



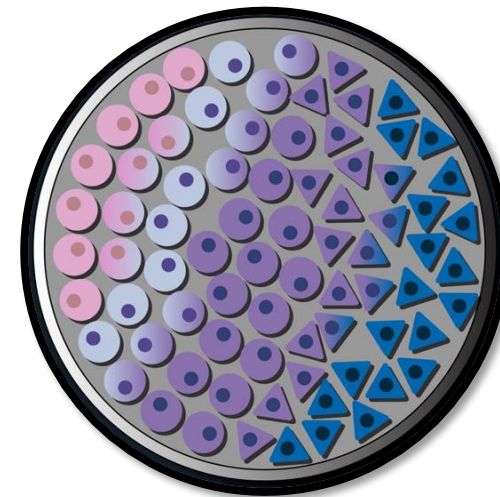
Universitäres Herzzentrum Graz



**Wissenschaftliche Leitung:**  
**Univ.-Prof. Dr. Andreas Zirlik**

**Veranstalter:**  
**WISSENSCHAFTLICHE GESELLSCHAFT FÜR**  
**INNOVATION IN DER HERZMEDIZIN e.V.**  
**(WGIH)**

**Program**  
**1<sup>st</sup> Graz Expert Meeting on Single Cell RNA**  
**Sequencing in Cardiovascular Science**  
**(GEMSeq)**



**Monday, 28<sup>th</sup> October 2019**  
**Lecture Hall Center E1, Medical University of Graz**



**Chair: Univ.-Prof. Dr. Akos Heinemann, Graz/Austria**  
**Univ.-Prof. Dr. Gerald Höfler, Graz/Austria**

- 09:00-09:15 Welcome and introduction into the topic  
*Andreas Zirlik, Graz/Austria*
- 09:15-10:00 Single cell phenotyping platforms for routine clinical use  
*Klaus Ley, La Jolla/USA*
- 10:00-10:30 Challenges and opportunities in analysing large scale single cell datasets  
*Dennis Wolf, Freiburg/Germany*

**Break**  
**10:30 - 11:00h**

**Chair: Univ.-Prof. Mag. Dr. Dagmar Kratky, Graz/Austria**  
**Prof. Dr. Karlheinz Peter, Melbourne/Australia**

- 11:00-11:30 B-cells in cardiovascular disease – what is the future for single cell RNA sequencing  
*Christoph Binder, Wien/Austria*
- 11:30-12:00 Macrophage diversity in cardiovascular defined by single cell RNA sequencing  
*Alma Zerneck-Madsen, Würzburg/Germany*
- 12:00-12:30 Immune cell census in atherosclerosis: have CyTOF and ScRNASeq taught us anything new?  
*Claudia Monaco, Oxford/Great Britain*

**Lunch break**  
**12:30 - 14:00h**

**Chair: Prof. Dr. Klaus Ley, La Jolla/USA**  
**Dr. Ingeborg Klymiuk, Graz/Austria**

- 14:00-14:30 The role of adaptive immunity in myocardial infarction - Implication for TCR sequencing?  
*Peter Rainer, Graz/Austria*
- 14:30-15:00 Single cell RNA sequencing following ischemia - reperfusion injury  
*Norbert Gerdes, Düsseldorf/Germany*
- 15:00-15:30 Cellular diversity in plaque rupture  
*Karlheinz Peter, Melbourne/Australia*