

## SCHEDULE OVERVIEW

Tuesday, June 1<sup>st</sup>

|       |  |                  |
|-------|--|------------------|
| 09:00 | Welcoming words  | Lecture Hall     |
| 09:15 | Oral Session I: Biophysics                                     | Lecture Hall     |
| 10:30 | Coffee Break and<br>Poster Session A: Cancer & Cell physiology | Lobby & Poster A |
| 11:20 | Oral Session II: Lung physiology                               | Lecture Hall     |
| 12:10 | Lunch Break  |                  |
| 13:10 | Oral Session III: Tissue physiology                            | Lecture Hall     |
| 14:00 | Coffee Break and<br>Poster Session B: Biophysics               | Lobby & Poster B |
| 15:10 | Oral Session IV: Hypoxia & Inflammation                        | Lecture Hall     |
| 16:00 | Career Talk – Hardenberg Consulting                            | Lecture Hall     |
| 17:00 | End of Day 1   |                  |

Wednesday, June 2<sup>nd</sup>

|       |   |                  |
|-------|---|------------------|
| 9:00  | Oral Session V: Cancer & Cell physiology                | Lecture Hall     |
| 10:30 | Coffee Break and<br>Poster Session C: Tissue physiology | Lobby & Poster C |
| 11:30 | Oral Session VI: Neurophysiology                        | Lecture Hall     |
| 13:00 | Lunch Break   |                  |
| 14:00 | Imaging Workshop – Helena Jambor                        | Lecture Hall     |
| 15:00 | Closing & Award ceremony                                | Lecture Hall     |
| 15:30 | End of Day 2  |                  |

## DETAILED PROGRAM

**Tuesday, June 1<sup>st</sup>, 2021**

**09:00 Welcoming words**

**09:15 Oral Session I: Biophysics**

Chair: Gustavo Chaves (Nuremberg)

O-01 Bettina Kolen (Jülich)

*Vesicular glutamate transporters possess multifunctional properties due to large pores*

O-02 Julia Jeschke (Marburg)

*High throughput screening strategies for identifying novel PI(3,4)P2-sensitive PH-domains*

O-03 Juan David Sierra (Jülich)

*The role of the chloride-proton exchanger 3 ClC-3 in pain perception*

O-04 Britt Marie Huckschlag (Marburg)

*Analysis of the transport mode of SLC26A9 transporters*

**10:30 Coffee Break & Poster Session A: Cancer & Cell physiology**

Chair: Elena Czyrnik (Essen)

P-01 Micol Rugi (Münster)

*K2P2.1 channels and their possible role in the mechano-sensing and pH-sensing of pancreatic stellate cells.*

P-02 Celina Ablinger (Salzburg)

*The Cdk5 inhibitor Dinaciclib as a novel therapeutic approach for biliary tract cancer.*

P-03 Dino Bekric (Salzburg)

*Evaluation of Tazemetostat as a therapeutically relevant substance in biliary tract cancer*

**11:20 Oral Session II: Lung physiology**

Chair: Jana Kusch (Jena)

O-05 Alexander Perniß (Gießen)

*Bordetella pseudohinzii: a mouse specific pathogen as a new model to study respiratory infection*

O-06 Luca Todesca (Münster)

*Role of KCa3.1 channels in non-small cell lung cancer chemo resistance*

O-07 Wafaa Mahmoud (Gießen)

*CXCL13 defines a neuroendocrine cell phenotype in the murine trachea and lung*

**12:10 Lunch Break**

**13:10 Oral Session III: Tissue physiology**

Chair: Lisa Baaske (Leipzig)

O-08 Judith Radloff (Wien)

*Increased phosphate and calcium supply overcomes strain dependent resistance of chronic kidney disease progression after 5/6 nephrectomy*

O-09 Janine Moyer (Essen)

*Addressing progesterone and cAMP signalling pathways for decidualization induction of endometrial stromal cells of patients with endometriosis*

O-10 Ana Zupčić (Wien)

*Utilising Laser Capture Microdissection (LCM) for Low Abundant Gene Expression Analysis: Troubleshoot Overview*

**14:00 Coffee Break & Poster Session B: Biophysics**

Chair: Dominik Lenz (Marburg)

P-04 Stefan Kuschke (Jena)

*Competitive and selective inhibition of cyclic nucleotide-binding to single membrane proteins*

P-05 Francesca Semino (Heidelberg)

*Characterisation of a new SCN5A missense variant associated with Brugada syndrome*

P-06 Kateryna Ryndia (Jülich)

*Glutamate fluorescent nanosensors: engineering and characterization*

P-07 Katharina Foreman (Aachen)

*Characterizing DEG/ENaC ion Channels in Nematostella vectensis*

P-08 Moritz Lindner (Marburg)

*Ion channel modulators for the treatment Cone dystrophy with supernormal rod response? Evidence for novel interaction between K<sub>v</sub> channels across families with therapeutic implications*

P-09 Niklas Ohlwein (Nuremberg)

*Deciphering the pH-dependent gating of the human voltage-gated proton channel*

**15:10 Oral Session IV: Hypoxia & Inflammation**

Chair: Karolina Najder-Nalepa (Münster)

O-11 Leonie Oster (Münster)

*Extracellular pH affects leukotriene B4 production and neutrophil chemotaxis*

O-12 Stefanie Kather (Gießen)

*Counter regulation of cobalamin receptor expression in hypoco-balaminemic dogs with idiopathic inflammatory bowel disease*

O-13 Yoshiyuki Henning (Essen)

*Hypoxia-inducible factor-2 $\alpha$  aggravates oxidative stress-induced cell death of retinal pigment epithelium cells*

**16:00 Career Talk: Hardenberg Consulting**

Chair: Franziska Dengler (Wien)

**17:00 End of 1<sup>st</sup> day**

**Wednesday, June 2<sup>nd</sup>, 2021**

**09:00 Oral Session V: Cancer & Cell physiology**

Chair: Micol Rugi (Münster) & Felix Locker (Wien)

O-14 Jan Clusmann (Aachen)

*Acid-sensing ion channels induce necroptosis in glioblastoma stem cell lines*

O-15 Thorsten Loeck (Münster)

*Functional Expression of the Na<sup>+</sup>/Ca<sup>2+</sup>-Exchanger in Pancreatic Stellate Cells*

O-16 Elena Czyrnik (Essen)

*Analysis of stromal-epithelial interactions via soluble factors in prostatic cell cultures*

O-17 Alina Hagen (Gießen)

*Scalable production of equine platelet lysate for multipotent mesenchymal stromal cell cultur*

O-18 Michaela Melzer (Gießen)

*Rho/ROCK inhibition influences early TGF- $\beta$ -induced tenogenesis in mesenchymal stromal cells*

**10:30 Coffee Break & Poster Session C: Tissue physiology**

Chair: Yoshiyuki Henning (Essen)

P-10 Marina Volkert (Berlin)

*The Role of Clcn2 in the Murine Zona*

P-11 Hoang An Dinh (Berlin)

*Calcium Signals in Murine Glomerulosa Cells of Cacna1h Knock-out Mice*

P-12 Pedro Felipe Malacarne (Frankfurt)

*Cytochrome P450 reductase maintains proper vessel and cardiac function through endothelial cell crosstalk*

P-13 Sebastian Lobmann (Nuremberg)

*Inhibition of the respiratory burst by an NADPH oxidase inhibitor*

P-14 Michal Sitina (Brno)

*The optimal hematocrit under the constraint of constant cardiac power*

**11:30 Oral Session VI: Neurophysiology**

Chair: Andreas Ritzau-Jost (Leipzig) & Corinna Rösseler (Aachen)

O-19 Kristina Lippmann (Leipzig)

*Differential cellular contribution to subicular sharp wave ripples after status epilepticus*

O-20 Srijeeta Nag Biswas (Aachen)

*Guidance for neurites provides a novel approach for in vitro innervated skin model based on Anisogel*

O-21 Leonie Kinder (Marburg)

*Expression signatures of intrinsically photosensitive retinal ganglion cell subtypes in the mouse retina*

O-22 Thomas Kaas (Jena)

*Somatostatin-positive Interneurons Promote Neural Synchrony in the Neonatal Hippocampus in vitro*

O-23 Francisco López-Murcia (Göttingen)

*Complexin is essential for the rapid formation of stably primed synaptic vesicles in CNS synapses*

**13:00 Lunch Break**

**14:00 Imaging Workshop: Helena Jambor**

Chair: Dominik Lenz (Marburg)

**15:00 Award Ceremony and Closing Remarks**