



Mini-Symposium

**Genetic variants of *Piezo1* - human red
blood cell physiology and evolution**

Tuesday, 05.03.2024

Irchel Campus, room Y10-G-03/04 and online via Zoom

- 13:00 – 13:05 Prof. Dr. med. **Frank Rühli** (Institute of Evolutionary Medicine, University of Zurich): *Welcoming words*
- 13:05 – 13:35 Dr. **Asya Makhro** (Institute of Evolutionary Medicine, University of Zurich): *“Piezo1 mechanosensitive channel evolution: implications for human health and biomedical research.”*
- 13:35 – 14:05 Prof. Dr. **Lars Kaestner** (Theoretical Medicine and Biosciences, Saarland University): *“The underestimated complexity of molecular signalling in red blood cells.”*
- 14:05 – 14:25 *Coffee break*
- 14:25 – 14:55 PD Dr. med. **Isabel Dorn** (Department of Blood Group Serology and Transfusion Medicine, Medical University of Graz): *“Cultured RBC from human iPSC as a tool to study different genetic variants of Piezo1.”*
- 14:55 – 15:25 Prof. Dr. **Stéphane Egée** (Station Biologique de Roscoff, Sorbonne University) : *“Piezo1 channel in erythrocytes: insights from pharmacological approaches and variant case studies.”*
- 15:25 – 15:45 *Coffee break*
- 15:45 – 16:15 Prof. Dr. **Richard van Wijk** (Central Diagnostic Laboratory, UMC Utrecht): *“The diverse hematological and clinical expression of PIEZO1 gain of function variants.”*
- 16:15 – 17:00 **Keynote talk:** Prof. Dr. **Marieke von Lindern** (Cell Biology Unit, Erasmus University Rotterdam): *“On shear stress and erythropoiesis.”*
- 17:00 – 18:00 *Apero*

All talks are public events and the participation is for free. Registration is required for the Zoom link only. Contact: PD Dr. Nicole Bender, nicole.bender@iem.uzh.ch; Webpage: www.iem.uzh.ch