cell CULTURE days

September 23rd - 24th
2026

Medical University of Graz

Sessions

- Biomaterial & Cell Culture
- Stem Cell Biology & Differentiation
- Cellular Immune Responses
- Organoids & 3D Model Systems
- Extracellular Vesicles

Several Workshops

Registration

- Regular: 190 €*
- Member: 170 €* (RepRefRed Society, ÖGfZ)

* social evening included

Registration Link

THE 3R REP REF RED SOCIETY

Cell BANK Graz

ÖEGfZ

Med Uni Graz

Preliminary Program

Wednesday September 23

8:15 - 9:00 REGISTRATION

9:00 - 9:15 WELCOME COFFEE

9:15 - 11:00 SESSION I – Biomaterial & Cellculture

- 3D Organ-on-Chip Models: Applications of the Mimetas Platform in Advanced Cell Culture - **Monika Riederer**
- Modulating Mitotic Cell Fate Decisions in Cancer Cells - **Michael Dengler**
- In Vitro Traumatic Brain Injury Models: a Multimodal Approach towards Regenerative Therapies - **Theresa Rienmüller**
- From Animal-Free Human Skin Models to Skin Microbiome-Melanoma Crosstalk - **Richárd Máté**
- Microelectrode Arrays: Comparative Analysis of Systems and Their Applications in Cell Culture Technology - **Heinz Wanzenböck**

11:00 - 11:15 COFFEE BREAK

11:15 - 13:15 SESSION II – Organoids & 3D Model Systems

- Development of blood-brain barrier in vitro models for neurotoxicity assessment - **Winfried Neuhaus**
- Modeling Chemotherapy Resistance Using Patient-Derived Tumor Organoids - **Gerda Egger**
- Precision Cut Tissue Slices- from the Clinic to Cell Culture - **Katrin Panzitt**
- How to Enhance the Physiological Accuracy of 3D Cell Culture Models - **Julia Fuchs and Mathias Polz**
- BEATS – MIGRAINE: Biomarker Establishment of Altered Targets in Skin for Migraine - **Janine Zwicklhuber**
- Tba **- Sissy Häsler Gunnarsdottir**

13:15 - 14:15 LUNCH

14:15 - 15:45 WORKSHOP SESSION I

A) **Carla Sanjurjo and Neha Goveas:** From Maintenance to Models: Optimizing Your PSC Research Workflow for Disease Modeling
B) **Michael Ausserlechner:** 3D Bioprinting on Chip - a Strategy for Developing Perfused 3D tissue Equivalents
C) **Freya Lyssy:** Next-Generation Cell Models: 3D Culture, Co-Culture & Analysis

15:45 - 16:00 COFFEE BREAK

16:00 - 17:30 WORKSHOP SESSION II

A) **Eva Kicker and Katrin Panzitt:** Slices, Systems & Solutions: Exploring Ex Vivo Organ Culture Applications
B) **Djenana Vejzovic:** State-of-the-Art Approaches in Extracellular Vesicle Production, Isolation, and Characterization
C) **Johannes Fosselteder:** Genome Engineering Tools – How to CRISPR
D) **Christian Viertler and Beate Rinner:** A Pathologist's View: Tissue Pre-Analytics, Diagnostics, and Primary Cell Culture

SOCIAL PROGRAM AND DINNER

Climb the „Schlossberg“ in different ways

Preliminary Program

Thursday September 24

9:00 - 10:45 SESSION III – Cellular Immune Responses

- C5a/C5aR Signaling Rewires HIV-Exposed Dendritic Cell Fate - **Wilfried Posch**
- Design and Evaluation of Biomaterial-Based and Scaffold-free 3D in vitro Models in Mechanically Dynamic, Hypoxic, and ROS-modulated Microenvironments - **Antonya Lavrentieva**
- Dissecting the immunoregulatory properties of Nr4a1 in aggressive lymphoma - **Katrin Pansy**
- Single Cell Technologies for Deep Characterization of T Cells - **Sieghart Sopper**
- Tba **- Johannes Fessler**

10:45 - 11:00 COFFEE BREAK

11:00 - 12:45 SESSION IV – Stem Cell Biology & Differentiation

- Utilising Human Induced Pluripotent Stem Cell-Derived Cardiovascular Cells to Elucidate Disease-Associated Molecular Mechanisms - **Qasim Majid**
- Using Human iPSCs to Study the Ion Channel Piezo1 During Human Evolution - **Isabel Dorn**
- Deep Immune Phenotyping of HLA-Homozygous iPSC-Derived Cardiomyocytes by Spectral Flow Cytometry **Dirk Strunk**
- Enucleated Cells as Novel Delivery Platform for Proteins and Cell Organelles - **Oona Jung**
- Towards fully Patient-Matched In Vitro Models: Expanding Cancer Models with iPSC-Technology **Christina Karner**

12:45 - 13:45 LUNCH

13:45 - 15:30 SESSION V – Extracellular Vesicles

- Heparin can Augment EV Recovery by Inhibiting Homologous Reuptake - **Martin Wolf**
- Building a Patient-Derived Glioblastoma Platform to Study Tumour Heterogeneity and EV-Mediated Communication **– Giorgia Magnarini**
- EV-Checklist: AI-Powered Rapid Documentation for Enhancing Transparency and Accessibility of Extracellular Vesicle Research Data - **Rodolphe Poupardin**
- EV-Based Biomarker Discovery - **Antri Stefani**
- Investigating the Role of Extracellular Vesicles in Sarcoma Metastasis - **Djenana Vejzovic**

15:30 - 15:45 COFFEE BREAK

15:45 - 17:15 WORKSHOP SESSION III

A) **Carla Sanjurjo and Neha Goveas:** From Maintenance to Models: Optimizing Your PSC Research Workflow for Disease Modeling

B) **Eva Kicker and Katrin Panzitt:** Slices, Systems & Solutions: Exploring Ex Vivo Organ Culture Applications

C) **Freya Lyssy:** Next-Generation Cell Models: 3D Culture, Co-Culture & Analysis

Speakers Overview

Scientific Hosts

Rinner	Beate	Medical University of Graz
Deutsch	Alexander	Medical University of Graz

Speakers

Ausserlechner	Michael	Medical University of Innsbruck, Austria
Dengler	Michael	Medical University of Graz, Austria
Dorn	Isabel	Medical University of Graz, Austria
Egger	Gerda	Medical University of Vienna, Austria
Fessler	Johannes	Medical University of Graz, Austria
Fosselteder	Johannes	Medical University of Graz, Austria
Fuchs	Julia	Technical University of Graz, Austria
Häsler Gunnarsdottir	Sissy	University of Applied Sciences Salzburg, Austria
Goveas	Neha	STEMCELL Technologies
Jung	Oona	Ludwig-Boltzmann-Institut, Vienna, Austria
Karner	Christina	Medical University of Graz, Austria
Kicker	Eva	Medical University of Graz, Austria
Lavrentieva	Antonya	Technical University of Hannover, Germany
Lyssy	Freya	Medical University of Graz, Austria
Majid	Qasim	University of Graz, Austria
Magnarini	Giorgia	Medical University of Graz, Austria
Neuhaus	Winfried	Medical University of Vienna, Austria
Pansy	Katrin	Medical University of Graz, Austria
Panzitt	Katrin	Medical University of Graz, Austria
Polz	Mathias	Technical University of Graz, Austria
Posch	Wilfried	Medical University of Innsbruck, Austria
Poupardin	Rodolphe	PMU Vienna, Austria
Riederer	Monika	University of Applied Sciences Graz, Austria
Rienmüller	Theresa	Technical University of Graz, Austria
Rinner	Beate	Medical University of Graz, Austria
Sanjurjo	Carla	STEMCELL Technologies
Sopper	Sieghart	Medical University of Innsbruck, Austria
Stefani	Antri	ARCR Vienna, Austria
Strunk	Dirk	PMU and ARCR Vienna, Austria
Vejzovic	Djenana	Medical University of Graz, Austria
Viertler	Christian	Medical University of Graz, Austria
Wanzenböck	Heinz	TU Wien, Austria
Wolf	Martin	PMU and ARCR Vienna, Austria
Zwicklhuber	Janine	PMU and ARCR Vienna, Austria