful tool for immune profiling and drug screening
Teresa Preglej, Medical University of Vienna, Vienna

A systematic approach to antibody evaluation
Beate Posch, Medical University of Innsbruck, Innsbruck

Forty-Color Full Spectrum Flow Cytometry Panel for Deep Immunophenotyping of fresh- & frozen whole blood samples
Friedrich Neubauer, Medical University of Vienna, Vienna

Mass cytometry in peripheral blood of patients with different forms of chronic rhinosinusitis
Julia Eckl-Dorna, Medical University of Vienna, Vienna

15:45 – 16:00 **Break**

16:00 – 17:15 **Multicolor II**

Deep Immunophenotyping of Human iPSC-Cardiomyocytes
Nicole Maeding, University of Salzburg, Salzburg

How flow cytometry-based immunophenotypization is impacted by storage time and anticoagulants
Lukas Wisgrill, Medical University of Vienna, Vienna

Limited humoral and cellular immune response following homologous or heterologous SARS-CoV-2 vaccination in kidney transplant recipients.
Andreas Heinzel, Medical University of Vienna, Vienna

Comparative immunology: contribution from the pig as animal model
Kerstin Mair, University of Veterinary Medicine, Vienna

17:15 – 17:30 **Break**

17:30 – 18:30 **Microbiology**

Solid Phase Cytometry for the detection of rare events: applications, possibilities and limitations
Lena Campostrini, Medical University of Vienna, Vienna

TLR4/CD14/MD2 Revealed as the Limited Toll-like Receptor Complex for Chlamydia trachomatis-Induced NF-κB Signaling
Romana Klasinc, Medical University of Vienna, Vienna

Bacterial mock communities for flow cytometric analyses
Claudia Kolm, Karl Landsteiner University, Krems

Flow cytometric analysis of microbial growth dynamics to determine biostability of drinking water resources
Julia Vierheilig, Technical University of Vienna, Vienna

19:00 Joint Dinner **Stöckl im Park,** Prinz-Eugen-Straße 25, 1030 Vienna
Registration and fee required (see below)

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Friday, 12.05.2023

9:00 – 10:30 **Data Analysis**

Before and after data analysis: Data acquisition and data management
Sophia Derdak, Medical University of Vienna, Vienna

Python for FCM (forget R 😉)
Lisa Weijler, Florian Kowarsch, Matthias Wödlinger, Michael Reiter
Technical University of Vienna, Vienna

Advances in Automated MRD Assessment
Lisa Weijler, Florian Kowarsch, Matthias Wödlinger, Michael Reiter
Technical University of Vienna, Vienna

10:30 – 11:00 **Break**

11:00 – 12:15 **Extracellular Vesicles**

Detection of extracellular vesicles in patient derived sarcoma cell lines using flow cytometry and ExoView technology
Beate Rinner, Medical University of Graz, Graz

Establishment of a fluo-triggerd flow protocol for the analysis of Extracellular Vesicles
Wolfgang Holnthoner, Ludwig Boltzmann Institute for Traumatology, Vienna

Characterization of tissue factor-bearing extracellular vesicles in COVID-19 provides evidence for platelet-monocyte aggregate formation
René Weiss, Danube-University Krems, Krems

Extracellular vesicles for peripheral nerve regeneration: Interactions with and effects on Schwann cells
Maximilian Haertinger, Medical University of Vienna, Vienna

Participation in the event is free of charge, but for organizational reasons we ask for registration by email ***by 28.4.2023*** to: andreas.spittler@meduniwien.ac.at.

The conference is approved for the *Diploma Training Program of the ÖÄK* with **9 Medical DFP** and by *biomed austria - Austrian Professional Association of Biomedical Analysts* with **9 CPD Points**.

For the ***Joint Dinner*** a contribution towards expenses **of 25€** will be charged.
We ask for payment ***until 28.4.2023*** to the account of the OEGfZ:
IBAN: AT 761200050278943400, **BIC:** BKAUATWW
Please indicate **"HyperFlow 2023"** and the name of the participant as reason for payment!

Version of 20.2.2023, subject to any changes