Joint meeting with the Austrian Physiological Society (APS) & Life Sciences Switzerland (LS<sup>2</sup>) Physiology

AND THE PARTY

DEUTSCHE PHYSIOLOGISCHE GESELLSCHAFT

### 21. - 23.09.2023 | BERLIN

Thursday, 21 September 2023, 9:00 a.m. - 11:00 a.m.

#### OS 01 | Ion Transport: From Physiology to Pathophysiology

**Chairs:** Markus Bleich (Kiel); Robert Szulcek (Berlin, Germany) **Presentations:** 9:00 am Glucocorticoids improve contractility and excitation-contraction coupling in human failing myocardial slices OS 01-01 Benedikt Pfeilschifter (Erlangen, Germany) Cystic fibrosis transmembrane conductance regulator modulators attenuate platelet activation and aggregation in blood of healthy donors and COVID-19 patients 9:15 am OS 01-02 Erik Asmus (Berlin, Germany) Vascular Smooth Muscle BK Channel Activation by Cardiotonic Steroids Is Mediated by Na/K-ATPase, Na/Ca exchanger and Src-Kinase 9:30 am OS 01-03 Anastasia Pyanova (Augsburg, Germany) The anion channel TMEM16a/Ano1 modulates agonist-activated CFTR activity, but does not function as an apical anion channel in colonic epithelium from cystic fibrosis patients 9:45 am OS 01-04 and healthy individuals **Ursula Seidler** (Hannover, Germany) OS 01-05 Claudin 14 gradually replaces claudin 16 to finetune renal calcium transport 10:00 am Rozemarijn E. van der Veen (Berlin, Germany) Renal Basolateral Potassium Channels in Salt Handling and Blood Pressure Control 10:15 am OS 01-06 Alexander Staruschenko (Tampa, USA) 10:30 am OS 01-07 Role of transmembrane serine protease 2 (TMPRSS2) in proteolytic processing and activation of the epithelial sodium channel (ENaC) in kidney and lung epithelia Florian Sure (Erlangen, Germany) T- and L-type calcium channels maintain calcium oscillations in the murine zona glomerulosa 10:45 am OS 01-08 Hoang A. Dinh (Berlin, Germany)

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#### 21. - 23.09.2023 | BERLIN

Thursday, 21 September 2023, 9:00 a.m. - 11:00 a.m.

S 01 | Plasticity of the Cardiac Dyad: From Single Contractions to Remodeling in Disease

Chairs:	: Thomas Seidel (Erlangen, Germany); William Louch (Oslo, Norway)		
Presentat	ions:		
9:00 am	S 01-01	The cardiac dyad as a central signalling structure in myocyte calcium handling <b>Christian Soeller</b> (Bern, Switzerland)	
9:30 am	S 01-02	Plasticity of dyadic structure and function William E. Louch (Oslo, Norway)	
9:48 am	S 01-03	Ultrastructural reconstruction of the dyad during cardiomyocyte contraction <b>Joachim Greiner</b> (Freiburg, Germany)	
10:06 am	S 01-04	The ultrastructure of elementary calcium signals as revealed by realtime nanoscopy <b>Qinghai Tian</b> (Homburg, Germany)	
10:24 am	S 01-05	Mechanisms and Pathways of Cardiomyocyte T-Tubule Loss Thomas Seidel (Erlangen, Germany)	
10:42 am	S 01-06	Dysferlin stabilizes the cardiac dyad and mediates hypertrophic remodeling in left-ventricular pressure overload <b>Nora J. Paulke</b> (Göttingen, Germany)	

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# 21. - 23.09.2023 | BERLIN

Thursday, 21 September 2023, 9:00 a.m. - 11:00 a.m.

S 02 | Novel GPCR-based optical tools to investigate organ function and behaviour

Chairs:	Tobias Brügmann (Göttingen, Germany); Simon Wiegert (Mannheim, Germany)		
Presentati	ons:		
9:00 am	S 02-01	A new family of genetically-encoded catecholamines indicators Tommaso Patriarchi (Zurich, Switzerland)	
9:25 am	S 02-02	Illuminating the brain - genetically encoded sensors to explore neuronal circuitries <b>Olivia A. Masseck</b> (Bremen, Germany)	
9:50 am	S 02-03	Synchronization of neuronal networks and modulation of synaptic plasticity by non-visual opsin variants. <b>Stefan Herlitze</b> (Bochum, Germany)	
10:15 am	S 02-04	Optogenetic stimulation of $G_s$ signaling to investigate cardiac arrhythmia mechanisms <b>Vanessa Dusend</b> (Bonn, Germany)	
10:35 am	S 02-05	Finding new OptoGPCRs in nature: broadening the wavelength spectra and dynamic ranges <b>Alina Pushkarev</b> (Berlin, Germany)	

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### 21. - 23.09.2023 | BERLIN

Thursday, 21 September 2023, 9:00 a.m. - 11:00 a.m.

# S 03 | Novel approaches in understanding mechanisms of deep brain stimulation in movement disorders (Symposium of CRC 1270 ELAINE Electrically active Implants)

Chairs: Rüdiger Köhling (Rostock, Germany)

#### **Presentations:**

9:00 am	S 03-01	Synaptic dynamics underlying deep brain stimulation - translating rat to human single cell recordings <b>Leon Amadeus Steiner</b> (Berlin, Germany)
9:24 am	S 03-02	Electrophysiological Investigations on the mechanisms of DBS in a dystonia model <b>Denise Franz</b> (Rostock, Germany)
9:48 am	S 03-03	Human neural cell models of dystonia <b>Philipp Capetian</b> (Würzburg, Germany)
10:12 am	S 03-04	Neurophysiological biomarkers to optimize deep brain stimulation in movement disorders Karlo Lizarraga (Rochester, USA)
10:36 am	S 03-05	Mathematical Modelling of Deep Brain Stimulation Jens Starke (Rostock, Germany)

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### 21. - 23.09.2023 | BERLIN

Thursday, 21 September 2023, 11:20 a.m. - 12:50 p.m.

#### **OC | Opening & Award Ceremony**

**Chairs:** 

**Presentations:** 

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### 21. - 23.09.2023 | BERLIN

Thursday, 21 September 2023, 1:50 p.m. - 2:35 p.m.

# PL 01 | Development and evolution of the human neocortex – neural stem cells, human-specific genes, and human-specific protein variants

Chairs: Jörg Geiger (Berlin)

#### **Presentations:**

1:50 pm PL 01 Development and evolution of the human neocortex – neural stem cells, human-specific genes, and human-specific protein variants **Wieland B. Huttner** (Dresden, Germany)

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### 21. - 23.09.2023 | BERLIN

Thursday, 21 September 2023, 3:00 p.m. - 4:45 p.m.

#### **OS 02 | Best Abstract Session**

Chairs:		Gründer (Aachen, Germany); Wolfgang A. Linke (Münster, Germany); Dominik Lenz-Schwab (Marburg, Germany); Friederike Stumpff (Potsdam, Germany); Jörg Geiger Germany)
Presenta	tions:	
3:00 pm	OS 02-01	Renal compartment-specific proteasome alterations in a murine type-2 diabetes model <b>Lukas Blume</b> (Hamburg, Germany)
3:15 pm	OS 02-02	Role of pericardial cells in myocardial infarction. <b>Olesia Omelchenko</b> (Düsseldorf, Germany)
3:30 pm	OS 02-03	Relaxin' cortical circuits: Understanding the effect of relaxin on synaptic transmission within cortical circuits Sadat Hodzic (Planegg-Martinsried, Germany)
3:45 pm	OS 02-04	Gain-of-function mutations in <i>CLCN6</i> cause early-onset neurodegeneration Maya M. Polovitskaya (Berlin, Germany)
4:00 pm	OS 02-05	Renin versus erythropoietin – the endocrine plasticity of renal vascular smooth muscle cells is influenced by the prolyl-4-hydroxylases 2 and 3 Katharina AE. Broeker (Regensburg, Germany)
4:15 pm	OS 02-06	Alterations in extracellular vesicle microRNAs drive loss of endothelial homeostasis in chronic kidney disease Szandor Simmons (Berlin, Germany)
4:30 pm	OS 02-07	An ultrasensitive genetically encoded voltage indicator reveals the endogenous electrical activity of non-excitable cells Philipp Rühl (Jena, Germany)

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#### 21. - 23.09.2023 | BERLIN

Thursday, 21 September 2023, 3:00 p.m. - 5:00 p.m.

#### OS 03 | Molecular & Cellular Neurosciences

Chairs:	s: Andreas Draguhn (Heidelberg); Christian Rosenmund (Berlin, Germany)	
Presentations:		
3:00 pm	OS 03-01	Synergistic and distinct roles of GluA1-receptors in the dorsal and ventral hippocampus in schizophrenia-related sensory and cognitive processing Sampath Kumar Kapanaiah (Ulm, Germany)
3:15 pm	OS 03-02	Postsynaptic plasticity of cholinergic synapses underlies the induction and expression of appetitive and familiarity memories in <i>Drosophila</i> Carlotta Pribbenow (Berlin, Germany)
3:30 pm	OS 03-03	Parkinson's related alterations in the α-synuclein protein network <b>Edgar R. Kramer</b> (Plymouth, UK)
3:45 pm	OS 03-04	Human iPSC-derived neurons with reliable synapses and large presynaptic action potentials <b>Torsten Bullmann</b> (Leipzig, Germany)
4:00 pm	OS 03-05	Observing single Dynamin-mediated fission events in TIRFM-amenable synapses Sai Krishnan (Münster, Germany)
4:15 pm	OS 03-06	A Noelin-organized extracellular network of proteins required for constitutive and context-dependent anchoring of AMPA-receptors. Jochen Schwenk (Freiburg, Germany)
4:30 pm	OS 03-07	The lipid transporter ORP2 regulates synaptic neurotransmitter release via two distinct mechanisms Marion Weber-Boyvat (Berlin, Germany)
4:45 pm	OS 03-08	TRPV1-dependent nocifensive behavior in larval zebrafish reveals thermal hyposensitivity as a sensory marker of diabetic peripheral neuropathy Jonathan R. Husk (Mannheim, Germany)

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#### 21. - 23.09.2023 | BERLIN

Thursday, 21 September 2023, 3:00 p.m. - 5:00 p.m.

#### OS 04 | At the Heart of the Matter: Cardiac Physiology and Pathophysiology

Chairs:	s: Mauro Siragusa (Frankfurt am Main, Germany); Tobias Brügmann (Göttingen, Germany)		
Presenta	esentations:		
3:00 pm	OS 04-01	In left heart disease, elastin degradation impairs pulmonary arterial biomechanics and promotes pulmonary hypertension Mariya M. Kucherenko (Berlin, Germany)	
3:15 pm	OS 04-02	Pro-regenerative Feature of Fibroblasts During Early Postnatal Phase Mona Malek Mohammadi (Bonn, Germany)	
3:30 pm	OS 04-03	Cardiac fatty acid oxidation after myocardial infarction is restored by insulin-like growth factor 1 treatment. Andre Heinen (Düsseldorf, Germany)	
3:45 pm	OS 04-04	Electrical auricular tragus stimulation induces release of circulating cardioprotective factors in healthy human volunteers. Helmut Lieder (Essen, Germany)	
4:00 pm	OS 04-05	Hypertrophic Cardiomyopathy mutation R723G enhances <i>MYH7-</i> mRNA stability Judith Montag (Hannover, Germany)	
4:15 pm	OS 04-06	Dysfunction of human cardiac ventricular myosin due to light chain-2 mutation D166V associated with Hypertrophic cardiomyopathy (HCM) Faris Mehdawi (Hannover, Germany)	
4:30 pm	OS 04-07	Neonatal model of pulmonary artery banding – a unique model to investigate right ventricular plasticity and intraventricular crosstalk in neonatal mice Fabian Ebach (Bonn, Germany)	
4:45 pm	OS 04-08	Implementing peer-assisted cardiac ultrasound demonstration in the practical heart physiology class Vivian Blechschmidt (Mannheim, Germany)	

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### 21. - 23.09.2023 | BERLIN

Thursday, 21 September 2023, 3:00 p.m. - 5:00 p.m.

S 04 | Ion channels in pulmonary physiology and disease

Chairs: Wolfgang Kübler (Berlin); Manfred Frick (Ulm, Germany)

#### **Presentations:**

- 3:00 pm S 04-01 Ion channels in pulmonary physiology and disease Andrea Olschewski (Graz, Austria)
- 3:25 pm S 04-02 In-depth characterization of CFTR variants for personalized medicine approaches in cystic fibrosis **Nicoletta Pedemonte** (Genoa, Italy)
- 3:50 pm S 04-03 CFTR and lung endothelial barrier regulation in respiratory infections Lasti Erfinanda (Berlin, Germany)
- 4:10 pm S 04-04 K<sub>ca</sub>3.1 channels in non-small cell lung cancer progression Albrecht Schwab (Münster, Germany)
- 4:35 pm S 04-05 Endolysosomal ion channels in lung physiology and pathophysiology **Christian Grimm** (Munich, Germany)

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Thursday, 21 September 2023, 3:00 p.m. - 5:00 p.m.

#### **S 05 | Decoding the fine control of interneurons in behavior**

Chairs:	Xians	shu Bai (Homburg, Germany); Marlene Bartos (Freiburg, Germany)
Presenta	tions:	
3:00 pm	S 05-01	The role of dentate gyrus interneuron types in pattern separation Marlene Bartos (Freiburg, Germany)
3:30 pm	S 05-02	Long-term stable and context specific spatial representation in somatostatin interneurons and granule cells of the dentate gyrus Antje Kilias (Freiburg, Germany)
4:00 pm	S 05-03	Cortical Vasoactive Intestinal Polypeptide (VIP)-expressing Interneurons and the Broadcasting of Salience Francesco Ferraguti (Innsbruck, Austria)
4:30 pm	S 05-04	Bi-directional communication between oligodendrocyte precursors and interneurons defines interneuron activity and cognition <b>Xianshu Bai</b> (Homburg, Germany)

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### 21. - 23.09.2023 | BERLIN

Thursday, 21 September 2023, 5:00 p.m. - 7:00 p.m.

#### A | Poster Session A

**Chairs:** 

**Presentations:** 

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### 21. - 23.09.2023 | BERLIN

Thursday, 21 September 2023, 5:00 p.m. - 7:00 p.m.

#### A 01 | K+ & CI- Transport Across Membranes

Chairs:	Olga	Garaschuk (Tübingen, Germany); Heimo Ehmke (Hamburg, Germany)		
Presenta	tions:	ions:		
5:00 pm	A 01-01	Molecular Basis of TREK K <sub>2P</sub> Channel Gating <b>Marcus Schewe</b> (Kiel, Germany)		
5:01 pm	A 01-02	Essential role of conserved alanine residues in CLC channel proteostasis <b>Chia-Ying You</b> (Taipei City, Taiwan)		
5:02 pm	A 01-03	Exploring basics of ion channel gating in viral proteins Indra Schroeder (Jena, Germany)		
5:03 pm	A 01-04	Understanding the role of individual subunits in concatenated heteromeric Kv2.1/Kv6.4 channels. <b>Debanjan Tewari</b> (Jena, Germany)		
5:04 pm	A 01-05	Mechanism of voltage sensing in Ca <sup>2+</sup> - and voltage-activated K <sup>+</sup> channels <b>Ignacio Segura</b> (Jülich, Germany)		
5:05 pm	A 01-06	Unraveling the role of the $Ca^{2+}$ -activated K <sup>+</sup> channel K <sub>ca</sub> 3.1 in pancreatic ductal adenocarcinoma <b>Benjamin Soret</b> (Villeneuve d'Ascq, France)		
5:06 pm	A 01-07	The natural polyphenolic compound $\alpha$ -Mangostin modulates diverse potassium channel classes Marianne Musinszki (Kiel, Germany)		
5:07 pm	A 01-08	K <sub>ca</sub> channels as amplifiers of TRPV4-mediated pulmonary edema formation <b>Mei Li</b> (Berlin, Germany)		

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5:08 pm	A 01-09	The Role of <i>Clcn2</i> in the Murine Zona Glomerulosa Marina Volkert (Berlin, Germany)
5:09 pm	A 01-10	Activation of TMEM16A channels by methionine oxidation Rama A. Hussein (Jena, Germany)
5:10 pm	A 01-11	Current clamp Ussing chamber measurements show different effects of modulators depending on CFTR mutation <b>Vanessa Mete</b> (Münster, Germany)
5:11 pm	A 01-12	Analysis of the transport mechanism of SLC26A3 and SLC26A6 Annalisa Questino (Marburg, Germany)
5:12 pm	A 01-13	The p53-p21 DREAM signaling pathway regulates the TMEM206 ion channel <b>Korollus Melek</b> (Bern, Switzerland)
5:13 pm	A 01-14	Regulation of selectivity filter gating in the model system of minimal viral potassium channels <b>Nils Drexler</b> (Jena, Germany)
5:14 pm	A 01-15	Exploring the pore structure of THIK1 channels (KCNK13) with blockers and chemical cysteine modification <b>Bisher Eymsh</b> (Kiel, Germany)

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Thursday, 21 September 2023, 5:00 p.m. - 7:00 p.m.

#### A 02 | Non-Selective Cation Channels

Chairs:	Stefan Hallermann (Leipzig, Germany); Thomas Jentsch (Berlin, Germany)			
Presenta	Presentations:			
5:00 pm	A 02-01	HCN channels in the context of a potential <i>Retinitis Pigmentosa</i> therapy Jana Kusch (Jena, Germany)		
5:01 pm	A 02-02	Voltage and time dependent gating of endo-lysosomal hTPC2 channels Leon-Patrick Sprenger (Hannover, Germany)		
5:02 pm	A 02-03	Identification of residues in TRPM3 channels important for the agonist action of pregnenolone sulfate Nuwar Harb (Marburg, Germany)		
5:03 pm	A 02-04	On the subunit arrangement in heterotetrameric olfactory CNG channels Taulant Kukaj (Jena, Germany)		
5:04 pm	A 02-05	Hearing loss mutations in human P2X2 receptor channels Christian Sattler (Jena, Germany)		
5:05 pm	A 02-06	Salivary gland dysfunction is a major factor driving the phenotype of claudin-10b deficient mice Luca Meoli (Berlin, Germany)		
5:06 pm	A 02-07	Selectivity filter mutation N648A alters voltage-dependence of endo-lysosomal mTPC1 channels Oemer Kocdölü (Hannover, Germany)		
5:07 pm	A 02-08	Ionic selectivity of the permeation pathways in TRPM3 channels Homa G. Samani (Marburg, Germany)		
5:08 pm	A 02-09	Negative charges in the S2-S3 linker are involved in voltage-dependent gating of hyperpolarization-activated, cyclic nucleotide-modulated channels Inga Saß (Jena, Germany)		

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5:09 pm	A 02-10	The bile acid-sensitive ion channel (BASIC) affects the morphology of pancreatic islets and glucagon secretion <b>Jingyu Yang</b> (Aachen, Germany)
5:10 pm	A 02-11	Selectively targeting rod CNG channels for limiting photoreceptor degeneration in <i>retinitis pigmentosa</i> <b>Sandeep Kesh</b> (Jena, Germany)
5:11 pm	A 02-12	Human monoclonal autoantibody blocks N-methyl-D-aspartate receptors within seconds Jing Yu-Strzelczyk (Würuburg, Germany)
5:12 pm	A 02-13	Relating Ligand Binding to Activation Gating in Human P2X Receptors by Using a Novel Fluorescent ATP Derivative <b>Xenia Brünings</b> (Jena, Germany)
5:13 pm	A 02-14	Modulation of Acid-Sensing Ion Channel 1a by Thyroid Hormones Lu Qin (Aachen, Germany)
5:14 pm	A 02-15	The α5 subunit in nAChRs contributes to nicotine induced proliferation and migration in human cancer cells Irida Papapostolou (Bern, Switzerland)
5:15 pm	A 02-16	Cyclic Adenosine Monophosphate Enhances Electrophysiological Properties and Gap Junction Neoformation in Human Induced Pluripotent Stem Cell-Derived Cardiomyocytes Jan-Mischa Sauter (Heidelberg, Germany)

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# 21. - 23.09.2023 | BERLIN

Thursday, 21 September 2023, 5:00 p.m. - 7:00 p.m.

#### A 03 | Hypoxy & HIF

Chairs:	Carsten Scholz (Greifswald, Germany); Andrea Olschewski (Graz, Austria)				
Presenta	Presentations:				
5:00 pm	A 03-01	Molecular uncovering of reduced Hypoxia Inducible Factor-1α content in hereditary hemorrhagic telangiectasia <b>Lars Kleine-Möllhoff</b> (Essen, Germany)			
5:01 pm	A 03-02	Deciphering the role of hypoxia-inducible factors in ferroptotic cell death in a cell culture model of age-related macular degeneration Annika Schubert (Essen, Germany)			
5:02 pm	A 03-03	Expression analysis and functional characterization of an oxygen-binding protein in an unconventional physiological model system Carina Osterhof (Fribourg, Switzerland)			
5:03 pm	A 03-04	Investigation of a crosstalk between hypoxia-inducible factors and mechanistic target of rapamycin in retinal pigment epithelium cells Gesa Weißenberg (Essen, Germany)			
5:04 pm	A 03-05	The Effect of isoleucine preconditioning on neuroprotection via HIF-1α signaling after oxygen-glucose deprivation insult <b>Xujin Yao</b> (Essen, Germany)			
5:05 pm	A 03-06	The Functional relationship between the Hypoxia inducible factor 1alpha and primary cilia in neuronal cells Pascal F. Schneider (Essen, Germany)			
5:06 pm	A 03-07	Investigating the Role of HIF-1 $\alpha$ in Radiation Sensitivity and Metabolic Changes in Murine Hepatocyte-Derived Cells <b>Akram Hamidi</b> (Essen, Germany)			
5:07 pm	A 03-08	Cigarette smoke extract causes a bioenergetic crisis in retinal pigment epithelium cells involving the destabilization of hypoxia-inducible factor-1α Yoshiyuki Henning (Essen, Germany)			
5:08 pm	A 03-09	Hypoxia-Inducible Factor-1 and p53 – friends or foes in the colorectal carcinoma? <b>Stefanie Saoub</b> (Essen, Germany)			

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5:09 pm A 03-10 Hypoxia induced activation of Mineralocorticoid receptor alters metabolism in the hepatocytes that can contribute to the progression of liver cirrhosis. **Mohammad M. Mohib** (Halle, Germany)

5:10 pm A 03-11 Investigating the Role of Hypoxia-induced CD73 in HIV Persistence and Transcription **Jouly Sbeiti** (Essen, Germany)

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#### A 04 | Mechanisms of Behavior & Cognition

C	hairs: Marlene Bartos (Freiburg, Germany); Torfi Sigurdsson (Frankfurt, Germany)			
Presentations:				
5:	00 pm	A 04-01	Effects of Cav1.3-inhibition on DA SN neuron in vivo firing and explore – exploit behavior in mice Johannes Boehm (Frankfurt am Main, Germany)	
5:	01 pm	A 04-02	Orthogonal coding of food and voluntary exercise by VTA dopamine neurons Hanna E. van den Munkhof (Cologne, Germany)	
5:	02 pm	A 04-03	Binge eating-induced olfactory cortex suppression promotes feeding Friedrich Johenning (Berlin, Germany)	
5:	03 pm	A 04-04	Parvalbumin expressing excitatory neurons of the subiculum specifically project to areas involved in spatial navigation. <b>Gilda Baccini</b> (Kiel, Germany)	
5:	04 pm	A 04-05	"The role of the prefrontal cortex in the expression of learned safety and fear" Ceylan-Scarlett Steinecke (Kiel, Germany)	
5:	05 pm	A 04-06	Silencing of Cholecystokinin-expressing interneurons in the hippocampal CA1 region impairs social recognition memory Kira Balueva (Kiel, Germany)	
5:	06 pm	A 04-07	Self-paced movement initiation and termination lead to complementary modulations of dopamine neuron firing rates in the medio-lateral axis of the substantia nigra Daniela Schenkel (Frankfurt am Main, Germany)	
5:	07 pm	A 04-08	Olfactory memory consolidation in the mushroom body output layer in <i>Drosophila melanogaster</i> <b>Tania Fernandez del Valle Alquicira</b> (Berlin, Germany)	
5:	08 pm	A 04-09	Monitoring memory performance after artificial induction of memory in Drosophila <b>Sridhar Jagannathan</b> (Berlin, Germany)	

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- 5:09 pm A 04-10 A highly versatile chemotaxis assay for investigating associative learning in undergraduate laboratories using the nematode *Caenorhabditis elegans* **Daniel-Cosmin Marcu** (Potsdam, Germany)
- 5:10 pm A 04-11 A virtual-reality based experimental setup for contact-free measurements of behavioural readouts of the lizard *Anolis carolinensis* **Niels Röhrdanz** (Kiel, Germany)
- 5:11 pm A 04-12 Time-invariant prefrontal activity patterns during repeated exposure to intense threat **Ole Christian Sylte** (Freiburg, Germany)

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Thursday, 21 September 2023, 5:00 p.m. - 7:00 p.m.

#### A 05 | Pathophysiology of Neurons & Networks

Chairs:	irs: Thomas Mittmann (Mainz, Germany); Simon Wiegert (Mannheim, Germany)			
Presentations:				
5:00 pm	A 05-01	Mechanisms of the olfactory dysfunction in the APPswe/PS1 <sub>G384A</sub> mouse model of Alzheimer's disease <b>Wen-Yu Tzeng</b> (Tübingen, Germany)		
5:01 pm	A 05-02	Investigating BACE1's role in mechanosensation and sensory processing Sarina Höller (Erlangen, Germany)		
5:02 pm	A 05-03	Effects of pubertal stress on affective behavior and GABAergic inhibition in dentate gyrus of adult mice <b>Sriity Melley Sadanandan</b> (Erlangen, Germany)		
5:03 pm	A 05-04	Neurodegenerative tauopathy in biallelic SPRED2 loss-of-function mouse models elicited by autophagosomal dysfunction Sina Gredy (Wuerzburg, Germany)		
5:04 pm	A 05-05	Heavy adolescent drinking potentiates neuronal ethanol response later in life: involvement of GIRK current and activin receptor signaling Fang Zheng (Erlangen, Germany)		
5:05 pm	A 05-06	Heterogenous Distribution of cGMP in Neurons and Astrocytes in the awake brain of a mouse model of Alzheimer's disease Aileen Jehle (Tuebingen, Germany)		
5:06 pm	A 05-07	Pronounced histopathology but unaltered and heterogeneous Cortical Spreading Depolarization (CSD) in a mouse model of Alzheimer's disease Frank Richter (Jena, Germany)		
5:07 pm	A 05-08	Shutdown of NHE1 is the primary event at presynapses upon chemically induced ischemia to avoid neurotoxicity Martin Kahms (Muenster, Germany)		

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5:08 pm	A 05-09	Conserved potential of the neuropeptide Galanin to inhibit Cortical Spreading Depolarization in rodents <b>Frank Richter</b> (Jena, Germany)
5:09 pm	A 05-10	Hippocampal spiking activity during Local Field Potential events in a Scn2a epilepsy model. <b>Daniil Kirianov</b> (Bonn, Germany)
5:10 pm	A 05-11	Healthy male first-year students do not experience stress in the new environment as evidenced by mental chronometry <b>Ana Chikviladze</b> (Tbilisi, Georgia)
5:11 pm	A 05-12	The oxygen-sensing pathway in neural cells controls intrinsic long-term neuroregeneration after ischemic stroke <b>Pinar Kilic</b> (Heidelberg, Germany)

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DEUTSCHE PHYSIOLOGISCHE GESELLSCHAFT

### 21. - 23.09.2023 | BERLIN

Thursday, 21 September 2023, 5:00 p.m. - 7:00 p.m.

#### A 06 | Lung & Right Heart

Chairs:	Danie	iela Wenzel (Bochum, Germany); Wolfgang Kübler (Berlin, Germany)			
Presenta	Presentations:				
5:00 pm	A 06-01	A role for syntaxin 3 in airway mucus secretion <b>Hanna Meid</b> (Ulm, Germany)			
5:01 pm	A 06-02	Role of beta arrestin 1 in respiratory pathophysiology Annika Simon (Bochum, Germany)			
5:02 pm	A 06-03	The Impact of SARS-CoV-2 M Protein on Tight Junctions in Lung Epithelial Cells Lara A. Gutjahr (Ulm, Germany)			
5:03 pm	A 06-04	The relationship between air pollution and fractional exhaled nitric oxide in primary school children after walking roadside and park routes at school pick-up time. Scarlett Moloney (Ipswich, UK)			
5:04 pm	A 06-05	Caspase-6 is necessary and specific for morphological adaptation specifically to shear stresses in pulmonary artery endothelial cells in vitro Corey Wittig (Berlin, Germany)			
5:05 pm	A 06-06	Modelling ER stress in Alveolar Type 2 epithelial cells to study early-stage events in Idiopathic pulmonary fibrosis Louisa Vinkovic (Ulm, Germany)			
5:06 pm	A 06-07	Knockout of the complex III subunit <i>Uqcrh</i> causes respiratory impairment and cardiac contractile dysfunction Marten Szibor (Jena, Germany)			
5:07 pm	A 06-08	Does cell-type specific silencing of MAO-B interfere with the development of right ventricle (RV) hypertrophy or RV failure in pulmonary hypertension? Paulin Brosinsky (Giessen, Germany)			
5:08 pm	A 06-09	The ubiquitin E3 ligase SIAH2 contributes to right ventricular hypertrophy through direct interaction with the apelin receptor <b>Nicole S. Molenda</b> (Giessen, Germany)			

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- 5:09 pm A 06-10 Bacterial toxins as selective modulators of excessive monocyte recruitment and differentiation in lung repair **Robin J. Schönegg** (Ulm, Germany)
- 5:10 pm A 06-11 Altered pressure-induced right ventricular cardiac remodeling in a heterozygous titin deletion model **Kimberley Stein** (Bochum, Germany)
- 5:11 pm A 06-12 Reversibility of vascular remodeling and right ventricular hypertrophy in pulmonary hypertension with left heart disease in a rat model of aortic banding/debanding **Donghai Tian** (Berlin, Germany)
- 5:12 pm A 06-13 Comparison of the stage-dependent mitochondrial changes in response to pressure overload between the diseased right and left ventricle in the rat Ling Li (Giessen, Germany)

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Thursday, 21 September 2023, 5:00 p.m. - 7:00 p.m.

#### A 07 | Renal /Gastrointestinal

Chairs:	Richard Warth (Regensburg, Germany); Catherine Meyer-Schwesinger (Hamburg, Germany)				
Presenta	Presentations:				
5:00 pm	A 07-01	Renal acetylcholinesterase as a regulator of kidney function <b>Sabrina Habel</b> (Regensburg, Germany)			
5:01 pm	A 07-02	Cyclosporin A-associated constriction of renal vasculature is associated with microvascular remodeling Cem Erdogan (Berlin, Germany)			
5:02 pm	A 07-03	Piezo1 inhibition blunts glomerular hyperfiltration in response to acute hyperglycemia in mice <b>Pratik H. Khedkar</b> (Berlin, Germany)			
5:03 pm	A 07-04	Inhibition of renoprotective angiotensin I-converting enzyme 2 axis diminishes protection against aristolochic acid nephropathy in mice with reduced renal angiotensin I-converting enzyme enzyme Annett Juretzko (Greifswald, Germany)			
5:04 pm	A 07-05	Autoregulation of renal blood flow in wildtype and P2X1-purinoreceptor-deficient mice Armin Just (Freiburg, Germany)			
5:05 pm	A 07-06	Androglobin knockout leads to endocrine imbalance and hyperkalemia under high-potassium diet <b>Miguel Correia</b> (Fribourg, Switzerland)			
5:06 pm	A 07-07	Inflammatory diarrhea in inflammatory bowel disease (IBD) patients may be due to defective terminal differentiation of absorptive enterocytes in the inflamed colon Anna Elisabeth Seidler (Hannover, Germany)			
5:07 pm	A 07-08	Organoids as a long-term approach for ruminal epithelial cell culture Saeed Khomeijani Farahani (Berlin, Germany)			

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- 5:08 pm A 07-09 Effect of secretin stimulation on pendrin (*Slc26a4*) in murine *ex vivo* kidney slices **Kimberley Dreger** (Hamburg, Germany)
- 5:09 pm A 07-10 Cannabidiol effects on gastrointestinal tight junction proteins **Salah Amasheh** (Berlin, Germany)
- 5:10 pm A 07-11 Characterization of a ruminal 3D epithelial cell model **Friederike Stumpff** (Potsdam, Germany)

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#### 21. - 23.09.2023 | BERLIN

Thursday, 21 September 2023, 5:00 p.m. - 7:00 p.m.

#### A 08 | Cell Biology & Signal Transduction

Chairs:	s: Ingrid Fleming (Frankfurt, Germany); Thomas Korff (Heidelberg, Germany)			
Presentations:				
5:00 pm	A 08-01	The role secreted modular calcium binding protein (SMOC1) on resolution of inflammation and atherosclerosis development Urün Ukan (Frankfurt am Main, Germany)		
5:01 pm	A 08-02	Interaction of Connexin 43 with SHP-2 augments paxillin de-phosphorylation and controls focal adhesion turnover during migration Kristin Pogoda (Augsburg, Germany)		
5:02 pm	A 08-03	PKC regulates αKlotho gene expression in MDCK and NRK-52E cells Julia Vogt (Stuttgart, Germany)		
5:03 pm	A 08-04	Direct interaction of endothelial progenitor cells (EPC) and endothelial cells (EC) induces the formation of angiogenic networks Christina Steininger (Augsburg, Germany)		
5:04 pm	A 08-05	Visualization and quantification of spatial inhomogeneities in confluent endothelial cell migration Anselm Hohlstamm (Dresden, Germany)		
5:05 pm	A 08-06	The tyrosine phosphatase SHP-2 is important for endothelial barrier function by promoting expression of endothelial tight junctional proteins Hanna Mannell (Augsburg, Germany)		
5:06 pm	A 08-07	Patient age-related changes of redox parameters in female subdermal human adipose-derived stem cells (hASCs) Anne Bernhardt (Gießen, Germany)		
5:07 pm	A 08-08	Cadmium triggers reactive oxygen species, autophagy and the lysosomal ion channel TRPML1 in human renal cells. Kaya Elisa Witte (Bielefeld, Germany)		
5:08 pm	A 08-09	Nuclear eNOS interacts with and S-nitrosates RNA-binding proteins to modulate endothelial gene expression. Xiaozhu Zhou (Frankfurt am Main, Germany)		

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- 5:09 pm A 08-10 NoxO1 and Erbin- a cooperation to control EGF-signaling **Dana Maureen Hebchen** (Frankfurt, Germany)
- 5:10 pm A 08-11 The pro-inflammatory response of embryoid bodies differentiated from mouse embryonic stem cells towards lipopolysaccharide from gram-negative bacteria Jennifer Scharmacher (Gießen, Germany)
- 5:11 pm A 08-12 The high proinflammatory secretome is a unique hallmark of Interferon-γ- and Tumor Necrosis Factor-induced senescence in melanoma cells **Thomas Wieder** (Tübingen, Germany)

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# 21. - 23.09.2023 | BERLIN

Thursday, 21 September 2023, 5:00 p.m. - 7:00 p.m.

#### A 09 | Blood & Immune Cells

Chairs:	Ivan	Bogeski (Göttingen, Germany); Heinrich Sauer (Giessen, Germany)		
Presenta	Presentations:			
5:00 pm	A 09-01	Effects of propofol on the Hypoxia-inducible factor pathway in human leukocytes under physiological oxygen conditions <b>Jessica Hüssen</b> (Essen, Germany)		
5:01 pm	A 09-02	TGF- $\beta$ leads to HIF-1 $\alpha$ degradation by increasing PHD2 in human leukocytes <b>Isabel Ruf</b> (Essen, Germany)		
5:02 pm	A 09-03	Hypoxia inducible factor in a commonly used mouse model of Hereditary Hemorrhagic Telangiectasia and affected human leukocytes Anna Wrobeln (Essen, Germany)		
5:03 pm	A 09-04	The role of the hypoxia inducible factor 1 alpha in myeloid derived immune cells in urinary bladder infection and cancer Clara Roggendorf (Essen, Germany)		
5:04 pm	A 09-05	Oxygen tension plays a major role in TH1 cell generation Inga Vorwick (Essen, Germany)		
5:05 pm	A 09-06	Effects of the ciliary proteasome on the function of hypoxia-inducible factors at primary cilia Stephan Schieren (Essen, Germany)		
5:06 pm	A 09-07	Modulation of myeloid cell efferocytosis regulates pathological retinal angiogenesis in the mouse oxygen-induced retinopathy model Anne Klotzsche - von Ameln (Dresden, Germany)		
5:07 pm	A 09-08	?Comprehensive in silico and functional studies of genetic variants identified in patients with erythrocytosis Darko Maric (Fribourg, Switzerland)		
5:08 pm	A 09-09	Interactions between SARS-CoV protein 6 and importins – effect on the STAT pathway Johanna-Theres Borutta (Luebeck, Germany)		

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- 5:09 pm A 09-10 Functional analysis of the LncRNA *N342419* in human monocytes Lisa M. Weiss (Frankfurt, Germany)
- 5:10 pm A 09-11 Hereditary hemorrhagic telangiectasia and its consequences for the immune response a ciliary view **Sebastian Kromat** (Essen, Germany)
- 5:11 pm A 09-12 Red blood cell substitutes: From structure to function **Katja B. Ferenz** (Essen, Germany)

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### 21. - 23.09.2023 | BERLIN

Thursday, 21 September 2023, 7:00 p.m. - 9:00 p.m.

#### **WR | Welcome Reception**

**Chairs:** 

**Presentations:** 

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DEUTSCHE PHYSIOLOGISCHE GESELLSCHAFT

### 21. - 23.09.2023 | BERLIN

Friday, 22 September 2023, 8:30 a.m. - 10:00 a.m.

#### **GA | General Assembly**

**Chairs:** 

**Presentations:** 

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#### 21. - 23.09.2023 | BERLIN

Friday, 22 September 2023, 10:00 a.m. - 12:00 p.m.

S 06 | Artificial Intelligence in Physiology... Status, Challenges, Perspectives

Chairs:	Chairs: Ralf Mrowka (Jena, Germany); Torfi Sigurdsson (Frankfurt, Germany)		
Presentations:			
10:00 am	S 06-01	Al in Clinical Brain Research Moritz Seiler (Berlin, Germany)	
10:25 am	S 06-02	Photonic Data Science: Linking vibrational spectral data to (bio-)medial information using machine learning and chemometrics <b>Thomas Bocklitz</b> (Bayreuth, Germany)	
10:45 am	S 06-03	Explainable AI and its application to molecular data Grégoire Montavon (Berlin, Germany)	
11:10 am	S 06-04	In the Scientific Method we Trust: A Hypothesis-centric Approach to Artificial Intelligence in Biomedicine <b>Axel Mosig</b> (Bochum, Germany)	
11:35 am	S 06-05	The ethics of AI in medicine: From a local to a global context, and back <b>Tijs Vandemeulebroucke</b> (Bonn, Germany)	

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### 21. - 23.09.2023 | BERLIN

Friday, 22 September 2023, 10:00 a.m. - 12:00 p.m.

#### S 07 | Cellular Communications: When inflammation meets thrombosis

Chairs:	Rober	t Szulcek (Berlin, Germany); Grazyna Kwapiszewska (Graz, Austria)		
Presentati	Presentations:			
10:00 am	S 07-01	Signaling mechanisms of the hemostatic system <b>Wolfram Ruf</b> (Mainz, Germany)		
10:24 am	S 07-02	Inflammation and thrombosis, translational perspective Thomas Renné (Hamburg, Germany)		
10:48 am	S 07-03	Inflammation-induced leukocyte extravasation occurs at specific hotspot at the vascular wall. Jaap van Buul (Amsterdam, Netherlands)		
11:12 am	S 07-04	New insights into the role of hemostatic proteases in lung diseases - translational approach Malgorzata Wygrecka (Giessen, Germany)		
11:36 am	S 07-05	TGF-beta driven thromboinflammation and fibrosis: importance for Chronic Thromboembolic Pulmonary Hypertension <b>Katrin Schäfer</b> (Mainz, Germany)		

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Friday, 22 September 2023, 10:00 a.m. - 12:00 p.m.

S 08 | Synaptic mechanisms of autoimmune encephalitis

**Chairs:** Stefan Hallermann (Leipzig); Christian Geis (Jena, Germany) **Presentations:** Anti-NMDAR autoantibodies disrupt hippocampal structural plasticity and place cell dynamics 10:00 am S 08-01 Sabine Liebscher (Martinsried, Germany) Blocking human N-methyl-D-aspartate receptors within seconds with a monoclonal autoantibody S 08-02 10:20 am Manfred Heckmann (Würzburg, Germany) Pathogenic effects of GABA<sub>B</sub> receptor autoantibodies on neuronal signaling and memory consolidation 10:40 am S 08-03 Josefine Sell (Jena, Germany) Glycine receptor autoantibodies and their pathological effects on glycinergic neurotransmission 11:00 am S 08-04 Carmen Villmann (Würzburg, Germany) Human monoclonal LGI1 autoantibodies increase neuronal excitability 11:20 am S 08-05 **Dietmar Schmitz** (Berlin, Germany) Effects of anti-LGI1 human monoclonal antibodies on mouse behavior, ultrastructure, and ion channel distribution at synapses and axon initial segments 11:40 am S 08-06 Ryuichi Shigemoto (Klosterneuburg, Austria)

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Friday, 22 September 2023, 10:00 a.m. - 12:00 p.m.

S 09 | The Tight Junction: Barrier, Channel, and More

**Chairs:** Dorothee Günzel (Berlin, Germany); Markus Bleich (Kiel) **Presentations:** 10:00 am S 09-01 How to seal tricellular corners Mikio Furuse (Okazaki, Japan) New molecular and functional insight into the invertebrate septate junctions 10:40 am S 09-02 Sima Jonusaite (Kiel, Germany) Functionality of claudin-3 in proximal and distal kidney tubules 11:00 am S 09-03 Susanne Milatz (Kiel, Germany) Na<sup>+</sup> transport is impaired via claudin-8 and ENaC dysregulation in Campylobacter infection. 11:20 am S 09-04 Roland Bücker (Berlin, Germany) 11:40 am Angulins and tricellulin: critical players for molecular passage in intestinal epithelia S 09-05 Susanne M. Krug (Berlin, Germany)

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# 21. - 23.09.2023 | BERLIN

Friday, 22 September 2023, 10:00 a.m. - 12:00 p.m.

S 10 | Advances in the study of physiological and pathophysiological aspects of organic cation transporters

Chairs:	Carsten Wagner	(Zurich,	Switzerland);	Markus	Rinschen	(Hamburg)

#### **Presentations:**

10:00 am	S 10-Intro	Welcome address Giuliano Ciarimboli (Münster, Germany)
10:10 am	S 10-01	Organic cation transporters: from structure to function Harald H. Sitte (Vienna, Austria)
10:35 am	S 10-02	Studying organic cation transport using kidneys on chip systems <b>Roos Masereeuw</b> (Utrecht, Netherlands)
11:05 am	S 10-03	The fruit fly as a model for investigation of solute carrier transporters <b>Anne T. Nies</b> (Stuttgart, Germany)
11:30 am	S 10-04	The role of lipids in the post-translational regulation and function of OCT2 <b>Michele Visentin</b> (Zurich, Switzerland)
11:45 am	S 10-05	Species differences in organic cation transporters Marleen J. Meyer-Tönnies (Greifswald, Germany)

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Friday, 22 September 2023, 12:20 p.m. - 1:05 p.m.

PL 02 | The roles of glia and pericytes in early Alzheimer's disease

Chairs: Jörg Geiger (Berlin)

**Presentations:** 

12:20 pm PL 02 The roles of glia and pericytes in early Alzheimer's disease **David Attwell** (London, UK)

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# 21. - 23.09.2023 | BERLIN

Friday, 22 September 2023, 2:05 p.m. - 2:50 p.m.

#### PL 03 | The physiology of Lysosomal Ion Channels

Chairs: Jörg Geiger (Berlin)

#### **Presentations:**

2:05 pm PL 03 The Physiology of Lysosomal Ion Channels **Dejian Ren** (Philadelphia, USA)

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# 21. - 23.09.2023 | BERLIN

Friday, 22 September 2023, 3:30 p.m. - 5:30 p.m.

#### **OS 05 | Vascular Reactivity**

Chairs:	Jana Grune (Berlin, Germany); Claudia Göttsch (Aachen, Germany)		
Presenta	tions:		
3:30 pm	OS 05-01	Endothelial basement membrane remodeling regulates smooth muscle cell hyperplasia in pulmonary hypertension due to left heart disease <b>Netra Nambiar Veetil</b> (Berlin, Germany)	
3:45 pm	OS 05-02	Piezo1 in Pulmonary Arterial Smooth Muscle Cells – a critical player for the Development of Pulmonary Hypertension Fenja Knoepp (Giessen, Germany)	
4:00 pm	OS 05-03	The role of the Secreted Modular Calcium Binding protein 1 (SMOC1) in endothelial-to-mesenchymal transition and myocardial infarction Fredy Delgado Lagos (Frankfurt am main, Germany)	
4:15 pm	OS 05-04	The long non-coding RNA <i>HIF1α-AS1</i> forms DNA:DNA:RNA triplexes to regulate endothelial cell function <b>Matthias S. Leisegang</b> (Frankfurt am Main, Germany)	
4:30 pm	OS 05-05	Differential cGMP-reactivity of large and small vessels of mesenteric and renal vascular tree Lubomir T. Lubomirov (Neuruppin, Brandenburg an der Havel, Germany)	
4:45 pm	OS 05-06	Impaired vasomotor function in mesenteric arteries of Ossabaw minipigs with a genetic predisposition to, but without the phenotype of the metabolic syndrome Chantal Eickelmann (Essen, Germany)	
5:00 pm	OS 05-07	Vascular smooth muscle epidermal growth factor receptor increases obesity-induced vascular alterations and renal end organ damage. Barbara Schreier (Halle, Germany)	
5:15 pm	OS 05-08	The role of promyelocytic leukemia protein in vascular inflammation and atherosclerosis Gustav Steinemann (Berlin, Germany)	

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Friday, 22 September 2023, 3:30 p.m. - 5:30 p.m.

#### OS 06 | Kidney & Gastrointestinal Physiology

Chairs:	Armin	Armin Just (Freiburg, Germany); Anna-Lena Forst (Regensburg, Germany)		
Presenta	tions:			
3:30 pm	OS 06-01	Analysis of molecules perturbed by SGLT2 inhibition reveals kidney reconfiguration and metabolic interorgan communication. Markus Rinschen (Aarhus, Denmark)		
3:45 pm	OS 06-02	TYK2 is required for LIF-induced augmentation of vascular calcification Mehdi Razazian (Linz, Austria)		
4:00 pm	OS 06-03	Effects of creatine supplementation on expression and protein aggregate formation in a mouse model of GATM-associated kidney disease Allein Plain (Regensburg, Germany)		
4:15 pm	OS 06-04	Optical and quantitative analysis of diclofenac-induced changes of cellular and nuclear morphology in renal organoids <b>Ralf Mrowka</b> (Jena, Germany)		
4:30 pm	OS 06-05	Dysregulation of renal polyamine levels after kidney injury <b>Tobias Sieckmann</b> (Berlin, Germany)		
4:45 pm	OS 06-06	Activation of soluble guanylate cyclase attenuates the progression from acute kidney injury to chronic kidney disease in a rat model Falk B. Lichtenberger (Berlin, Germany)		
5:00 pm	OS 06-07	The enriched expression of aquaporin-2 in the renal inner medulla is mediated by increased chromatin accessibility Kristina Engel (Halle, Germany)		
5:15 pm	OS 06-08	Role of NHE1 in renal function <b>Timo Rieg</b> (Tampa, USA)		

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Friday, 22 September 2023, 3:30 p.m. - 5:30 p.m.

#### **OS 07 | Ion Transport: From Biophysics to Physiology**

Chairs:	Marcus Schewe (Kiel, Germany); Michael Fromm (Berlin, Germany)		
Presenta	tions:		
3:30 pm	OS 07-01	Mechanosensitive ion channels are key sensors and transducers for durotaxis in pancreatic stellate cells <b>Zoltan Pethö</b> (Münster, Germany)	
3:45 pm	OS 07-02	Electrophysiological characterization of the interaction between secreted protein 1 (SEP1) and acid-sensing ion channel 1a (ASIC1a) Sven Kuspiel (Aachen, Germany)	
4:00 pm	OS 07-03	Learning About Properties of the Voltage-Gated Proton Channel from in silico Methods Christophe Jardin (Nuremberg, Germany)	
4:15 pm	OS 07-04	An integrated microsystems approach towards enhanced resolution and multimodal single-molecule analysis of ion-channels and membrane pores Jan C. Behrends (Freiburg, Germany)	
4:30 pm	OS 07-05	Bayesian filtering for macroscopic Hidden Markov Models (HMM): Potential and limits of minimal informative priors to improve parameter inference Jan L. Münch (Jena, Germany)	
4:45 pm	OS 07-06	The TRPV4 channel mutants E278K and N302Y show differential effects on cell adhesion and cytoplasmic calcium levels in HEK 293 cells Heinrich Brinkmeier (Greifswald, Germany)	
5:00 pm	OS 07-07	Proton-gated anion transport governs macropinosome shrinkage Mariia Zeziulia (Berlin, Germany)	
5:15 pm	OS 07-08	cAMP binding to resting pacemaker channels – a single molecule approach in native membranes <b>Stefan Kuschke</b> (Jena, Germany)	

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#### OS 08 | Network & System Neuroscience

Chairs:	: Alexey Ponomarenko (Erlangen, Germany); Volkmar Lessmann (Magdeburg, Germany)		
Presenta	tions:		
3:30 pm	OS 08-01	Enhanced <i>in vivo</i> firing in chemogenetically identified dopamine midbrain neurons projecting to dorsal medial striatum in freely moving 22q11.2 mice, a genetic model of Schizophrenia Solmaz Bikas (Frankfurt am Main, Germany)	
3:45 pm	OS 08-02	Subfield-specific interneuron circuits govern the hippocampal response to novelty Aurore Cazala (Freiburg, Germany)	
4:00 pm	OS 08-03	Human layer 2-3 pyramidal neurons are functionally diverse and differentially embedded in the local network Franz Xaver Mittermaier (Berlin, Germany)	
4:15 pm	OS 08-04	A persistent prefrontal reference frame across time and task rules Hannah Muysers (Freiburg im Breisgau, Germany)	
4:30 pm	OS 08-05	Bacterial infection and behavior: The role of theAMPs and neuromodulation in brain-body communication Yujie Wang (Bonn, Germany)	
4:45 pm	OS 08-06	BDNF-expressing neurons of the lateral hypothalamus limit feeding in an obesogenic environment Anne Petzold (Cologne, Germany)	
5:00 pm	OS 08-07	Global neuron population dynamics predict goal approach <b>Yangfan Peng</b> (Oxford, UK)	
5:15 pm	OS 08-08	DBS in GPi modulates spontaneous cerebellar activity in a dystonic hamster. Fabiana S. Kragelund (Rostock, Germany)	

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Friday, 22 September 2023, 3:30 p.m. - 5:30 p.m.

#### OS 09 | Oxygen, Metabolism & Inflamation

Chairs:	Stepha	<b>n Speier</b> (Dresden, Germany); Anna Wrobeln (Essen, Germany)
Presenta	tions:	
3:30 pm	OS 09-01	The Omega Amidase NIT2 is a novel redox-sensitive key regulator of glutamine metabolism in endothelial cells <b>Flávia Rezende</b> (Frankfurt, Germany)
3:45 pm	OS 09-02	Hypoxia induces MEK/ERK signaling via primary cilia - An unexpected function of the hypoxia-inducible factor-2alpha Tristan Leu (Essen, Germany)
4:00 pm	OS 09-03	Differential miR expression during macrophage differentiation Gerhild Euler (Gießen, Germany)
4:15 pm	OS 09-04	Androglobin, a chimeric mammalian globin, is associated with ciliogenesis and sonic hedgehog signaling <b>Anna Keppner</b> (Fribourg, Switzerland)
4:30 pm	OS 09-05	5000 m Above Sea Level: Experiencing Integrative Exercise Physiology Oliver H. Wittekindt (Ulm, Germany)
4:45 pm	OS 09-06	B lymphocyte autoimmunity in patients with mitral valve disease and secondary pulmonary hypertension <b>Teresa C. Funk-Hilsdorf</b> (Berlin, Germany)
5:00 pm	OS 09-07	cAMP-dependent Modulation of Calcium Oscillations in Pancreatic Beta Cells Johannes U. Pfabe (Vienna, Austria)
5:15 pm	OS 09-08	The loss of gap junctions in excitable cells promotes mitochondrial stress-induced longevity in Caenorhabditis elegans <b>Karl E. Busch</b> (Potsdam, Germany)

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## 21. - 23.09.2023 | BERLIN

Friday, 22 September 2023, 5:00 p.m. - 6:30 p.m.

PUBLIC | Was sollen wir tun bei dieser Hitze - Die Physiologie von Thermoregulation und Hitzestress

Chairs: Jörg Geiger (Berlin)

**Presentations:** 

5:00 pm PL 01 Was sollen wir tun bei dieser Hitze - Die Physiologie von Thermoregulation und Hitzestress **Pontus Persson** (Berlin, Germany)

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### 21. - 23.09.2023 | BERLIN

Friday, 22 September 2023, 5:30 p.m. - 7:30 p.m.

#### **B** | Poster Session B

**Chairs:** 

**Presentations:** 

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#### **B 01 | Sodium or Proton Channels & Sodium-dependent Transporters**

Chairs:	Boris Musset (Nürnberg, Germany); Albrecht Schwab (Münster, Germany)		
Presenta	tions:		
5:30 pm	B 01-01	Identification of a binding site for the small molecule activator S3969 in the β-subunit of the human epithelial sodium channel (ENaC) Alexandr Ilyaskin (Erlangen, Germany)	
5:31 pm	B 01-02	Mg-Protoporphyrin IX is a potent and specific inhibitor of human cardiac voltage-gated sodium channels Mahdi Jamili (Jena, Germany)	
5:32 pm	B 01-03	Light-sensitive cardiac sodium channels for action potential studies in <i>Xenopus laevis</i> oocytes and HEK293 cells <b>Xhevat Berisha</b> (Jena, Germany)	
5:33 pm	B 01-04	Biophysical properties of sodium channels in dopaminergic midbrain neurons defined by axonal projections. Marle Jahnke (Frankfurt Am Main, Germany)	
5:34 pm	B 01-05	Sodium/hydrogen exchanger 8 affects proliferation and migration of HT29 human colon epithelial cells via modulation of intracellular pH Ju Wang (Hannover, Germany)	
5:35 pm	B 01-06	Evaluation of Mg-protoporphyrin IX as a specific inhibitor for Na <sub>v</sub> 1.5 channels in non-excitable human cells <b>Mahdi Jamili</b> (Jena, Germany)	
5:36 pm	B 01-07	Expression of the Na <sup>+</sup> /H <sup>+</sup> exchanger NHE8 affects single cell behaviour of human mucus-forming colorectal carcinoma cells (HT29-MTX) Merle Gatz (Hannover, Germany)	
5:37 pm	B 01-08	Response of glioblastoma cells to acidic stress: aberrant regulation of ion dynamics and its impact on intracellular pH Jakob Vanek (Aachen, Germany)	

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5:38 pm	B 01-09	Structural and functional diversity of novel voltage-gated proton channels Gustavo Chaves (Nuremberg, Germany)
5:39 pm	B 01-10	Generation und electrophysiological analysis of a gain-of-function polycystin-1/polycystin-2 heteromeric ion channel <b>Tobias Staudner</b> (Erlangen, Germany)
5:40 pm	B 01-11	The sodium-coupled neutral amino acid transporter SNAT2 promotes alveolar fluid clearance and regulates alveolar epithelial cell homeostasis in acute lung injury/ARDS. Juliana Falivene (Berlin, Germany)
5:41 pm	B 01-12	Zymosan activates the toll like receptors TLR2 and TLR5 Ralf Mrowka (Jena, Germany)
5:42 pm	B 01-13	The organic cation transporter 3 (OCT3) as a histamine transporter in granulocytes Moritz Pernecker (Münster, Germany)
5:43 pm	B 01-14	The voltage-gated proton channel discovers its family Boris Musset (Nürnberg, Germany)

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#### **B 02 | Calcium Dependet Signaling & Methods**

Chairs:	Philipp Sasse (Bonn, Germany); Eric Metzen (Essen, Germany)		
Presenta	tions:		
5:30 pm	B 02-01	Vasopressin modulates calcium oscillations in adrenal cortex via V1a receptor Hoang A. Dinh (Berlin, Germany)	
5:31 pm	B 02-02	Calcium oscillations regulate endocytotic albumin uptake in subdermal adipose stem cells derived from human patients of different age. Tanvir Morshed (Gießen, Germany)	
5:32 pm	B 02-03	Pacemaker currents of R5 neurons and their role in sensory filtering in <i>Drosophila melanogaster</i> Anatoli Ender (Berlin, Germany)	
5:33 pm	B 02-04	South american rattlesnake toxin blocks high-voltage-activated calcium channels Markus Eicheldinger (Jülich, Germany)	
5:34 pm	B 02-05	A novel state-dependent inhibitor of N-type channel (DP-2) Orally Available to Relieve Neuropathic Pain Gustavo A. Guzman (Jülich, Germany)	
5:35 pm	B 02-06	<i>Cacna1d<sup>/le772Met/+</sup></i> mice with PASNA syndrome <b>Gabriel Stölting</b> (Berlin, Germany)	
5:36 pm	B 02-07	Orai1 modulates vitamin C-dependent collagen release from pancreatic stellate cells Rieke Schleinhege (Münster, Germany)	
5:37 pm	B 02-08	Automatic detection, localization, and classification of Ca <sup>2+</sup> release events in cardiomyocytes with a deep learning-based approach <b>Prisca Dotti</b> (Bern, Switzerland)	

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- 5:38 pm B 02-09 A polymer partitioning probe of aerolysin's astonishing asymmetry **Jan C. Behrends** (Freiburg, Germany)
- 5:39 pm B 02-10 Evaluating whole cell and single channel data from Patch Clamp experiments with Igor Pro Friederike Stumpff (Potsdam, Germany)
- 5:40 pm B 02-11 Brightness optimization of an ultrasensitive genetically encoded voltage indicator Anagha G. Nair (Jena, Germany)

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#### **B 03 | Endocrinol Metabolism**

Chairs:	Marja	n Slak Rupnik (Wien, Austria); David Hoogewijs (Freiburg, Switzerland)
Presenta	tions:	
5:30 pm	B 03-01	Use of Pancreas Tissue Slices for the in Situ Study of the Endocrine Pancreas in Health and Disease Christian M. Cohrs (Dresden, Germany)
5:31 pm	B 03-02	Does Regular Physical Activity generally reduce Basal Energy Expenditure? Arguments against an Alleged Paradigm Change Dieter Böning (Berlin, Germany)
5:32 pm	B 03-03	Impact of extracellular glucose and glutamine concentrations on tumor cell metabolism Christina M. Baumbach (Halle/Saale, Germany)
5:33 pm	B 03-04	Local and systemic sex differences of islet of Langerhans physiology in glucose homeostasis <b>Celina Funke</b> (Dresden, Germany)
5:34 pm	B 03-05	Thyroid Hormone-Induced Expression of Na <sup>+</sup> /K <sup>+</sup> -ATPase in Neural Cells Depends on Na <sup>+</sup> Influx Heiko M. Lesslich (Bochum, Germany)
5:35 pm	B 03-06	Nutritional regulation by leptin receptor-expressing neurons in the lateral hypothalamus under healthy and anorectic conditions Rebecca Figge-Schlensok (Cologne, Germany)
5:36 pm	B 03-07	Longitudinal In Vivo Imaging of Islet Physiology and Pathophysiology in the Anterior Chamber of the Mouse Eye Farid Abdallah (Dresden, Germany)
5:37 pm	B 03-08	Dysregulation of hypothalamic-pituitary-thyroid hormone secretion in SPRED3- deficient mice Luisa Haas (Wuerzburg, Germany)

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#### **B 04 | Cell Biology & Signal Transduction**

Chairs:	Michael Gekle (Halle (Saale), Germany); Karl Emanuel Busch (Potsdam, Germany)		
Presenta	tions:		
5:30 pm	B 04-01	Detection of citrulline modification in histone peptides using biological nanopore <b>Priyanka Jain</b> (Freiburg im Breisgau, Germany)	
5:31 pm	B 04-02	Mapping the signaling network of macrophage chemotactic navigation using knockout mouse models Peter J. Hanley (Potsdam, Germany)	
5:32 pm	B 04-03	High throughput screening strategies for identifying novel PI(3,4)P <sub>2</sub> -sensitive PH domains Julia Jeschke (Marburg, Germany)	
5:33 pm	B 04-04	Determinants of plasma membrane targeting of mammalian voltage-sensing phosphatase (VSP) Wencai Zhao (Marburg, Germany)	
5:34 pm	B 04-05	Using Bayesian inference to integrate biological data and mathematical modeling to assess cell cycle dynamics: How does the soluble adenylate cyclase ADCY10 control the cell cycle of endothelial cells? Mats L. Moskopp (Dresden, Germany)	
5:35 pm	B 04-06	Gene-COCOA: comparative co-expression analysis focussed on a gene of interest Simonida Zehr (Frankfurt, Germany)	
5:36 pm	B 04-07	Simultaneous Single Photon Counting and Ion Current Readout from Free-Standing Lipid Bilayers - Membranes under Investigation <b>Tobias Ensslen</b> (Freiburg i.Br., Germany)	
5:37 pm	B 04-08	FRET measurements of claudins in fixed cells – an inappropriate approach Catrin Przibylla-Diop (Kiel, Germany)	

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- 5:38 pm B 04-09 Modern open-source data analysis platform specialized for beta cells. **Johannes U. Pfabe** (Vienna, Austria)
- 5:39 pm B 04-10 The SUMO isopeptidase SENP2-regulated muscle function is disrupted in chemotherapy-induced cachexia Arnab Nayak (Hannover, Germany)

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#### **B 05 | Cardiac Function 1**

Chairs:	S: Wolfgang A. Linke (Münster); Axel Gödecke (Düsseldorf, Germany)				
Presenta	Presentations:				
5:30 pm	B 05-01	Endo- to epicardial gradient of the transverse tubular system in failing and non-failing human hearts <b>Zafar Iqbal</b> (Erlangen, Germany)			
5:31 pm	B 05-02	Metabolic reprogramming of cardiac cells differentiated from mouse embryonic stem cells and rat cardiac myoblasts exposed to diabetic cell culture media Leopold Stabbauer (Gießen, Germany)			
5:32 pm	B 05-03	Endothelial deletion of Secreted Modular Calcium Binding protein 1 (SMOC1) increased damage in response to myocardial infarction in mice. Bardia Amirmiran (Frankfurt am Main, Germany)			
5:33 pm	B 05-04	Mild uncoupling in mitochondria by UCP2 does not generally affect functional recovery of rodent hearts at the early reperfusion Laureen Czech (Giessen, Germany)			
5:34 pm	B 05-05	Protective effects of a cytosolic mitochondrial variant of renin (renin-b) in doxorubicin-induced cell damage in cardiac cells. Miriam Hartmann (Greifswald, Germany)			
5:35 pm	B 05-06	Treatment with hyperbaric oxygen reveals spatiotemporal plasticity of activity and composition of OXPHOS complexes in the porcine heart Marten Szibor (Jena, Germany)			
5:36 pm	B 05-07	Regulation of mitochondrial calcium transient decay in atrial and ventricular cardiomyocytes Victoria Hammer (Marburg, Germany)			
5:37 pm	B 05-08	Growth differentiation factor 6 promotes pulmonary arterial remodeling in pulmonary hypertension due to left heart disease <b>Qiuhua Li</b> (Berlin, Germany)			
5:38 pm	B 05-09	A kinase anchoring protein 7 $\gamma$ / $\delta$ knockout mice have a normal cardiac function <b>Karoline Morhenn</b> (Hamburg, Germany)			

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5:39 pm	B 05-10	Remote ischemic conditioning and electrical auricular tragus stimulation in humans – vagal projection to the heart? Umut Paket (Essen, Germany)
5:40 pm	B 05-11	Progressive attenuation of ST-segment elevation with ischemic preconditioning cycles does not reflect cardioprotection in Ossabaw minipigs. Virginie Adam (Essen, Germany)
5:41 pm	B 05-12	Teaching medical students the QT interval and its autonomous regulation in a practical ECG course in physiology Alexander P. Schwoerer (Hamburg, Germany)
5:42 pm	B 05-13	Practical course in Physiology in midwifery science master's curricula - more than just a practical course for medical students? Peter Dreischer (Tübingen, Germany)

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#### B 06 | Renal

Chairs:	Frank Schweda (Regensburg, Germany); Dorothee Günzel (Berlin, Germany)		
Presentations:			
5:30 pm	B 06-01	Blood pressure increase upon high dietary potassium supplementation is not associated with renal sodium retention or plasma volume expansion Helga Vitzthum (Hamburg, Germany)	
5:31 pm	B 06-02	Mineralocorticoid receptor-dependent and -independent renal outer medullary K <sup>+</sup> channel activity in mouse distal nephron Viatcheslav Nesterov (Erlangen, Germany)	
5:32 pm	B 06-03	AQP1 expression in the thick ascending limb of Henle is reduced in the absence of claudin-10 Markus Bleich (Kiel, Germany)	
5:33 pm	B 06-04	Expression of TMEM16J modulates release of interleukin-2 and controls intracellular calcium signaling in Jurkat T- lymphocytes Rainer Schreiber (Regensburg, Germany)	
5:34 pm	B 06-05	Protein analysis and activity-based protein profiling in human extracellular vesicles <b>Sarah Frömbling</b> (Hamburg, Germany)	
5:35 pm	B 06-06	Stimulation of NO-sGC-cGMP signaling prevents vasoconstriction in ex vivo acute kidney injury model Minze Xu (Berlin, Germany)	
5:36 pm	B 06-07	Cadmium-induced mitochondrial membrane fluidity changes cause respiratory supercomplex disruption and peroxide production in the kidney. Nadiya Romanova (Bielefeld, Germany)	
5:37 pm	B 06-08	Spatial resolution of gene expression by single cell sequencing analysis in a mouse model of kidney transplantation and immunosuppression Robert Labes (Berlin, Germany)	

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- 5:38 pm B 06-09 Medullary *Nfat5* deregulation results in substantial kidney fibrosis **Vera A. Kulow** (Berlin, Germany)
- 5:39 pm B 06-10 Can podocytic extracellular vesicles affect the metabolism of tubular epithelial cells? **Johannes Jägers** (Essen, Germany)
- 5:40 pm B 06-11 Renal expression of natriuretic peptide receptors and their protective effects in proximal tubular cells Elena-Sofia HeinI (Regensburg, Germany)

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#### **B 07 | Vascular Function**

Chairs:	rs: Markus Hecker (Heidelberg, Germany); Flavia Rezende (Frankfurt, Germany)				
Present	Presentations:				
5:30 pm	B 07-01	Modulation of the endothelial SWI/SNF chromatin remodelling complex by long non-coding RNAs James A. Oo (Frankfurt, Germany)			
5:31 pm	B 07-02	Role of RhoA-kinase and ribosomal S6-kinase II pathways in the regulation of vascular contractility of senescent human renal and mesenteric arteries Olaf Grisk (Neuruppin, Germany)			
5:32 pm	B 07-03	Piezo1 is a mediator of endothelial nanomechanics and vascular inflammation Johanna-Theres Borutta (Luebeck, Germany)			
5:33 pm	B 07-04	Mathematical model for diffusion and enzymatic degradation of AMP in rat aorta predicts concentration gradients of nucleotides/nucleosides in vessel wall Arvid Pietsch (Dresden, Germany)			
5:34 pm	B 07-05	The nuclear Corepressor NCoR1 limits endothelial angiogenic function Tom Teichmann (Frankfurt, Germany)			
5:35 pm	B 07-06	Magnesium-Oxygen-Therapy – a physiological effective treatment of patients with Long Covid and Post Vac Elfriede Leniger-Follert (Hagen, Germany)			
5:36 pm	B 07-07	Red blood cells mediate endothelial glycocalyx and actin adaptation in response to flow speed variation Max Dietrich (Lübeck, Germany)			
5:37 pm	B 07-08	Role of lipid mediator in lymphangiogenesis and lymphatic maturation <b>Zumer Naeem</b> (Frankfurt, Germany)			
5:38 pm	B 07-09	Deletion of the Soluble Epoxide Hydrolase Impairs Intestinal Angiogenesis and Lacteal development Yanis Afir (Frankfurt am Main, Germany)			

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5:39 pm	B 07-10	Activation of free fatty acid receptors modulates pulmonary vascular tone <i>ex vivo</i> Alexander Seidinger (Bochum, Germany)
5:40 pm	B 07-11	Role of A2B receptor activation in tone regulation of the pulmonary vasculature Jana Lewandowski (Bochum, Germany)
5:41 pm	B 07-12	Modulation of purinergic contractions of murine vas deferens by carbachol <b>Pei Yee Wong</b> (Dundalk, Ireland)
5:42 pm	B 07-13	Non-coding genetic variation contributes to human physiology and pathology via disrupted RNA:DNA:DNA triple helix formation <b>Timothy Warwick</b> (Frankfurt am Main, Germany)
5:43 pm	B 07-14	Uremic toxin-induced damage of the endothelial surface is mediated by the Aryl hydrocarbon receptor (AhR) in CKD Nadina Kompalla (Lübeck, Germany)
5:44 pm	B 07-15	Endothelial cytochrome P450 reductase-derived cholesterol limits angiogenesis Pedro Malacarne (Frankfurt, Germany)

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#### B 08 | Synapses, Neurons & Glia

Chairs:	Manfred Heckmann (Würzburg, Germany); Xianshu Bai (Homburg, Germany)		
Presenta	tions:		
5:30 pm	B 08-01	10x Cryo-Expansion Microscopy of Primary Oligodendrocyte Progenitor Cell Growth Cones Annika Haak (Bochum, Germany)	
5:31 pm	B 08-02	Proteomic and Metabolomic Assessment of Lipopolysaccharide-induced Inflammation in Cellular Metabolism of Brain Microglia Canelif Yilmaz (Dresden, Germany)	
5:32 pm	B 08-03	THIK-1 controls microglial interleukin-1ß release in the human brain Ali Rifat (Berlin, Germany)	
5:33 pm	B 08-04	Microglia contribute to full maturation of glutamatergic networks but are dispensable for pruning of synapses during hippocampal development Michael Surala (Berlin, Germany)	
5:34 pm	B 08-05	A molecular definition of the readily-retrievable pool at presynaptic terminals Lakshmi Penothil Sunil (Muenster, Germany)	
5:35 pm	B 08-06	Microglia modulate gamma oscillatory network activity by P2Y12 receptor-mediated purinergic signaling Ecem Tütüncü (Berlin, Germany)	
5:36 pm	B 08-07	Human synapses on artificial substrate Alexander Ivanenko (Münster, Germany)	
5:37 pm	B 08-08	Distinct GABAergic Modulation of Spike Timing-Dependent Plasticity in Mouse CA1 Pyramidal cells across the Longitudinal Axis of the Hippocampus Babak Khodaie (Magdeburg, Germany)	
5:38 pm	B 08-09	Dynamin disruption acutely alters synaptic morphology <b>Robert Jacobi</b> (Würzburg, Germany)	

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- 5:39 pm B 08-10 Identification and functional characterization of distinct phenotypes in complexin N-terminus domain **Estelle Toulme** (Berlin, Germany)
- 5:40 pm B 08-11 Fast synaptic vesicle docking and re-arrangement of the vesicle cluster after short stimuli **Junxiu Duan** (Münster, Germany)

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#### **B 09 | Neuronal Networks**

Chairs:	Heiko Luhmann (Mainz, Germany); Jochen Röper (Frankfurt, Germany)		
Presenta	resentations:		
5:30 pm	B 09-01	Development of prefrontal afferents in health and disease Malte F. Stelzer (Hamburg, Germany)	
5:31 pm	B 09-02	Network synchrony creates neural filters that switch brain state from navigation to sleep in <i>Drosophila</i> Raquel Suárez-Grimalt (Berlin, Germany)	
5:32 pm	B 09-03	Behavioural classes and assembly of lateral hypothalamic neurons during synchronous and non-rhythmic states. Mahsa Altafi (Erlangen, Germany)	
5:33 pm	B 09-04	Dopamine's role as a modulator of dopaminergic neuron response in <i>Drosophila</i> Michael-Marcel Heim (Berlin, Germany)	
5:34 pm	B 09-05	Neuromodulatory mechanisms of rebound timing and gain control in dorsolateral striatum-projecting dopamine substantia nigra neurons Strahinja Stojanovic (Frankfurt am Main, Germany)	
5:35 pm	B 09-06	Environmental Enrichment increases GABAergic dendritic inhibition in dentate gyrus of mouse hippocampus <b>Stylianos Kouvaros</b> (Basel, Switzerland)	
5:36 pm	B 09-07	Neuronal Basis of interindividual Differences in Microcircuits Henrike Planert (Berlin, Germany)	
5:37 pm	B 09-08	Hippocampal neurons driven by sleep spindles are uniquely regulated during sleep Yury Kovalchuk (Tübingen, Germany)	
5:38 pm	B 09-09	Cross-species analysis of ex vivo high-frequency oscillations using multi-electrode arrays Michael D. Hadler (Berlin, Germany)	

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5:39 pm B 09-10 Morphological correlates of electrophysiological changes in prefrontal network activity along adolescent development **Timo Schwarze** (Hamburg, Germany)

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#### **B 10 | Cardiac Function 2**

Chairs:	irs: Martina Krüger (Düsseldorf, Germany); Susanne Rohrbach (Giessen, Germany)		
Presenta	Presentations:		
5:30 pm	B 10-01	sEH derived PUFAs affect pericyte-endothelial cell integrity and the function of the diabetic heart <b>Sebastian Kempf</b> (60590, Germany)	
5:31 pm	B 10-02	Elevated expression of acetylcholine receptor and collagen in hearts of db/db mice <b>Tobias Hofebauer</b> (Duesseldorf, Germany)	
5:32 pm	B 10-03	Chemogenetic generation of hydrogene peroxide in cardiac endothelial cells induces cardiac remodeling Melina Lopez (Frankfurt am Main, Germany)	
5:33 pm	B 10-04	Altered sarcomere properties in adult murine cardiomyocytes in response to lipid droplet accumulation Maurice Brucker (Düsseldorf, Germany)	
5:34 pm	B 10-05	Course of immune cell infiltration and the onset of cardiac fibrosis in pressure overload induced heart failure Anne Hemmers (Düsseldorf, Germany)	
5:35 pm	B 10-06	cAMP microdomain signaling at RyR2 in cardiomyocytes using subcellular targeted optogenetics Berivan Mansuroglu (Bonn, Germany)	
5:36 pm	B 10-07	Programming of human induced pluripotent stem cells to cardiac pacemaker-like cells and characterization of action potentials Jonathan Kindermann (Greifswald, Germany)	
5:37 pm	B 10-08	Cardiopulmonary effects of prolonged normobaric hypoxia and norepinephrine in rats Charly Bambor (Leipzig, Germany)	
5:38 pm	B 10-09	Cold storage of hearts for 24 hours preserves cardiomyocyte structure and function: an approach to reduce costs and the number of experimental animals Benedikt Pfeilschifter (Erlangen, Germany)	

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- 5:39 pm B 10-10 Characterization of a recently identified myosin, Myo18Ay, in the A-band of cardiac sarcomeres Markus Horsthemke (Potsdam, Germany)
- 5:40 pm B 10-11 Electrophysiological characterization of heart function in the incubated chicken egg **Judith Rees** (Berlin, Germany)

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Saturday, 23 September 2023, 9:00 a.m. - 9:45 a.m.

TL | Teaching Lecture: Respiratory Physiology in the times of COVID

Chairs: Jörg Geiger (Berlin)

#### **Presentations:**

9:00 am TL01 Respiratory Physiology in the times of COVID Wolfgang Kübler (Berlin, Germany)

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Saturday, 23 September 2023, 9:50 a.m. - 11:35 a.m.

#### **OS 10 | Cell Biology & Signal Transduction**

Chairs:	Ralf Mro	Irowka (Jena, Germany); Joachim Fandrey (Essen)		
Presentat	Presentations:			
9:50 am	OS 10-01	Ventricular and slow skeletal β-myosin molecules exhibit dissimilar chemomechanical properties due to deceleration by myosin essential light chain 1sa Tim Scholz (Hannover, Germany)		
10:05 am	OS 10-02	Liver X Receptors Alpha and Beta Modulate Skeletal Muscle Adaptations in Sedentary and Loading Conditions: Insights from Mice Studies Frank Suhr (Kulmbach, Germany)		
10:20 am	OS 10-03	Proteo-genomic identification of functional endothelial microproteins encoded by non-canonical small open reading frames. Mauro Siragusa (Frankfurt am Main, Germany)		
10:35 am	OS 10-04	Unc13A dynamically stabilizes vesicle priming at synaptic release sites for short-term facilitation and homeostatic potentiation Alexander M. Walter (Copenhagen, Denmark)		
10:50 am	OS 10-05	S-acylation of Stromal Interaction Molecule 1 (STIM1) enhances store-operated Ca <sup>2+</sup> entry (SOCE) Raphaël Néré (Geneva, Switzerland)		
11:05 am	OS 10-06	Ferroptosis resistance is associated with abated iron transport and increased tumorigenic hypoxia-inducible factor signalling in VHL-deficient renal cancer cells. Wing-Kee Lee (Bielefeld, Germany)		
11:20 am	OS 10-07	Extracellular acidosis induces G0/G1 cell cycle arrest in tumor cells via Ca <sup>2+</sup> signaling Anne Riemann (Halle, Germany)		

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#### S 11 | Protection of the cardiovascular system

Chairs:	Petra	Kleinbongard (Essen, Germany); Helmut Lieder (Essen, Germany)
Presentati	ons:	
9:50 am	S 11-01	NADPH oxidase is protective in carotid artery stenosis <b>Anja Hofmann</b> (Dresden, Germany)
10:10 am	S 11-02	Acetylcholine as mediator of myocardial ischemia/reperfusion-induced changes in sarcomere function Martina Krüger (Düsseldorf, Germany)
10:30 am	S 11-03	The role of RBCeNOS in myocardial ischemia/reperfusion injury Miriam M. Cortese-Krott (Düsseldorf, Germany)
10:50 am	S 11-04	Inhibition of prolyl-4-hydroxylase domain enzymes during reperfusion in myocardial infarction – a therapeutic option? <b>Dörthe M. Katschinski</b> (Göttingen, Germany)
11:10 am	S 11-05	A new approach to targeting PI3-Kinase for cardioprotection <b>Sean Davidson</b> (London, UK)

Joint meeting with the Austrian Physiological Society (APS) & Life Sciences Switzerland (LS<sup>2</sup>) Physiology

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## 21. - 23.09.2023 | BERLIN

Saturday, 23 September 2023, 9:50 a.m. - 11:50 a.m.

# S 12 | Teaching Physiology in the future – Challenges and opportunities of the next Approbationsordnung in Germany PLEASE NOTE: PRESENTATIONS AND DISCUSSION IN GERMAN

Chairs: Ulrich Decking (Düsseldorf, Germany); Rudolf Schubert (Augsburg, Germany)

#### **Presentations:**

- 9:50 am S 12-01 Main topics and challenges of the present proposal (Referentenentwurf) for a new Approbationsordnung Ulrich K. Decking (Düsseldorf, Germany)
- 10:05 am S 12-02 Combining basic education in physiology with clinical perspectives and a science track within the first two years of medical school Anja Meissner (Augsburg, Germany)
- 10:30 am S 12-03 Assessment of knowledge and understanding in physiology within an integrated and interdisciplinary curriculum **Stefan Gründer** (Aachen, Germany)
- 11:00 am S 12-04 Beyond the basics: Deepening of education in physiology and pathophysiology in the later years of a medical curriculum **Alexander P. Schwoerer** (Hamburg, Germany)

11:25 am S 12-05 Round table discussion

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Saturday, 23 September 2023, 9:50 a.m. - 11:50 a.m.

#### **S 13** | Axons as computational devices in single neurons and networks

Chairs:	Martin Both (Heidelberg, Germany); Maren Engelhardt (Linz, Austria)		
Presentat	ions:		
9:50 am	S 13-01	Fast hippocampal oscillations tuned by parvalbumin basket cell myelination <b>Maarten H.P. Kole</b> (Amsterdam, Netherlands)	
10:15 am	S 13-02	Activity–dependent axon initial segment plasticity in interneurons Elisa Galliano (Cambridge, UK)	
10:40 am	S 13-03	A neural circuit evolution hypothesis for axon initial segment structure and function <b>Fred Wolf</b> (Göttingen, Germany)	
11:05 am	S 13-04	Dendritic axon origin enables information gating by perisomatic inhibition in pyramidal neurons <b>Martin Both</b> (Heidelberg, Germany)	
11:30 am	S 13-05	Development and plasticity of AcD neurons in the mouse whisker/barrel system Maren Engelhardt (Linz, Austria)	

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### 21. - 23.09.2023 | BERLIN

Saturday, 23 September 2023, 9:50 a.m. - 11:50 a.m.

#### S 14 | Ion channels in immune cell function

Chairs: Ivan E	Ivan Bogeski (Goettingen, Germany); Marcus Schewe (Kiel, Germany)	
Presentations:		
9:50 am S 14-01	Regulation and function of store-operated and mechanosensitive Ca2+ channels in innate immune cells <b>Nicolas Demaurex</b> (Geneva, Switzerland)	
10:10 am S 14-02	Channeling Immunity: TRPM7 as regulator of immune homeostasis Susanna Zierler (Linz, Austria)	
10:30 am S 14-03	NAADP signaling and calcium microdomains Andreas H. Guse (Hamburg, Germany)	
10:50 am S 14-04	Calcium signaling and cytotoxicity in CTLs during aging <b>Annette Lis</b> (Homburg, Germany)	
11:10 am S 14-05	The voltage-gated potassium channel K <sub>v</sub> 1.3 regulates neutrophil functions during acute inflammation <b>Roland Immler</b> (Planegg-Martinsried, Germany)	
11:30 am S 14-06	Kv1.3 potassium channel of myeloid cells controls tumor growth <i>in vivo</i> <b>Tatiana Varanita</b> (Padova, Italy)	

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### 21. - 23.09.2023 | BERLIN

Saturday, 23 September 2023, 12:20 p.m. - 12:35 p.m.

#### **PP | Poster Prize Ceremony**

**Chairs:** 

**Presentations:** 

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# 21. - 23.09.2023 | BERLIN

Saturday, 23 September 2023, 12:35 p.m. - 1:20 p.m.

PL 04 | Vascular aging and dementia: from molecular changes to physiological alterations

Chairs: Jörg Geiger (Berlin)

**Presentations:** 

12:35 pm PL 04 Vascular aging and dementia: from molecular changes to physiological alterations **M. Luisa Iruela-Arispe** (Chicago, USA)

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### 21. - 23.09.2023 | BERLIN

Saturday, 23 September 2023, 1:20 p.m. - 2:00 p.m.

#### **CC | Closing Ceremony**

**Chairs:** 

**Presentations:**