



Deutsche
Physiologische
Gesellschaft

3 – 5 March 2016

Lübeck – Germany

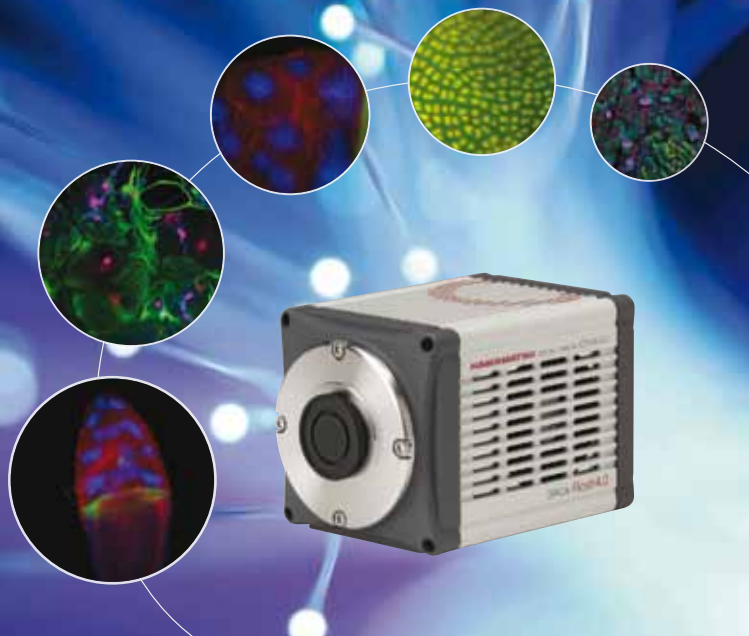


95th Annual Meeting

of the German Physiological Society

PROGRAM

Discover the Breakthrough



ORCA®-Flash4.0 V2

Scientific CMOS camera with 82% peak Quantum Efficiency. Available NOW from Hamamatsu.

Scientific breakthroughs rarely come from giant steps. Rather, it's a continuous progression of small steps and astute application of those differences that enables advances. From its introduction the ORCA-Flash4.0 has challenged the status quo of imaging and has undergone a series of useful enhancements. The most recent is perhaps the most exciting; a notable increase in the ability to detect photons. If you have not yet experienced the ORCA-Flash4.0 V2 sCMOS, now is the time.

What breakthrough will you make with your extra photons?

HAMAMATSU
PHOTON IS OUR BUSINESS
www.hamamatsucameras.com

TABLE OF CONTENT

Welcome Addresses		4
Sponsors & Exhibitors		8
Congress President		9
Program Committee		9
Organizer		9
Congress Secretariat		9
Congress Venue		9
Registration Desk		10
Media Check/Speakers' Service		10
Certificate of Attendance		11
Internet Access		11
Public Transportation		11
Get-Together		13
Social Dinner		13
Venue map		14-15
Floor Plan		16-17
Program-at-a-glance	Wednesday, March 2, 2016	18-19
Program-at-a-glance	Thursday, March 3, 2016	20-21
Program-at-a-glance	Friday, March 4, 2016	22-23
Program-at-a-glance	Saturday, March 5, 2016	24-25

Scientific Program

26

Wednesday, March 2, 2016

26

Pre-Symposium 01: Ion Channels – From Molecule to Malady

26

Pre-Symposium 02: Cardiovascular Physiology

27

Practical Course on Teaching Physiology

29

Young Physiologists School Talks

30

Thursday, March 3, 2016

32

Symposium 01: Symposium of the Young Physiologists

32

Symposium 02: Translational Kidney Physiology

33

Symposium 03: TRP Channels: From Physiology to Pathology

34

Oral Session 01: Contractility and Control of Tone

35

Oral Session 02: Hypoxia I

37

Plenary Lecture 01

38

Opening Ceremony

38

TABLE OF CONTENT

Symposium 04: Potassium Disorders: Causes, Adaptation and Consequences	39
Symposium 05: Cortical GABAergic Interneurons: From Mechanisms underlying synaptic Plasticity to higher Brain Function	39
Symposium 06: Muscle and Organ Cross Talk in Health and Disease	40
Oral Session 03: Ion Channels I: TRP & Calcium Channels	41
Workshop 01: News in Electrophysiology and Optogenetics	42
Poster Session 01	43
Get-Together	63
Friday, March 4, 2016	64
DPG Membership Assembly	64
Workshop 02: Funding Opportunities for Young Scientists – Do's and Don'ts for DFG-Proposals	65
Plenary Lecture 02	66
Plenary Lecture 03	66
Meetings of the DPG Working Groups	66
Symposium 07: Of Mice and Men – Experimentation with Animals under the New Animal Protection Law	67
Symposium 08: Hypoxic Regulation of Blood Cell Function	68
Oral Session 04: Cellular and Molecular Neuroscience I	68
Oral Session 05: Renal Physiology	70
Oral Session 06: Vascular Signaling, Angiogenesis & Platelets	71
Teaching Lecture	72
Poster Session 02	73
Social Dinner	89

TABLE OF CONTENT

Saturday, March 5, 2016

	90
Plenary Lecture 04	90
Poster Award Ceremony	90
Symposium 09: SNARE-Mediated Secretion: A Versatile Mechanism for Cargo Release	91
Oral Session 07: Cardiomyopathies & Cardiac Regeneration	92
Oral Session 08: Hypoxia II	93
Oral Session 09: Cellular and Molecular Neuroscience II	94
Oral Session 10: Ion Channels II: ENac/Acid- & Other	95
Symposium 10: Physiology and Pathophysiology of the Third Gasotransmitter H ₂ S	97
Symposium 11: Human Stem Cell Derived Neurons for Translational Research	98
Oral Session 11: Hippocampal Network Activity	98
Oral Session 12: Endothelial Cell Physiology	100
Oral Session 13: Transporters	101
Public Lecture	102

Authors' Index**105**



Prof. Dr. Wolfgang Jelkmann
President of the 95th Annual Meeting of the
Deutsche Physiologische Gesellschaft

Dear Colleagues,

It is my great pleasure to welcome you to the 95th Annual Meeting of the German Physiological Society in Lübeck.

The scientific program follows the success story of previous meetings, including four plenary, one teaching and one public lecture, 13 symposia and workshops, about 100 free oral and 300 poster presentations, covering the complete spectrum of modern physiology. About 700 participants are expected. The major scientific topics include: Brain function and neurotransmission, ion channels, heart and blood vessels, renal function and cellular adaptation to hypoxia. Novel highlights are the "Symposium of the Young Physiologists", the "Junge Physiologen", who will also give lectures at local high schools, and the Symposium on "Animal studies with respect to ethics and law".

This is the first DPG meeting in Lübeck. Compared with other universities ours is small, with just about 3,400 students. It started in 1964 as an Academy of Medicine but now encompasses also medical engineering, psychology, natural sciences and computer sciences. The common element among these is life sciences, also mirrored by our motto, "Focus on Life" ("Im Focus das Leben").

We invite you to enjoy three days of science in Lübeck, "Cultural Center of the North" and UNESCO World Cultural Heritage Site. Please, take the opportunity to explore its picturesque Old Town with merchants' brick houses and the narrow winding streets, medieval churches, the historic Town Hall, the Heinrich-and-Thomas-Mann-Center and the Günter-Grass-House, after the meeting.

Wolfgang Jelkmann
Congress President



Bernd Saxe
Mayor of Lübeck

It's a sincere delight to welcome so many renowned Congress Delegates in the Hanseatic City of Lübeck and a special welcome to those who have come to visit Germany and Lübeck for the first time.

The Hanseatic City of Lübeck confirmed itself as a location for science by winning the title "City of Science" in 2012 and ran a wide range of events and projects during this special "Year of Science" and in the subsequent years. Thus, Hanseatic tradition and scientific innovation meet here and both have a home here.

Science means to see the world with an open mind and open eyes and always to carry the question of "Why?" with you. But only in cooperation with many like-minded people you can begin to dissipate the ignorance and replace it by knowledge. Conferences like the 95th Annual Meeting of the German Physiological Society helping the people to perceive science as a driving force for the society and value creation. Similarly, such meetings give impetus of innovation for the local economy and make an important contribution to the recovery of professionals and executives. I wish you all an interesting and instructive time here in Lübeck with numerous fruitful discussions and that you can step up your cooperation and widen your experience and your knowledge.

This wish I connect with the invitation to explore the beautiful Hanseatic City of Lübeck with its historic old town. Here you have the unique opportunity to walk through a UNESCO World Heritage Site, to search for the connections between tradition and science.

Yours sincerely,

Bernd Saxe
Mayor



Prof. Dr. Dr. Hendrik Lehnert
President of the University of Lübeck

Ladies and Gentlemen,
dear colleagues,

it is a great honor and pleasure for the University of Lübeck to host the 95th Annual Meeting of the "Deutsche Physiologische Gesellschaft". Our sincere thanks go to Prof. Wolfgang Jelkmann and his enthusiastic team for organizing this meeting and compiling a scientifically highly attractive program.

The University of Lübeck is a young – founded in 1964 – and striving University, which over the last two decades has developed into a strong and successful life sciences campus. Though small, with a current student population approaching almost 4,000, this University has gained national and international reputation in research and education built around study courses such as Medicine, Informatics, Mathematics, Psychology or Medical Engineering. At present, two Collaborative Research Centers (Transregio-SFB's), a clinical research group (KFO) and four research training groups (GRK's) as well as numerous EU- and BMBF-funded projects represent the most recent scientific achievements. A strong and well-defined focus on major research themes such as Brain, Behavior and Metabolism, Infection and Immunity as well as Biomedical Technologies has helped to shape the perception of this campus as both concise and oriented towards the future major challenges in health and technology.

Since January 2015 the University has acquired the status of a "Foundation University", rendering this campus even more autonomous and flexible. The decision to remove traditional faculty boundaries has also clearly contributed to more interaction and cooperation between the different disciplines.

We are convinced that the meeting of the German Physiologists will be successful, inspiring and productive with regards to the exchange of novel data and creation of compelling research ideas. Having said this I would also very much like you to explore the modern life science campus and – only seemingly at contrast – the beautiful medieval sites of the Hansestadt Lübeck.

With my best wishes for your stay in Lübeck,

Hendrik Lehnert
President of the University of Lübeck



Prof. Dr. Rolf-Detlef Treede
President of the
Deutsche Physiologische Gesellschaft

Dear friends and colleagues,

it is my pleasure to welcome you to the 95th Annual Meeting of the German Physiological Society (DPG) in Lübeck. My colleague Prof. Wolfgang Jelkmann and his Scientific Programme Committee have put together an exciting line-up of lectures, workshops, symposia, oral and poster sessions that cover a vast range of topics from ion channels to high-altitude physiology. You can look forward to receive updates on the physiology of blood, heart, kidney, muscle, brain and other organs, on the systems physiology that connects them all, as well as cellular and molecular aspects of the functions of life.

I would like to draw your attention in particular to the practical course on teaching physiology and the didactic lecture on tubulo-glomerular feedback, which will help you to improve your own skills in presenting physiology to your students. The poster sessions are a particularly useful format to learn about the latest findings from the laboratories of your fellow physiologists. Last but not least, this congress provides ideal opportunities for networking and social meetings with your colleagues from your own field of physiology and from other fields of our speciality.

Lübeck is one of my favorite cities in Germany, and I hope that you will also have time to enjoy the architecture and other attractions of the former capital of the Hanse.

With my best wishes,

Rolf-Detlef Treede
DPG President 2016–2018

SPONSORS & EXHIBITORS

We thank the following sponsors and exhibitors for their generous support:

Sponsors



Exhibitors

(in alphabetical order)

AQAI GmbH, Germany
BIOMOL GmbH, Germany
BIOPAC Systems, Inc., USA
Chroma Technology GmbH, Germany
DMT A/S, Denmark
Femtonics Kft., Hungary
Fine Science Tools GmbH, Germany
Hamamatsu Photonics Deutschland GmbH, Germany
HEKA Elektronik Dr. Schulze GmbH, Germany
Hugo Sachs Elektronik - Harvard Apparatus GmbH, Germany
LaVision BioTec GmbH, Germany
Mountain Photonics GmbH, Germany
Multi Channel Systems MCS GmbH, Germany
npi electronic GmbH, Germany
OSPIN GmbH, Germany
Roper Scientific GmbH, Germany
RWD Life Science Co., Ltd., China
Science Products GmbH, Germany
Visitron Systems GmbH, Germany
World Precision Instruments, Germany

(status at time of printing)

GENERAL INFORMATION

Congress President

Prof. Dr. Wolfgang Jelkmann

University of Lübeck, Institute of Physiology
 Ratzeburger Allee 160, 23562 Lübeck

Program Committee

Prof. Dr. Markus Bleich, Kiel
 Prof. Dr. Ralf Brandes, Frankfurt
 Prof. Dr. Cor de Wit, Lübeck
 Prof. Dr. Joachim Fandrey, Essen
 Prof. Dr. Markus Hecker, Heidelberg
 Prof. Dr. Wolfgang Jelkmann, Lübeck
 Prof. Dr. Rüdiger Köhling, Rostock
 Prof. Dr. Volkmar Leßmann, Magdeburg
 Prof. Dr. Hugo Marti, Heidelberg
 Prof. Dr. Thomas Mittmann, Mainz
 Prof. Dr. Rainer Rettig, Greifswald
 Prof. Dr. Albrecht Schwab, Münster
 Prof. Dr. Robert Stehle, Köln
 Prof. Dr. Rolf-Detlef Treede, Heidelberg

Organizer

Deutsche Physiologische Gesellschaft e.V.

c/o Institute for Cardiovascular Physiology
 Faculty of Medicine of
 Goethe University Frankfurt
 Prof. Dr. Ralf Brandes – General Secretary –
 Theodor-Stern-Kai 7, 60596 Frankfurt
 Phone: 0049 (0)69-6301-6049
 E-Mail: dpg@zphys1.uni-frankfurt.de
 Web: www.physiologische-gesellschaft.de

Congress Secretariat

K.I.T. Group GmbH Dresden

Münzgassee 2
 01067 Dresden
 Phone: 0049 (0) 351 4823733
 E-Mail: info@kitdresden.de
 Web: www.kit-group.org

Venue

Main building

University of Lübeck
 Hörsaalzentrum (Audimax)/Gebäude 65
 Mönkhofer Weg 239, 23562 Lübeck

Registration Desk

The registration desk is located at the main entrance of the Audimax building (see floor plan on page 16).

Opening hours

Thursday, March 3	07:30 – 19:30
Friday, March 4	08:00 – 19:30
Saturday, March 5	08:00 – 15:00

On-site Registration Fees

Member	200.00 €
Non-member	250.00 €
Student/Doctoral Fellow	120.00 €
Social Dinner	40.00 €

Day-Ticket

Member	100.00 €
Non-member	150.00 €
Student/Doctoral Fellow	50.00 €

The conference fee includes:

- Access to all scientific sessions and to the exhibition and poster area
- Congress material (printed program and abstract book)
- Refreshments during the breaks/Lunch boxes from Thursday to Saturday
- Attendance at the Get-Together on Thursday evening

Media Check/Speakers' Service

The media check is located in the **seminar room S2** (first floor, see floor plan on page 17). We kindly ask you to hand in your presentation on a memory stick/CD ROM about 2 hours in advance of your talk, at the latest, or the day before.

Opening hours

Thursday, March 3	07:30 – 18:00
Friday, March 4	08:00 – 18:00
Saturday, March 5	08:00 – 14:00

Certificate of Attendance

Certificates of attendance will be sent to every participant **by e-mail** after the conference has taken place.

Internet Access

Participants requiring internet access can get **individual** guest accounts at the registration desk. Additionally, the **Eduroam wireless network** is available throughout the university campus.

Public Transportation

The university campus is located ca. 5 kilometers south of the old city center of Lübeck.

By bus:

From the central bus terminal (ZOB) – which is next to the central train station – you can take following bus lines (journey time ca. 20 minutes):

Bus Lines 1, 9: stop **Fachhochschule**

Bus Line 9: stop **Universitätsklinikum**

Bus Line 32 (express bus): stop **Stephensonstraße**

Lines 1, 9 run through the city center where most hotels are located.

Line 32 is a direct express bus from the ZOB/main station.

By train:

From the central station (Hauptbahnhof) you can also take the regional train towards 'Bad Kleinen/ Neubrandenburg' which will have one stop in "Lübeck St. Jürgen" (journey time ca. 6 minutes). The station **Lübeck St. Jürgen** is situated within 10 minutes walking distance from the conference building.

Parking Information:

Participants arriving by car have to park at the regular visitors' parking areas (see venue map on page 14). Please note that parking spaces are limited and subject to a fee, therefore we recommend to reach the congress venue by public transport.

NEW!



IPA™

BUTTER INSTRUMENT

INTEGRATED PATCH CLAMP AMPLIFIER AND DATA ACQUISITION SYSTEM

Fully integrated patch clamp amplifier & data acquisition system ensures quick and easy setup

Optimized for whole-cell patch clamp recordings in tissue slices, adherent or dissociated cells

Full computer control provides automated compensation of electrode & whole-cell capacitance

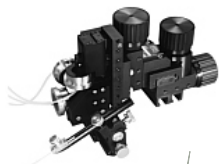
Voltage & current clamp capability for complete characterization of cells' electrical activity

Bundled **SutterPatch™** software excels in comprehensive data management, intuitive navigation & streamlined data analysis

MORE PRODUCTS FOR NEUROSCIENCE, ELECTROPHYSIOLOGY AND PHARMACOLOGY RESEARCH AVAILABLE ON OUR WEBSITE:



www.science-products.com



Get-Together

Thursday, March 3, 2016 // 19:00

On the first evening of the congress, all delegates are kindly invited to join the get-together in the foyer area.

The reception is free for every registered participant/exhibitor. Snacks and refreshments will be served.

Meeting point

Foyer Audimax
Mönkhofer Weg 239
23562 Lübeck

Social Dinner

Friday, March 4, 2016 // 20:00

The traditional DPG dinner will take place in the "Schiffergesellschaft", one of the most popular restaurants in Lübeck. You will enjoy delicious regional specialties from North Germany while getting in touch with friends and colleagues in a relaxed atmosphere.

Please note: The number of participants is limited and tickets are given on a first come first served basis. The ticket price includes one welcome drink and buffet dinner. Further drinks during the dinner are to be paid extra.

Meeting point:

Schiffergesellschaft
Breite Str. 2
23552 Lübeck

Directions: Lines 4, 10, 11, 21, 30, 32, 39: stop **Koberg**

From the university campus you can take the express bus 32 (direction 'Hirtenbergweg') and get off at the stop **Koberg**.

Another possibility is to take at the stop **Fachhochschule** the bus line 1 or 9 (direction 'Bad Schwartau') and then change at the station **Königstraße**, then walk to the station **Wahmstraße** and take the bus line 11 (direction 'Zarnewenzweg') or 21 (direction 'Gleisdreieck') getting off at the stop **Koberg**.

Campus University of Lübeck

Navigation to Audimax

Address
Mönkhofer Weg 239
23562 Lübeck

Coordinates
53.83432, 10.70003



**Audimax
Building 65**

Main Conference
March 3–5

Building 61

Hörsaal/Hall
V1 / V2

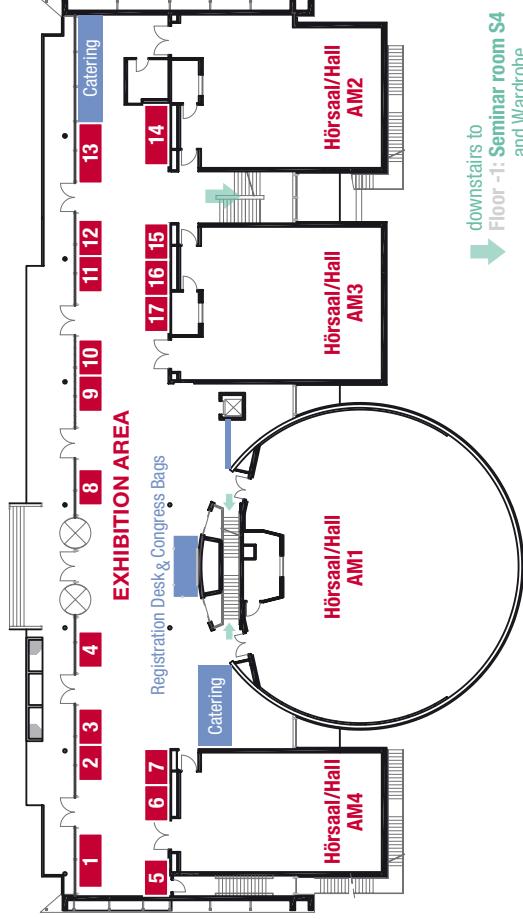
Pre-Symposia
March 2

Building 82

Dozierenden-
Service-Center

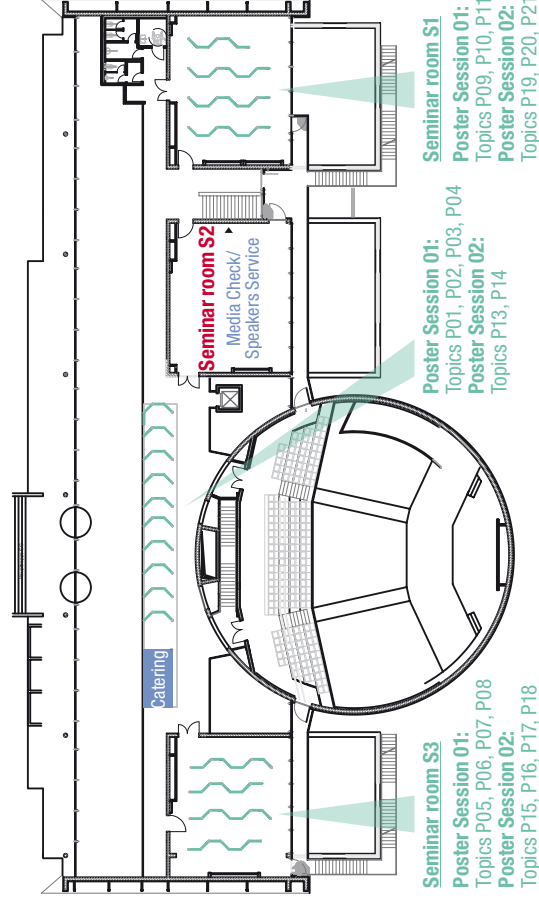
Teaching
Physiology
Workshop
March 2

GROUND FLOOR



Company	Booth No.
AQAI GmbH	11
BIOMOL GmbH	12
BIOPAC Systems, Inc.	17
Chroma Technology GmbH	13
DMT A/S	2
Femtonics Ltd.	15
Fine Science Tools GmbH	14
Hamamatsu Photonics Deutschland GmbH	8
HEKA Elektronik Dr. Schulze GmbH	1
Hugo Sachs Elektronik-Harvard Apparatus GmbH	1
LaVision BioTec GmbH	3
Mountain Photonics GmbH	9

FLOOR PLAN – AUDIMAX / BUILDING 65



Multi Channel Systems MCS GmbH	1
npi electronic GmbH	7
OSPIN GmbH	5
Roper Scientific GmbH	6
RWD Life Science Co., Ltd.	16
Science Products GmbH	10
Visitron Systems GmbH	13
World Precision Instruments	4

	Hörsaal/Hall	
	V1	V2
09:00	Pre-Symposium 01 Ion Channels – From Molecule to Malady <i>p. 26</i>	
10:00		
10:00		
13:00		
13:00		Pre-Symposium 02 Cardiovascular Physiology <i>p. 27</i>
18:00		

Dozierenden- Service-Center
Practical Course on Teaching Physiology <i>p. 29</i>

WEDNESDAY, MARCH 2, 2016

Hörsaal/Hall			
	AM1	AM2	AM3
08:30	Symposium 01 Symposium of the Young Physiologists <i>p. 32</i>	Symposium 02 Translational Kidney Physiology <i>p. 33</i>	Symposium 03 TRP Channels: From Physiology to Pathology <i>p. 34</i>
10:30			
11:00 11:30	Coffee Break / Exhibition Visit		
11:30	Plenary Lecture 01 Denise Manahan-Vaughan (Bochum) <i>p. 38</i>		
12:30			
12:30	Lunch Break / Exhibition Visit		
13:30			
13:30	Opening Ceremony Welcome, Opening Talk & Emil du Bois-Reymond Prize Winner Lecture <i>p. 38</i>		
15:00			
15:00	Symposium 04 Potassium Disorders: Causes, Adaptation and Consequences <i>p. 39</i>	Symposium 05 Cortical GABAergic Interneurons: From Mechanisms underlying synaptic Plasticity to higher Brain Function <i>p. 39</i>	Symposium 06 Muscle and Organ Cross Talk in Health and Disease <i>p. 40</i>
17:00			
17:00 17:30	Break		
17:30			
19:00			
19:00	Get-Together <i>p. 13</i>		

Seminarraum/Seminar room			
AM4	S1	S3	S4
Oral Session 01 Contractility and Control of Tone <i>p. 35</i>	Poster Exhibition		Oral Session 02 Hypoxia I <i>p. 37</i>
Coffee Break / Exhibition Visit			Coffee Break / Exhibition Visit
Lunch Break / Exhibition Visit			Lunch Break / Exhibition Visit
Oral Session 03 Ion Channels I: TRP & Calcium Channels <i>p. 41</i>			Workshop 01 News in Electrophysiology and Optogenetics <i>p. 42</i>
Break			
	Poster Session 01 <i>p. 43</i>		

THURSDAY, MARCH 3, 2016

Hörsaal/Hall			
	AM1	AM2	AM3
08:30	Plenary Lecture 04 Rüdiger Köhling (Rostock) <i>p. 90</i>		
09:30			
09:30 09:40	Poster Award Ceremony <i>p. 90</i>		
09:40 10:00	Coffee Break / Exhibition Visit		
10:00	Symposium 09 SNARE-Mediated Secretion: A Versatile Mechanism for Cargo Release <i>p. 91</i>	Oral Session 07 Cardiomyopathies & Cardiac Regeneration <i>p. 92</i>	Oral Session 08 Hypoxia II <i>p. 93</i>
12:00			
12:00	Lunch Break / Exhibition Visit		
13:00			
13:00	Symposium 10 Physiology and Pathophysiology of the Third Gas-transmitter H ₂ S <i>p. 97</i>	Symposium 11 Human Stem Cell Derived Neurons for Translational Research <i>p. 98</i>	Oral Session 11 Hippocampal Network Activity <i>p. 98</i>
15:00			
16:00	Public Lecture at the Rathaus, Audienzsaal Ulrich Pohl (München) <i>p. 102</i>		

Seminarraum/Seminar room			
AM4	S1	S3	S4
Coffee Break / Exhibition Visit			
Oral Session 09 Cellular and Molecular Neuroscience II <i>p. 94</i>			Oral Session 10 Ion Channels II: ENac / Acid- & Other <i>p. 95</i>
Lunch Break / Exhibition Visit			
Oral Session 12 Endothelial Cell Physiology <i>p. 100</i>			Oral Session 13 Transporters <i>p. 101</i>

SATURDAY, MARCH 5, 2016

Wednesday, March 2, 2016

Pre-Symposium 01

09:00–18:00, Hall V1

Ion Channels – From Molecule to Malady

Chair: Birgit Liss (Ulm)

09:00		Opening remarks / Introduction Birgit Liss (Ulm)
09:15	PS01-1	Molecular identity and properties of the volume-regulated anion channel VRAC Thomas J. Jentsch (Berlin)
10:10	PS01-2	Kv1.1 channels – from episodic ataxia to gene therapy for epilepsy Dimitri Kullmann (London, UK)
11:05	PS01-3	Function and modulation of TRP channels in the somatosensory system Thomas Voets (Leuven, Belgium)
12:00–13:30		Lunch Break
13:30	PS01-4	Cell-specific regulation of calcium ion channel function Diane Lipscombe (Providence, USA)
14:25	PS01-5	L-type calcium channels in brain disorders Jörg Striessnig (Innsbruck, Austria)
15:25–15:50		Coffee Break
15:50	PS01-6	Electrical signalling in sperm – exotic ion channels with weird properties Benjamin Kaupp (Bonn)
16:45	PS01-7	Optogenetics: Lighting up the brain Gero Miesenböck (Oxford, UK)
17:40		Closing remarks Birgit Liss (Ulm)

Hörsaalgebäude Vorklinik, Hörsaal/Hall V1
(Building 61, see map on page 14)

Pre-Symposium 02

13:00–18:00, Hall V2

Cardiovascular Physiology

13:00–15:30 **Session 1 –**
What's new in cardiovascular physiology?

Chairs: Ingrid Fleming (Frankfurt)
Cor de Wit (Lübeck)

13:00	PS02-1	Long non coding RNAs in the control of the endothelial phenotype Matthias Leisegang (Frankfurt)
13:25	PS02-2	The soluble epoxide hydrolase attenuates pathological vascularization by preventing astrocytes loss in retinopathy of prematurity in mice Jiong Hu (Frankfurt)
13:50	PS02-3	Von Willebrand factor-platelet string-mediated endothelial cell-leukocyte interaction in maladaptive vascular remodelling processes Andreas Wagner (Heidelberg)
14:15	PS02-4	New insights into vessel remodeling by angiotensin - role of the endothelium Irakli Kopaliani (Dresden)
14:40	PS02-5	Not just for contraction: Emerging roles for regulator of G-protein 5 in orchestrating vascular smooth muscle cell activity Caroline Arnold (Heidelberg)
15:05	PS02-6	Comparing phosphodiesterase-dependent cardiovascular and gastrointestinal smooth muscle relaxation Dieter Groneberg (Würzburg)
15:30–16:00		Break

16:00–18:00 **Session 2 –
New (imaging) techniques in cardiovascular
physiology**

Chairs: Ralf Brandes (Frankfurt)
Ulrich Flögel (Düsseldorf)

16:00 **PS02-7 Nanomedicine: Vascular repair by circumferential
gene and endothelial cell therapy**
Daniela Wenzel (Bonn)

16:24 **PS02-8 Echocardiography**
André Heinen (Düsseldorf)

16:48 **PS02-9 PET & SPECT: Cardiovascular molecular imaging**
Sven Hermann (Münster)

17:12 **PS02-10 Cardiovascular magnetic resonance in mice:
beyond vasculature and cardiac function**
Uli Flögel (Düsseldorf)

17:36 **PS02-11 Generation and characterization of cardiomyocyte-
specific redox sensor mouse lines**
Liza Swain (Göttingen)

Hörsaalgebäude Vorklinik, Hörsaal/Hall V2
(Building 61, see map on page 14)

Practical Course on Teaching Physiology **10:00–18:15
Building 82**

Organizer: Bettina Jansen-Schulz (Lübeck)

10:00–13:00 **Morning Symposium**

Welcome Addresses

Jürgen Westermann (Lübeck), Studiengangsleiter Humanmedizin, Universität zu Lübeck
Wolfgang Jelkmann (Lübeck), Congress President

**Tutor(innen)schulung “Theorie und Praxis guter
Lehre”**

Jörn Schnieder (Lübeck)

**One of the most powerful influences on learning:
Wie kann Lehre gelingen?**

Peter Iblher (Lübeck)

**eLearning und Blended Learning in der Mediziner-
Ausbildung**

Ludger Tüshaus (Lübeck)

14:00–18:15 **Afternoon Workshop**

“Vorlesungen in der Medizin”

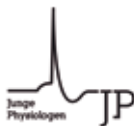
Ingeborg Stahr (Duisburg-Essen)

Please note: the workshop will be held in German language; please be aware that the participation number is limited to 25 persons and a previous registration was mandatory.

**Dozierenden-Service-Center, Herrenhaus
Peter-Monnik-Weg 9, 23562 Lübeck** (Building 82, see map on page 14)

Young Physiologists School Talks

The Young physiologists and Bärbel Kunze (Lübecker offenes Labor - LoLa; Universität zu Lübeck) organized in total 10 talks at 9 public schools in Lübeck. The Young physiologists will give the pupils an introduction to physiology, their field of research and current experiments. Furthermore there will be an open discussion on how to become a scientist nowadays, especially in LifeSciences:



Baltic Schule Lübeck

Damit die Kuh nicht sauer wird: Nährstofftransport über das Vormagenepithel

Reiko Rackwitz (Leipzig)

Ernestinenschule zu Lübeck, Geschwister-Prenski-Schule

Auf dem Highway der Zelle

Rachel Conrad (Jülich)

Gliazellen: Mehr als nur Stützzellen oder Nervenkitz

Verena Untiet (Jülich)

Was ist glatte Muskulatur?

Robert Patejdl (Rostock)

Johanneum zu Lübeck

CFTR-mRNA Transfektion mit Kationischen non-viralen Vektoren in humanen Epithelzellen der Atemwege

Elena Fernández Fernández (Münster)

Eine Reise in unser Gehirn: Wie treffen wir Entscheidungen?

Marcel Brosch (Magdeburg)

Die Reise des Zuckerstückchen: Glukosetransport im Dünndarm

Franziska Dengler (Leipzig)

Gymnasium am Mühlenberg

Können Nerven sauer werden?

Felix Beinlich (Jülich)

Thomas-Mann-Schule

Titin – der sensible Gigant der Muskulatur

Senem Sahin (Düsseldorf)

Trave-Gymnasium

Optogenetik am Herzen: Den Puls des Lebens mit Licht untersuchen

Maximilian Funken (Bonn)

Thursday, March 3, 2016

Symposium 01 (Special Topic) 08:30–10:30, Hall AM1

Symposium of the Young Physiologists



Chairs: Verena Untiet (Jülich)
Peter Benz (Frankfurt)

This Session is organized by the Young Physiologists, namely the three winners of the prizes for the “Best Talks” at the last Symposium of the Young Physiologists in Leipzig, September 2015. These were elected by all participants of the Symposium and have now the honor to present their data at the annual meeting, this time supported by an expert of their field of interest.

S01-1 Understanding and treating cardiac arrhythmia – from mice and goat to man
Tobias Bruegmann (Bonn) supported by Ulrich Schotten (Maastricht, Netherlands)

S01-2 mRNA delivery in human airway epithelial cells for cystic fibrosis therapy
Elena Fernández Fernández (Muenster) supported by Mike Althaus (Giessen)

S01-3 A systemic view of learning induced brain network changes: illustrating memory formation and neuronal circuit plasticity
Marcel Brosch (Magdeburg) supported by Jozsef Csicsvari (Klosterneuburg, Austria)

Symposium 02 08:30–11:15, Hall AM2

Translational Kidney Physiology

Joint Symposium of the German Physiological Society (DPG) and the German Society of Nephrology (DGfN)



Chairs: Andreas Linkermann (Kiel)
Frank Schweda (Regensburg)

08:30		Welcome
08:35	S02-1	New aspects of proteinuria: insights from multi-photon microscopy studies Hayo Castrop (Regensburg)
09:00	S02-2	mTOR complexes – segment specific regulators of tubular transport Florian Grahammer (Freiburg)
09:25	S02-3	Role of proteolytic activation of ENaC in hypertension with albuminuria Boye L. Jensen (Odense, Denmark)
09:50–10:15		Coffee break
10:15	S02-4	Diuretic-induced changes in urinary acid and base excretion Jens Leipziger (Aarhus, Denmark)
10:40	S02-5	Doing the Graveyard Waltz – Balancing regulated necrosis in AKI Andreas Linkermann (Kiel)
11:05		Concluding remarks Frank Schweda (Regensburg)

Symposium 03

08:30–11:00, Hall AM3

TRP Channels: From Physiology to Pathology

supported by



Chairs: **Ivan Bogeski** (Homburg)
Christine Peinelt (Homburg)

- 08:30** **Introduction TRP channels**
 Ivan Bogeski and Christine Peinelt (Homburg)
-
- 08:35** **S03-1** **TRPC1/4/5 channels in health and disease**
 David Beech (Leeds, UK)
-
- 09:05** **S03-2** **Role of the kinase-coupled TRPM6 channel in magnesium homeostasis: From mouse models to human disease**
 Vladimir Chubanov (München)
-
- 09:35** **S03-3** **Regulation of TRPM3 activity in somatosensory neurons by opioid substances**
 Johannes Oberwinkler (Marburg)
-
- 10:05** **S03-4** **A TRP channel CAN CAN that regulates Ca²⁺ dependent cell functions**
 Rudi Vennekens (Leuven, Belgium)
-
- 10:35** **S03-5** **TRPM4 channel in cardiac electrical disorders**
 Hugues Abriel (Bern, Switzerland)

Oral Session 01

08:30–11:00, Hall AM4

Contractility and Control of Tone

Chairs: **Martina Krüger** (Düsseldorf)
Robert Patejdl (Rostock)

- 08:30** **OS01-1** **Besides its effect on bladder contractility, caldesmon deficiency leads to a triad of morphological features: umbilical hernia, split lower part of the sternum and white liver areas**
S. L. Barthel (Köln), M. Frohn, D. Metzler, O. Trunschke, S. Puetz, M. Koch, W. F. Neiss, M. M. Schroeter, G. Pfitzer
-
- 08:45** **OS01-2** **c-Src tyrosine kinase contribution to 5-HT-mediated contraction in rat skeletal muscle arteries is Ca-dependent**
O. Zavaritskaya (Heidelberg), S. Altay, R. Schubert
-
- 09:00** **OS01-3** **Arterial stiffness and pulse wave velocity in mice lacking NO-sensitive guanylyl cyclase**
S. Dünnes (Würzburg), D. Groneberg, V. Herold, P. Jakob, A. Friebe
-
- 09:15** **OS01-4** **The role of alternative mRNA splicing and threonine 696/853-phosphorylation of myosin phosphatase regulatory subunit (MYPT1) in the regulation of tone of murine brain vasculature**
L. T. Lubomirov (Köln), M. M. Schroeter, S. Hilsdorf, D. Filipova, S. Baransi, S. Papadopoulos, G. Pfitzer
-
- 09:30** **OS01-5** **Consequences of postnatal vascular smooth muscle EGF-receptor deletion on acute angiotensin II action**
B. Schreier (Halle), M. Hünerberg, S. Rabe, S. Mildemberger, D. Bethmann, C. Heise, M. Gekle
-
- 09:45** **OS01-6** **Aging-related progressive skeletal muscle weakness in mutant Des^{R349P} muscles: a matter of compromised cytoarchitecture**
S. Diermeier (Erlangen), A. Buttgeriet, C. S. Clemen, R. Schröder, O. Friedrich
-
- 10:00** **OS01-7** **Comparing phosphodiesterase-dependent cardiovascular and gastrointestinal smooth muscle relaxation**
 A. Aue, B. Lies, A. Friebe, **D. Groneberg** (Würzburg)

- 10:15 **OS01-8** **An extra kick from the giant muscle protein titin**
W. A. Linke (Bochum), J. A. Rivas-Pardo, E. C. Eckels,
 P. Kosuri, J. M. Fernandez
-
- 10:30 **OS01-9** **C-type- not atrial- natriuretic peptide stabilizes mast cells and attenuates microvascular leakage during ischemic reperfusion**
W. Chen (Würzburg), K. Völker, F. Werner, A. Rabenhorst,
 K. Hartmann, M. Kuhn
-
- 10:45 **OS01-10** **Contribution of myogenic response to peripheral vasoconstriction during orthostatic challenge**
H. Habazetti (Berlin), A. Schwarz, M. Nordine,
 E. Mulder, H.-C. Gunga, O. Opatz

Oral Session 02

08:30–10:30, Seminar room S4

Hypoxia I

- Chairs:** David Hoogewijs (Essen)
 Katrin Schröder (Frankfurt)
-
- 08:30 **OS02-1** **The oxygen sensor PHD2 affects cell migration, energy metabolism and mitochondrial function in macrophages**
A. Guentsch (Göttingen), A. Beneke, K. Farhat,
 L. Swain, A. Hillemann, S. Nagarajan, J. Dudek, A. Shah,
 D. Katschinski
-
- 08:45 **OS02-2** **Hypoxia-induced myeloid cell function through hypoxia inducible factor 1 impairs the clinical course of experimental inflammatory bowel disease**
V. Reichmann (Duisburg-Essen), S. Winning, J. Fandrey
-
- 09:00 **OS02-3** **Characterisation of the SDS-PAGE resistant protein: protein heterodimer FIH:OTUB1 – Implications for oxygen sensing?**
C. Pickel (Zürich, Switzerland), R. H. Wenger, C. Scholz
-
- 09:15 **OS02-4** **Prolyl-4-hydroxylase domain enzymes 2 and 3 differentially regulate the inflammatory response in a murine model of hind limb ischemia**
A. Beneke (Göttingen), L. Swain, D. Katschinski
-
- 09:30 **OS02-5** **Inhibition of the nucleotide pool sanitizing enzyme MTH1 augments genotoxic effects of ionizing radiation and hypoxia on tumor cells**
M. Pompsch (Duisburg-Essen), U. Brokmeier, H. Riffkin,
 P. Kranz, M. Baumann, K. Göpelt, F. Claßen, A. Wolf,
 U. Berglund, T. Helleday, E. Metzgen
-
- 09:45 **OS02-6** **Estrogen-dependent downregulation of hypoxia-inducible factor (HIF)-2 α in invasive breast cancer cells**
J. H. Fuady (Zürich, Switzerland), K. Gutsche,
 S. Santambrogio, Z. Varga, D. Hoogewijs, R. H. Wenger
-
- 10:00 **OS02-7** **Controlling the gates by nuclear import receptors: Targeting nuclear transport affects HIF-dependent hypoxia response**
F. K. Kosyna (Lübeck), M. Nagel, W. Jelkmann,
 R. Depping

10:15 **OS02-8** **The transcription factor WT1 regulates gonadal expression of the receptor for vascular endothelial growth factor A (KDR, VEGFR2) in a sex-specific manner**
K. M. Kirschner (Berlin), L. J. Rudigier, L. K. Sciesielski, H. Scholz

11:00–11:30 **Coffee break**

Plenary Lecture 01 **11:30–12:30, Hall AM1**

Chair: Christian Alzheimer (Erlangen)

11:30 **PL-01** **Deciphering the functional role of hippocampal synaptic plasticity in learning and memory**
 Denise Manahan-Vaughan (Bochum)

12:30–13:30 **Lunch break**

Opening Ceremony **13:30–15:00, Hall AM1**

Welcome Addresses

Wolfgang Jelkmann (Lübeck), Congress President

Bernd Saxe, Mayor of Lübeck

Hendrik Lehnert, President of the University of Lübeck

Rolf-Detlef Treede (Mannheim), President of the Deutsche Physiologische Gesellschaft

Opening Talk: "Lübeck, Queen of the Hanse"

Rolf Hammel-Kiesow, Scientific Director Europäisches Hansemuseum Lübeck

Announcement and Lecture of the Emil du Bois-Reymond Prize Winner

Symposium 04

15:00–17:00, Hall AM1

Potassium Disorders: Causes, Adaptation and Consequences

Chairs: Nina Himmerkus (Kiel)
Frank Schweda (Regensburg)

15:00 **Introduction**
 Markus Bleich (Kiel)

15:05 **S04-1** **Regulation of aldosterone release by potassium**
 Richard Warth (Regensburg)

15:35 **S04-2** **Dietary potassium and the renal control of salt balance and blood pressure**
 David Penton (Zürich, Switzerland)

15:55 **S04-3** **Disturbances of potassium homeostasis: a clinical perspective**
 Detlef Boeckenhauer (London, UK)

16:20 **S04-4** **Potassium and cardiac arrhythmias**
 Nils Decher (Marburg)

16:45 **S04-5** **ROMK in proteinuria, data from rat and human kidney**
 Boye L. Jensen (Odense, Denmark)

Symposium 05

15:00–17:00, Hall AM2

Cortical GABAergic Interneurons: From Mechanisms underlying synaptic Plasticity to higher Brain Function

Chairs: Marlene Bartos (Freiburg)
Jörg Geiger (Berlin)

15:00 **S05-1** **Functional role of metabotropic group I glutamate receptors in synaptic plasticity at granule cell – Interneuron synapses**
 Marlene Bartos (Freiburg)

15:15 **S05-2** **Structural plasticity of Parvalbumin-expressing cells in the dentate gyrus**
 Angelica Foggetti (Kiel)

- 15:25 **S05-3** **Differential GABA_B receptor-mediated control of inhibitory interneuron types in hippocampal networks**
Imre Vida (Berlin)
-
- 15:40 **S05-4** **Activity-dependent regulations of interneuron circuits**
Jozsef Csicsvari (Klosterneuburg, Austria)
-
- 15:55 **S05-5** **Sensorimotor transformation in the mouse forepaw system**
James Poulet (Berlin)
-
- 16:10 **S05-6** **Non-associative potentiation of perisomatic inhibition**
Alberto Bacci (Paris, France)
-
- 16:35 **S05-7** **Neocortical somatostatin neurons reversibly silence excitatory transmission via GABA_B receptors**
Alison Barth (Pittsburgh, USA)

Symposium 06

15:00–17:00, Hall AM3

Muscle and Organ Cross Talk in Health and Disease

Joint Symposium between the Scandinavian and German Physiological Society

Chairs: Gabriele Pfitzer (Köln)
Karl-Heinz Herzig (Oulu, Finland)

- 15:00 **S06-1** **Mitochondrial function during exercise**
Kent Sahlin (Stockholm, Sweden)
-
- 15:24 **S06-2** **Effect of exercise on gene transcription and epigenetic changes**
Carl Johan Sundberg (Stockholm, Sweden)
-
- 15:48 **S06-3** **Weak by the machines – skeletal muscle as target in critical conditions**
Oliver Friedrich (Erlangen – Nürnberg)
-
- 16:12 **S06-4** **Myokine signaling during inflammation and aging**
Bente Klarlund Pedersen (Copenhagen, Denmark)
-
- 16:36 **S06-5** **Immune modulation by exercise in tumor patients – role of the muscle**
Wilhelm Bloch (Köln)

Oral Session 03

15:00–17:00, Hall AM4

Ion Channels I: TRP & Calcium Channels

Chairs: Johannes Oberwinkler (Marburg)
Friederike Stumpff (Berlin)

- 15:00 **OS03-1** **Conduction disorder caused by a mutation in POPDC2, a novel modulator of the cardiac sodium channel SCN5A**
S. Rinné (Marburg), B. Ortiz-Bonnin, B. Stallmeyer, R. F. R. Schindler, A. K. Kiper, S. Dittmann, C. Friedrich, S. Zumhagen, S. L. Simrick, W. González, T. Brand, E. Schulze-Bahr, N. Decher
-
- 15:15 **OS03-2** **Deletion of the TRPV4 cation channel in mice does not cause marked changes of skeletal muscle structure: a comparison with dystrophic mdx mice**
R. Dreist (Greifswald), M. Krautwald, **H. Brinkmeier**
-
- 15:30 **OS03-3** **Role of TRPC1 channels in pressure-mediated activation of murine pancreatic stellate cells**
B. Fels (Münster), A. Schwab
-
- 15:45 **OS03-4** **The bovine analogue of TRPV3 conducts the NH₄⁺ ion**
K. Hille (Berlin), G. Sponder, F. Liebe, **F. Stumpff**
-
- 16:00 **OS03-5** **The photosensitization by 7-dehydrocholesterol activates TRPA1 and TRPV1 – connections to the Smith-Lemli-Opitz syndrome**
C. Ciotu (Erlangen), A. Babes, M. Fischer
-
- 16:15 **OS03-6** **A forward genetic screen identifies a Ca²⁺-regulated mitochondrial metabolite carrier required for the establishment of left-right asymmetry**
A. Hoffherr (Freiburg), C. Seger, G. Walz, T. Watnick, M. Köttgen
-
- 16:30 **OS03-7** **Differential control of intracellular Ca²⁺ signaling by anoctamins**
I. Cabrita (Regensburg), R. Benedetto, P. Wanitchakool, L. Sirianant, K. Kunzelmann, R. Schreiber
-
- 16:45 **OS03-8** **Differential accessibility to phospholipase C defines functional PI(4,5)P₂ microdomains in the plasma membrane**
M. G. Leitner (Marburg), V. Thallmair, C. R. Halaszovich, D. Oliver

Workshop 01

15:00–17:30, Seminar room S4

News in Electrophysiology and Optogenetics

supported by



Chairs: Andreas Draguhn (Heidelberg)
Hans Reiner Polder (npi electronic)

- 15:00 **W01-1** **Optogenetic manipulation of intracellular signaling cascades in cardiomyocytes**
Philipp Sasse (Bonn)
-
- 15:30 **W01-2** **Inseparable: Cellular electrophysiology and intracellular Calcium in cardiac myocytes**
Niels Voigt (Essen)
-
- 16:00 **W01-3** **Photopharmacological tools to control cellular function with light**
Martin Sumser (München)
-
- 16:30 **W01-4** **Determination of oxygen consumption rates during network oscillations with Clark-type oxygen micro-sensors**
Justus Schneider and Oliver Kann (Heidelberg)
-
- 17:00 **W01-5** **Influence of auxiliary subunits on AMPAR function in hippocampus and thalamus**
Jakob von Engelhardt (Heidelberg)

Poster Session 01

17:30–19:30, 1st Floor

see detailed room allocation below

Posters assigned to following topics will be presented:

Poster Topic 01	Presynaptic Mechanisms & Pain
Poster Topic 02	Basal Ganglia, Dopamine & Other
Poster Topic 03	Glia Cells & Stem Cells
Poster Topic 04	Ion Channels I: K⁺, Connexin
Poster Topic 05	Ion Channels II: Cav, TRP, P2X
Poster Topic 06	Ion Channels & Transporters
Poster Topic 07	Renal Adaption
Poster Topic 08	Cellular Barriers & Inflammation
Poster Topic 09	Hypoxia – ROS
Poster Topic 10	Model Systems in Cellular Physiology
Poster Topic 11	Smooth Muscle
Poster Topic 12	Cardiac Disease Mechanisms

Please note:

There will be no guided poster tour but main authors are requested to be present at their posters during the viewing session for discussions. The poster award committees will evaluate the poster presentations and award one poster prize per topic. A list with the winners' names will be displayed after the poster session at the registration desk.

Poster Award Ceremony:

The winners of both Thursday and Friday poster awards will be officially announced on **Saturday, 5 March** directly after the plenary lecture at **09:30h**.

Poster Areas:

Foyer, 1st Floor	Poster Topics 01, 02, 03, 04
Seminar room S3	Poster Topics 05, 06, 07, 08
Seminar room S1	Poster Topics 09, 10, 11, 12

Poster Topic 01

Foyer, 1st floor

Presynaptic Mechanisms & Pain

Chairs: Michael Fischer (Erlangen)

Frank Richter (Jena)

- P01-01** Cerulean: A genetically encoded fluorescent protein for monitoring real-time acidification of glutamatergic synaptic vesicles with multiphoton fluorescence lifetime imaging microscopy
F. Beinlich, R. Guzman, T. Gensch, C. Fahlke
- P01-02** The SNAP-25 linker is an integral regulator of SNARE-mediated exocytosis
A. Shaaban, W. Frisch, M. Dhara, D. Bruns, **R. Mohrmann**
- P01-03** A potential presynaptic role of Glra3 in regulation of glycinergic synaptic inhibition to hypoglossal motoneurons
Y. Kono, **S. Hülsmann**
- P01-04** Investigation of presynaptic plasticity at hippocampal mossy fiber active zones using structured illumination microscopy
M. Sharifi, M. Pauli, M. M. Paul, M. Sauer, M. Heckmann, A.-L. Sirén
- P01-05** Searching for vesicular/cytoplasmic binding partners of the presynaptic active zone protein Bruchpilot *in vivo*
N. Scholz, N. Ehmann, C. Stigloher, T. Langenhan, R. J. Kittel
- P01-06** Molecular mechanism of large dense core vesicle dead-end docking in mouse chromaffin cells
E. Dembla, R. Mohrmann, D. Bruns, J. Rettig, **U. Becherer**
- P01-07** Cisplatin-induced neuropathic pain is mediated by N-type voltage-gated calcium channels
M. Leo, L. - I. Schmitt, M. Erkel, M. Melnikova, J. Thomale, T. Hagenacker
- P01-08** Optimization of stem cell culture conditions for maintenance and differentiation into peripheral neurons
A. Foerster, **E. Bressan**, J. Meents, M. Hampl, A. Lampert
- P01-09** Characterization of rat spinal dorsal horn neurons responsive to laser-induced heat stimulation of the skin
P. Nuñez-Badinez, U. Hoheisel, W. Greffrath, R. - D. Treede

- P01-10** Oxaliplatin modulates subtypes of voltage-gated calcium channel currents in small DRG neurons
L. - I. Schmitt, M. Leo, T. Hagenacker
- P01-11** Cinnamaldehyde reduces voltage-gated calcium channel currents in dorsal root ganglion neurons of rats TRPA1-independently
E. Mombeck, M. Leo, L. - I. Schmitt, C. Nativi, T. Hagenacker
- P01-12** Serotonin activates a heterogeneous population of cultured rat dorsal root ganglion neurons
D. Domocos, T. Selescu, E. Carstens, A. Babes
- P01-13** Pain-related changes of network oscillations in mice
S. Ponsel, J. Brankačák, A. Draguhn
- P01-14** Munc13-3 is a developmental mediator of tight coupling between release sensor and P/Q-type channels
V. Kusch, D. Baur, G. Bornschein, J. Eilers, H. Schmidt

Poster Topic 02

Foyer, 1st floor

Basal Ganglia, Dopamine & Other

Chairs: Stefan Gründer (Aachen)

Rüdiger Köhling (Rostock)

- P02-01** Dopamine promotes the emergence of rhythmical ripple-like events in prefrontal cortex of mice
J. Neugebauer, C. Gebhardt, J. R. P. Geiger
- P02-02** Neural correlates of working memory in the mouse prefrontal cortex and ventral tegmental area
S. Duvarci, T. Sigurdsson, J. Roeper
- P02-03** Early and localized expression of ion channels and ion channel subunits in the developing mesodiencephalic dopaminergic domain of the mouse embryo
S. Götz, B. Rauser, C. Brodski, **N. Prakash**
- P02-04** Cortico-striatal microfluidic co-culture for the investigation of the role of acid-sensing ion channels in synaptic transmission
A. Reska, B. Haberkorn, K. Zobel, A. Offenhäusser, B. Falkenburger, S. Gründer

Poster Topic 03

Foyer, 1st floor

Glial Cells & Stem Cells

Chairs: **Christian Lohr** (Hamburg)
Christian Alzheimer (Erlangen)

- P03-01** Importance of the microenvironment stiffness for the development of neuronal and Schwann cells in the Peripheral Nervous System
G. Rosso, D. Röhr, I. Liashkovich, P. Young, V. Shahin
- P03-02** Involvement of OATP1C1 in labeling of oligodendrocytes with SR101
L. Hagos, **S. Hülsmann**
- P03-03** Glycine uptake *via* Sodium/Neutral Amino Acid Transporters activates a swelling-dependent anion conductance in microglial cells
M. Kittl, M. Ritter, H. Kerschbaum, M. Jakob
- P03-04** Panglial gap-junctional coupling mediates calcium signalling between olfactory bulb glial cells
A. Beiersdorfer, D. Droste, C. Lohr
- P03-05** Ca²⁺-permeable AMPA receptors in periglomerular astrocytes of the mouse olfactory bulb
D. Droste, L. Seddar, G. Seifert, C. Steinhäuser, C. Lohr
- P03-06** Significance of Succinate dehydrogenase for glucose metabolism in murine astrocytes
P. Schulte-Mecklenbeck, M. Düfer
- P03-07** The soluble epoxide hydrolase attenuates pathological vascularization by preventing astrocytes loss in retinopathy of prematurity in mice
J. Hu, S. Dziumbila, R. Popp, J. Lin, H. - P. Hammes, I. Fleming
- P03-08** Features of CD157 and CD38 expression in neurogenic niches of the brain in experimental Alzheimer's disease
Y. Komleva, Y. Gorina, O. Lopatina, A. Shuvaev, N. Malinovsky, A. Chernykh, A. Salmina
- P03-09** A knock-in mouse model for episodic ataxia carrying a gain-of-function mutation in a glial EAAT anion channel
P. Kovermann, V. Untiet, C. Fahlke

- P02-05** Dynamic-clamp-induced burst discharges in dopamine neurons of the rostromedial substantia nigra *in vitro*
J. Shin, M. Subramaniam, C. Paladini, J. Roeper
- P02-06** Full recovery of spontaneous turning bias in an unilateral Intrastratial 6-OH-dopamine mouse model of Parkinson
L. Kovacheva, K. M. Costa, N. Farassat, J. Roeper
- P02-07** N-oleoyldopamine (OLDA) modulates activity of central aminergic neurons through multiple and region-specific mechanisms
R. de Luca, **O. A. Sergeeva**
- P02-08** Distinct types of voltage-gated calcium channels sensitize inhibitory dopamine D2-autoreceptor responses of *Substantia nigra* dopaminergic neurons
C. Pötschke, J. Duda, J. Benkert, E. Dragicevic, A. Glebova, J. Nehmet, O. Pongs, T. Schneider, T. Frank, T. P. Snutch, J. Striessnig, B. Liss
- P02-09** *In vivo* recording of identified projection-specific subtypes of midbrain dopamine neurons
N. Farassat, J. Roeper, S. Mahalakshmi
- P02-10** Spike train pause detection in midbrain dopamine neurons: identifying the selective effects of KCHIP4 knock-out
K. M. Costa, M. Messer, M. Subramaniam, G. Schneider, J. Roeper
- P02-11** Psychosocial stress promotes food intake via modulation of brain energy content
A. Kistenmacher, J. Goetsch, D. Ullmann, E. K. Wardzinski, J. C. Martens, G. Gohla, U. H. Melchert, K. Jauch-Chara, K. M. Oltmanns
- P02-12** Hampered brain energy gain upon glucose load in obesity
E. K. Wardzinski, G. Gohla, A. Kistenmacher, J. C. Martens, U. H. Melchert, K. Jauch-Chara, K. M. Oltmanns
- P02-13** Lifespan leisure activity profile and its relation to brain metabolism in the elderly
T. Engeroff, L. Vogt, J. Fleckenstein, E. Füzéki, S. Schwarz, S. Matura, U. Pilatus, B. Lienerth, K. Dietz, B. Lienerth, V. Tesky, E. Hattingen, R. Deichmann, J. Pantel, W. Banzer

P03-10 Optimizing the experimental conditions for neuronal differentiation of human pluripotent embryonal carcinoma (NT2) stem cells

S. Abolpour Mofrad, K. Kuenzel, O. Friedrich, D. F. Gilbert

P03-11 Characterisation of sweat gland derived stem cells for the application in peripheral nerve regeneration

J. M. Klemens, T. Sturmheit, M. Brandenburger

P03-12 Functional phenotyping of human induced pluripotent stem cell-derived neurons

J. Rosner, S. Horschitz, U. Binzen, W. Greffrath, R. - D. Treede, J. Utikal, P. Schloss, A. Meyer-Lindenberg

P03-13 Evidences for the molecular and cellular heterogeneity of stem-like glioma cells in human glioblastomas and gliosarcomas

E. Hirseland, H. Zehnle, V. Beil, J. Thoms, C. Geisler, S. Elsemann, V. Tronnier, **C. Zechel**

Poster Topic 04

Foyer, 1st floor

Ion Channels I: K⁺, Connexin

Chairs: Heinrich Brinkmeier (Greifswald)
Heimo Ehmke (Hamburg)

P04-01 R59022: From diacylglycerol-kinase inhibitor to a potent modulator of K⁺ channels

B. Wilke, M. Dierich, K. Koschinsky, M. G. Leitner, D. Oliver

P04-02 Poster will not be presented.

P04-03 Cell-free expression of two-pore domain potassium channels for use in bilayer experiments

S. Buck, M. Musinszki, T. Baukrowitz

P04-04 Pharmacological activation of K_{2P} channels

M. Tegtmeier, F. Schulz, M. Schewe, M. Musinszki, B. C. Jürs, S. Cordeiro, T. Baukrowitz

P04-05 Functional interaction of calcium-activated potassium channels of high conductance and T-type calcium channels transforms phasic into tonic contractility in vascular smooth muscle cells

B. Müller, A. Kremers, T. Moutsis, J. Schumacher, P. Wohlfahrt, R. Schubert

P04-06 The Ca²⁺-activated potassium channel K_{Ca}3.1 in the metastatic cascade of A549 non-small cell lung cancer cells

E. Bulik, M. Wälte, V. Hofschroer, A. Schwab

P04-07 Functional expression of inward rectifier K⁺ currents in glioma cells

A. Madadi, S. Müller, T. Kirschstein, H. Brehme, M. Linnebacher, J. Wolfart, R. Köhling

P04-08 Heteromeric KCNJ10 and KCNJ16 potassium channels: Functional consequences of the rare KCNJ16 variant p.R35Q

C. Quintanova, S. Afonso, A. - L. Forst, M. Konrad, R. Warth

P04-09 Expression and localization of KCNJ16 in various mouse tissues

C. Quintanova, C. Sterner, S. Afonso, C. Meier, A. - L. Forst, R. Warth

P04-10 SPAK and OSR1 Sensitive Kir2.1 K⁺ Channels

M. Fezai, M. Ahmed, Z. Husseinzadeh, B. Elvira, F. Lang

P04-11 Erg1-mediated K⁺ currents in auditory inner hair cells

M. Dierich, S. Kirchof, V. Renigunta, M. G. Leitner, D. Oliver

P04-12 Cx43 mediated augmentation of cell motility is associated with enhanced focal adhesion turnover and reduced stress fibres formation

K. Pogoda, P. Kameritsch, U. Pohl

P04-13 The inhibitory effect of NO on Cx37-dependent intercellular calcium signaling targets the phosphorylation state of tyrosine 332

P. Kameritsch, K. Pogoda, U. Pohl

P04-14 Functional analysis of the cataract related mutation N188T in human connexin46 (hCx46)

P. Schadzek, B. Schlingmann, F. Schaarschmidt, A. Heisterkamp, M. Koval, M. Preller, A. Ngezahayo

P04-15 **Concatemeric connexins build functional hemichannels and gap junction channels**

D. Hermes, P. Schadzek, A. Ngezahayo

P04-16 **PKA dependent phosphorylation of the C-terminal part of Connexin 43 reduces cell migration**

F. Kiemer, U. Pohl, K. Pogoda

Poster Topic 05

Seminar room S3

Ion channels II: Ca_v, TRP, P2X

Chairs: Nikolaj Klöcker (Düsseldorf)

Birgit Liss (Ulm)

P05-01 **Quantitative analysis of distribution of dendritic Ca_v1.2 (L-type) Ca²⁺ channels relative to mGluR1α in hippocampal interneurons**

D. Loreth, A. Kulik

P05-02 **Corticosteroids and insulin upregulate the cardiac L-type Ca²⁺ current and increase the expression of the L-type Ca²⁺ channel α_{1C}-subunit in rat cardiomyocytes**

E. Rudakova, M. Wagner, **T. Volk**

P05-03 **Ca_v2.3 voltage-gated Ca²⁺ channels in atrioventricular signal transduction**

E. Tevoufouet, E. Nembo, J. Hescheler, T. Schneider

P05-04 **Expression of transmembrane channel-like gene 6 is significantly higher in skeletal muscles of *mdx* mice than in wild type animals**

M. Landsberger, K. Rehder, H. Kenk, M. Krautwald, H. Brinkmeier

P05-05 **Opioid receptor activation causes inhibition of TRPM3 channels in the peripheral nervous system**

S. Dembla, M. Behrendt, F. Mohr, J. Oberwinkler

P05-06 **TRPV4 (transient receptor potential vanilloid 4) ion channel activity is stimulated by an increase in intracellular cAMP**

T. D. Pessoa, T. Abu Abida, C. Korbmacher, **S. Haerteis**

P05-07 **TRPC1 regulates fMLP-stimulated migration and chemotaxis of neutrophils**

O. Lindemann, C. Strodthoff, M. Horstmann, N. Nielsen, F. Jung, S. Schimmelpfennig, N. Karoline, M. Heitzmann

P05-08 **Cellular and molecular relevance of classical transient receptor potential 1 in chronic hypoxia-induced pulmonary vascular remodeling**

M. Malczyk, B. Fuchs, R. T. Schermuly, K. Ahlbrecht, W. Seeger, T. Gudermann, A. Dietrich, N. Weißmann, C. Veith

P05-09 **Flavonoid inhibition of TRPM8 and activation of TRPA1**

T. Selescu, D. Domocos, C. Dinica, L. Maier, E. Carstens, A. Babes

P05-10 **Modulatory role of bile acids on the signaling of purinergic receptors in normal rat cholangiocytes (NRCs)**

D. Löhrrer, A. Schmidt, S. Gründer, D. Wiemuth

P05-11 **Investigation of functional interaction of purinergic P2X4 and P2X7 receptors**

K. Prudic, A. Pippel, M. Stolz, U. Braam, C. Müller, G. Schmalzing, F. Markwardt

P05-12 **Physical interaction of purinergic P2X4 and P2X7 receptors**

M. Schneider, M. Klapperstück, N. Bley, M. Stolz, M. Schumacher, G. Schmalzing, F. Markwardt

P05-13 **Role of G338 of the second transmembrane domain in gating of the human P2X7 receptor**

N. Zipfel, **A. Pippel**, A. Kless, G. Schmalzing, F. Markwardt

P05-14 **Differential effects of phosphocholine on metabotropic and ionotropic nicotinic receptors containing subunit CHRNA9**

K. Richter, V. Matthes, A. Hecker, M. Althaus, M. Fronius, W. Padberg, M. J. McIntosh, A. Zakrzewicz, V. Grau

Poster Topic 06

Seminar room S3

Ion Channels & Transporters

Chairs: Klaus Benndorf (Jena)
 Christoph Fahlke (Jülich)

- P06-01** **Prestin: Investigation of the central cavity by a cysteine accessibility study**
J. Hartmann, F. Nies, D. Gorbunov, D. Oliver
- P06-02** **The role of non-specific cation channels in spontaneous activity and tone of smooth muscle**
R. Patejdl, C. Adams, T. Noack
- P06-03** **Evidence for channel-mediated transport of NH_4^+ across ruminal epithelia of Sahiwal and Holstein-Friesian cattle**
 I. Rabbani, H. - S. Braun, J. Rosendahl, T. Akhtar, H. Ur-Rehman, **F. Stumpff**
- P06-04** **Decreased barrier function of tight junctions enhances the gap junction coupling in intestinal epithelial cells**
A. Becker, I. Hertrampf, J. Müller, A. Ngezahayo
- P06-05** **The expression and function of anoctamin 2 in the retinal pigment epithelium**
S. Keckeis, N. Reichhart, O. Strauß
- P06-06** **Na^+ recirculation drives high-rate volume resorption in an airway epithelium – insights from in-silico modelling**
M. Fauler, H. Schmidt, M. Frick, P. Dietl, O. H. Wittekindt
- P06-07** **Differential Cl^- secretion triggered by luminally applied ATP and acetylcholine in porcine airway epithelium**
N. Dittrich, M. Fronius
- P06-08** **Chitosan-based delivery of mRNA for cystic fibrosis therapy**
K. Kolonko, E. Fernández Fernández, B. Santos-Carballal, F. M. Goycoolea, W. - M. Weber
- P06-09** **Paracellular phosphate permeability in the intestine**
T. Knöpfel, N. Himmerkus, D. Günzel, M. Bleich, N. Hernando, C. A. Wagner
- P06-10** **Potential role for astrocytic and neuronal monocarboxylate transporters in epilepsy**
L. S. Forero Quintero, H. M. Becker, J. W. Deitmer

- P06-11** **High glucose increases transport capacities of the human organic cation transporters hOCT1 and hOCT2 and of the human multidrug and toxin extrusion transporter hMATE1 expressed in HEK293 cells**
J. Menne, M. Steinbüchel, G. Ciarrimboli, **E. Schlatter**

- P06-12** **'Proton antennae' facilitate lactate flux by monocarboxylate transporters**
S. I. Noor, H. Heidtmann, C. D. Boone, R. McKenna, J. W. Deitmer, H. M. Becker

Poster Topic 07

Seminar room S3

Renal Adaption

Chairs: Gerhard Burckhardt (Göttingen)
 Michael Gekle (Halle)

- P07-01** **Gene expression patterns associated with the phenotypic switch of renin cells**
C. Karger, B. Neubauer, V. Todorov, C. Hugo, A. Kurtz
- P07-02** **Relation of Renin related genes from the literature and from high throughput gene expression experiments**
B. Rumpf, S. Reuter, M. Haltmeier, B. Mrowka
- P07-03** **Kidney phenotype of mice with VEGF deficiency in renin-producing cells**
N. Jetschin, A. Steglich, P. Lachmann, L. Hickmann, B. Hohenstein, C. Hugo, V. Todorov
- P07-04** **Aliskiren and kidney function**
H. Pagel, C. Tscherpel, R. Patejdl, T. Noack
- P07-05** **Erastin induced ferroptosis in isolated perfused proximal tubules**
N. Himmerkus, A. Linkermann, S. Krautwald, U. Kunzendorf, M. Bleich
- P07-06** **The role of prostaglandins in renal blood flow autoregulation**
 P. Zink, **A. Just**

P07-07 High K⁺ intake induces hypertension independently of MR and ENaC activation in sodium replete mice
H. Vitzthum, C. Marx, A. Seniuk, H. Ehmke

P07-08 The C-terminal fragment of agrin (CAF), a novel marker of renal function, is filtered by the kidney and reabsorbed by the proximal tubule
A. Daryadel, M. Haubitz, M. Figueiredo, D. Steubl, M. Roos, A. Mäder, S. Hettwer, C. A. Wagner

P07-09 Kidney phenotype of uninephrectomized mice with induced renin deficiency or renin cell ablation
A. Steglich, L. Hickmann, A. Lüdemann, B. Hohenstein, C. Hugo, V. Todorov

P07-10 Effect of ferumoxyl on control of renal hemodynamics and oxygenation in rats
F. Ferrara, K. Cantow, A. Pohlmann, B. Flemming, A. Skalweit, M. Ladwig, S. Waiczies, T. Niendorf, E. Seeliger

P07-11 Simultaneous measurements by near-infrared spectroscopy and invasive probes yield complementary informations about control of renal haemodynamics and oxygenation
K. Cantow, D. Grosenick, B. Flemming, H. Wabnitz, T. Niendorf, F. Ferrara, E. Seeliger

P07-12 Dietary intake of phosphate stimulates renal salt absorption and increases blood pressure
A. Daryadel, N. Mohebbi, U. Schnitzbauer, N. Gehring, M. Föller, F. Lang, J. Loffing, C. A. Wagner

P07-13 Examining renal adaptation to changes in dietary phosphate intake in humans by use of urinary extracellular vesicles ('exosomes')
B. Gludemans, N. Mohebbi, C. A. Wagner

Poster Topic 08

Seminar room S3

Cellular Barriers & Inflammation

Chairs: Thomas Noll (Dresden)
Voahanginirina Randriamboavonjy (Frankfurt)

P08-01 Inhibition of microtubule polymerization affects actin coat formation on the fused secretory vesicles in alveolar type II cells
R. Schempp, T. Felder, P. Dietl, P. Miklavc

P08-02 Mechanobiophysics of the alveolus – Reconstruction of strain and forces at the gas-blood-barrier
S. Tavakoli, S. Rapp, M. Fauler, V. E. Winkelmann, M. Frick, K. E. Gottschalk, N. Hobi

P08-03 Interfacial sensing regulates alveolar barrier function in lung epithelial monolayer
D. Korejwo, V. E. Winkelmann, K. E. Gottschalk, P. Dietl, M. Frick, T. Haller, N. Hobi

P08-04 Effects of hydrostatic pressure on epithelial cells: establishing a modified Ussing chamber technique
K. Mießler, A. G. Markov, **S. Amasheh**

P08-05 Establishment of a co-culture to mimic the alveolar-capillary barrier *in vitro*
V. E. Winkelmann, F. Grebl, N. Hobi, P. Dietl, M. Frick

P08-06 Interleukin-13 disturbs barrier function in human lung epithelia
H. Schmidt, K. Thompson, M. Frick, P. Dietl, O. H. Wittekindt

P08-07 Effects of milk on the porcine intestinal barrier function
J. Radloff, **S. Amasheh**

P08-08 Effect of inflammatory factors on air liquid interface epithelia
L. Nonnenmacher, H. Schmidt, V. E. Winkelmann, B. Mizai-koff, M. Huber - Lang, M. Frick, P. Dietl, O. H. Wittekindt

P08-09 Comparative analysis of cholera toxin and lipopolysaccharide effects on rat small intestinal epithelial cells by TEM
O. V. Rybalchenko, O. N. Vishnevskaya, O. G. Orlova, A. G. Markov, J. R. Aschenbach, **S. Amasheh**

P08-10 Impact of casein kinase 2 on transcriptional mineralocorticoid receptor activity

S. Ruhs, N. Strätz, A. Masch, M. Schutkowski, M. Gekle, C. Großmann

P08-11 The role of JAK/STAT signaling pathway and TNF- α crosstalk in human colorectal cancer

N. Erkasap, R. Ozyurt, M. Ozkurt, F. Yasar, S. M. Erkasap, E. Ihtiyar

P08-12 Proof of principle – an *in-vitro* model to compare the efficiency of therapeutically applied anti-TNF- α antibodies

T. Hellwig-Bürgel, M. Özkurt, W. Jelkmann

P08-13 Expression of inflammatory mediators is susceptible to extracellular acidosis in monocyte- and macrophage-like cell lines and primary cells

A. Riemann, H. Wußling, H. Loppnow, H. Fu, S. Reime, O. Thews

P08-14 The protein-tyrosine phosphatase SHP-2 counteracts IL-1 β induced endothelial inflammation

Y. Stampnik, F. Krötz, J. Pircher, A. Kretschmann, U. Pohl, H. Mannell

P08-15 15-Deoxy- $\Delta^{12,14}$ -prostaglandin J₂ reinforces the anti-inflammatory capacity of endothelial cells with a genetically determined nitric oxide deficit

I. Kadiyska, S. Gehrman, J. Morgenstern, T. Fleming, F. Leuschner, A. H. Wagner, M. Hecker

Poster Topic 09

Seminar room S1

Hypoxia – ROS

Chairs: Joachim Fandrey (Essen)

Ingrid Fleming (Frankfurt)

P09-01 Molecular mechanisms of the cytotoxic action of Erufosine in hypoxic tumor cells

H. Riffkin, S. Oeck, R. Handrick, E. Metzen, V. Jendrossek

P09-02 Fumaric acid esters improve blood-brain barrier integrity and neuronal survival during cerebral ischemia-reperfusion injury

R. Kunze, J. Lin-Holderer, H. H. Marti

P09-03 High-resolution respirometry on proximal tubules from mice

R. Schmitt, **J. Wiesner**, C. Christ, A. Albrecht, M. Reichold

P09-04 Does metabolic stress preferentially affect fast spiking interneurons?

G. C. Gotti, L. A. Hasam Henderson, B. Wu, J. R. P. Geiger, R. Kovacs

P09-05 Ingenol pre-conditioning protects against inflammation- and hypoxia/reoxygenation-induced loss of endothelial barrier function

M. Aslam, S. Rohrbach, R. Schulz, C. Hamm, D. Gündüz

P09-06 Hydrogen peroxide formation by Nox4 limits malignant transformation

V. Helfinger, S. Harenkamp, N. Henke, M. Walter, R. P. Brandes, K. Schröder

P09-07 The endoplasmic reticulum chaperone calnexin is a NADPH oxidase Nox4 interacting protein

K. - K. Prior, I. Wittig, R. P. Brandes

P09-08 Quantitative redox imaging in complex preparations by dual-laser based excitation ratiometric 2-photon microscopy

L. Terwitte, K. Kizina, **M. Müller**

P09-09 Knock out of the NADPH oxidase protein NoxO1 protects from dextrane sodium sulfate (DSS)-induced colitis

F. Moll, J. Vogel, F. von Gall, H. H. Radeke, K. Schröder

P09-10 Novel redox-targets of NADPH oxidase 4

O. Löwe, J. Heidler, I. Wittig, R. P. Brandes

P09-11 What NADPH-stimulated chemiluminescence assays indeed detect? Lessons from a Nox1-Nox2-Nox4 triple knockout

F. Rezende, O. Löwe, V. Helfinger, K. - K. Prior, M. Walter, S. Zukunft, I. Fleming, N. Weißmann, R. P. Brandes, K. Schröder

P09-12 Transcriptional regulation of NADPH Oxidase 4 (NOX4) – Implication of JUN- and NFAT like elements

F. Engelmann, C. Brunssen, H. Morawietz

P09-13 The AMPK α 2 regulates neutrophil mitochondrial metabolism, apoptosis and post-ischemic revascularization through modulation of the HIF-1 α pathway

R. Abdel Malik, N. Zippel, J. Heidler, I. Wittig, B. Fißthaler, I. Fleming

Poster Topic 10

Seminar room S1

Model Systems in Cellular Physiology

Chairs: **Markus Hecker** (Heidelberg)
Dörthe Katschinski (Göttingen)

P10-01 Towards the generation of an organotypic human sweat gland model system

J. Kier, A. E. Matthießen, N. Nissen, T. Sturmheit, M. Brandenburger

P10-02 PAFAH1B1 is important for endothelial cell angiogenic function

I. Josipovic, M. S. Leisegang, C. Fork, J. Preussner, M. Looso, R. P. Brandes

P10-03 Evaluation of dynamic changes of Connexin43 in endothelial cells using non-canonical amino acid tagging

A. Klett, A. Bader, K. J. K. Schmitt, A. Ngezhahoy

P10-04 Phosphatidylinositol-(4,5)-bisphosphate sensors target functionally distinct plasma membrane microdomains

V. Thallmair, M. G. Leitner, C. R. Halaszovich, D. Oliver

P10-05 Effect of changes in cell volume and cell plasma membrane area on membrane protein density determination

A. Gesper, B. A. Igelhorst, H. M. Leßlich, D. Thatenhorst, P. Happel, I. D. Dietzel

P10-06 Mitochondria of pancreatic beta cells exhibit different behaviour to glucose dependent on their local distribution

R. Wiggers, M. Düfer

P10-07 Influence of the adiponectin paralogs CTRP9 and CTRP13 on the insulin signaling pathway in adult rat cardiomyocytes

L. Li, M. Buttler, D. Siegler, B. Niemann, S. Rohrbach

P10-08 Quercetin stimulates insulin secretion and reduces viability of INS-1 rat insulinoma cells

M. Jakob, M. Kittl, M. Tumurkhuu, S. Glasl, M. Ritter, H. Kerschbaum

P10-09 Nocodazole Induced suicidal death of human erythrocytes

E. Signoretto, S. Honisch, M. Briglia, C. Faggio, M. Castagna, F. Lang

P10-10 Effects of retinoid-X receptor- (RXR-) and retinoic acid receptor (RAR) isoform-selective synthetic retinoids on cultures of stem-like glioma cells

V. Sternberg, N. Mamczak, S. Hanika, T. Lindemann, V. Tronnier, C. Zechel

P10-11 Cisplatin (CDDP) induces modification of the intracellular calcium signaling in SH-SY5Y neuroblastoma cells: the role of calcium regulating proteins

D. Büsselberg, E. Varghese, A. - M. Florea

P10-12 Combinatory treatment with anticancer drugs (cisplatin (CDDP), topotecan (TOPO)) and pharmacological modulators of calcium signaling enhances cytotoxic effects in human neuroblastoma cells

A. - M. Florea, G. Reifenberger, D. Büsselberg

P10-13 The LncRNA HIF1 α -AS1 mediates the response to acriflavine in human endothelial cells

M. S. Leisegang, C. Fork, J. Preussner, M. Looso, R. P. Brandes

P10-14 Evaluation of Animacroxam, a newly developed dual-mode compound for the treatment of testicular germ cell cancer

G. Steinemann, W. Kuzyniak, B. Nitzsche, B. Hoffmann, **M. Höpfner**

Poster Topic 11

Seminar room S1

Smooth Muscle

Chairs: Gabriele Pfitzer (Köln)

Ulrich Pohl (München)

P11-01 Expression of Rho kinase and myosin-light chain kinase in the aging human detrusor

T. Kirschstein, K. Kernig, T. Sahre, O. Hakenberg, R. Köhling

P11-02 Endothelial atrial natriuretic peptide signalling attenuates chronic hypoxia-induced pulmonary hypertension and inflammation

F. Werner, B. Kojonazarov, B. Gaßner, M. Abeßer, K. Schuh, K. Völker, H. A. Baba, B. K. Dahal, M. Kuhn

P11-03 Cigarette smoke extract abrogates atheroprotective effects of high laminar flow on endothelial function

S. Giebe, N. Cockcroft, K. Hewitt, M. Brux, H. Morawietz, C. Brunssen

P11-04 Production of ACE-inhibiting dipeptide isoleucine-tryptophan and its role in prevention of hypertension

L. Michelke, M. Martin, A. Deussen

P11-05 Improved vascular function after mineralocorticoid receptor antagonist therapy in patients with coronary artery disease

M. Cybularz, H. Langbein, B. Zatschler, C. Brunssen, A. Deussen, K. Matschke, H. Morawietz

P11-06 Bioavailability of the ACE-inhibiting peptide Isoleucine-Tryptophan after oral intake of whey hydrolysate in man

M. Martin, P. Dieterich, D. Lunow, T. Henle, A. Deussen

P11-07 K_{ATP} channels contribute to VSMC membrane potential in distal renal interlobar arteries

P. Heumann, A. Koenen, R. Rettig, O. Grisk

P11-08 Influence of gap junctional communication on microvascular network of the chicken chorioallantoic membrane

B. Nitzsche, W. Bintig, M. Maibier, W. Xiang, W. W. Rong, M. Höpfner, B. Reglin, A. R. Pries

P11-09 Frequency-dependent synaptic fatigue causes instability of neurogenic tone in rat inferior vena cava

L. Rustenbeck, H. - B. Heinrich, T. Noack, R. Patejdl

P11-10 Importance of transmembranal calcium influx and calcium release from SR during isobaric (meiotonic) contractions in smooth muscle

M. Prütz, R. Patejdl, T. Noack

P11-11 Impact of the adiponectin paralog CTRP13 on endothelial cells

M. Aslam, S. Nürnberger, L. Li, B. Niemann, S. Rohrbach

P11-12 Key role of NADPH oxidase 4 in a model of reversible endothelial dysfunction

H. Langbein, A. Hofmann, H. Morawietz, C. Brunssen

P11-13 Inhibition of eNOS phosphorylation on tyrosine656 in mice protects against endothelial dysfunction

J. Steck, B. Fißthaler, K. de Silva, B. Luck, K. Kohlstedt, I. Fleming

P11-14 Effects of mineralocorticoid receptor blockade by spironolactone on vascular calcification

S. S. Buehling, I. Alesutan, M. Feger, J. Voelkl, F. Lang

P11-15 VASP, but not EVL, is required for the conduction of endothelium-dependent dilations *in vivo*

P. Poley, P. Benz, I. Fleming, C. de Wit

Poster Topic 12

Seminar room S1

Cardiac Disease Mechanisms

Chairs: **Niels Decher** (Marburg)
Wolfgang Linke (Bochum)

- P12-01** **Reduced maximal contraction and contraction velocity in hearts of mice lacking a mechanism for isoproterenol-induced proteasome regulation**
F. A. Trogisch, F. Koser, L. Gaal, M. Hecker, **O. Drews**
-
- P12-02** **Interleukin-6 mediates titin phosphorylation and could be involved in the rapid increase in cardiomyocyte stiffness in the acute phase after myocardial ischemia/reperfusion**
M. Kazmierowska, S. Kötter, S. Goessen, J. Moll, J. Scheller, J. Schmitt, M. Krüger
-
- P12-03** **Gender- and age-based differences of cardiovascular remodelling in spontaneously hypertensive rats (SHR)**
S. Al-Gburi, I. Kopalani, B. Zatschler, R. Galli, M. Kasper, A. Deussen
-
- P12-04** **Alterations in gene expression levels due to heart failure in cardiac p38 MAPKinase KO mice**
M. Pfeffer, K. Bottermann, L. M. Leitner, J. Nemmer, J. Stegbauer, R. Deenen, K. Köhrer, A. Gödecke
-
- P12-05** **The insulin-like growth factor 1 receptor in cardiomyocytes is dispensable for the beneficial effect of insulin-like growth factor 1 on the left ventricular function after myocardial infarction**
A. Heinen, A. Raupach, K. Bottermann, S. Gödecke, R. Niederlof, A. Gödecke
-
- P12-06** **Pressure-independent cardiac protective actions of C-type natriuretic peptide in experimental hypertensive heart disease**
K. Michel, F. Werner, E. Prentki Santos, M. Abeßer, K. Völker, H. A. Baba, K. Schuh, M. Kuhn
-
- P12-07** **Anti-fibrotic and anti-inflammatory effects of C-type natriuretic peptide in a genetic model of hypertension**
E. Prentki Santos, M. Gómez, G. Bouchet, D. González Maglio, C. Caniffi, J. Toblli, C. Arranz

- P12-08** **Lysyl oxidase in cardiac fibrosis**
R. Schreckenber, M. Rebelo, S. Rohrbach, B. Niemann, K. - D. Schlüter
-
- P12-09** **Regulation of cardiac autophagy by SPRED2**
B. Abmus, M. Ullrich, A. Augustin, M. Abeßer, A. Unger, H. A. Baba, K. Schuh
-
- P12-10** **miR-221/222 in heart hypertrophy**
S. Binas, M. Hünnerberg, S. Rabe, S. Mildenerberger, M. Gekle, C. Großmann, B. Schreier
-
- P12-11** **MicroRNA 208b in epidermal growth factor receptor-mediated changes in the heart**
J. Hupfeld, S. Binas, K. Quarch, S. Rabe, M. Gekle, C. Großmann, B. Schreier
-
- P12-12** **Echocardiographic analysis of ejection fraction after myocardial infarction in mice – Validation of single-plane parasternal long axis view measurements and the bi-plane Simpson method**
A. Raupach, U. Flögel, N. Hölscher, R. Huhn, A. Gödecke, A. Heinen

Get-Together

from 19:00

in the poster and industrial exhibition
 (see page 13 for more information)

Workshop 02

10:00–11:00, Seminar room S4

Funding Opportunities for Young Scientists – Do's and Don'ts for DFG-Proposals

Chairs: **Andreas Draguhn** (Heidelberg)
Armin Kurtz (Regensburg)

The workshop shall introduce the main funding programs of the DFG (Deutsche Forschungsgemeinschaft). Based on our experience as reviewers and board members of the DFG, we will then discuss some informal aspects which might be important for successful applications.

We will specifically address questions of young scientists who are not experienced in interactions with the DFG. Therefore, considerable time will be reserved for questions and discussion.

Friday, March 4, 2016

DPG Membership Assembly

08:30–10:00, Hall AM1

Agenda

1. Beschlussfähigkeit – Feststellung der Tagesordnung	Treede
2. Gedenken an verstorbene Mitglieder	Treede
3. Bericht des 1. Tagungsvorsitzenden	Jelkmann
4. Bericht des Generalsekretärs	Brandes
5. Kassenprüfung im Jahr 2015	Lang
6. Wahl Programmkomitee, Panels 1 und 5	Treede
7. Berichte der Projektgruppe Lehre	Schubert
8. Bericht über FEPS und IUPS	Hecker
9. Bericht aus Delegiertenversammlungen AWMF und VBIO	Pfitzer/Treede
10. Jahrestagung 2017 in Greifswald	Rettig
11. Jahrestagung 2018	Brandes
12. Verschiedenes	Jelkmann

Plenary Lecture 02 10:30–11:30, Hall AM1

Chair: **Ingrid Fleming** (Frankfurt)

10:30 PL-02 **Enhancing physiological signals to restore metabolic health**
Matthias H. Tschöp (München)

Plenary Lecture 03 11:30–12:30, Hall AM1

Chair: **Pontus Persson** (Berlin)

11:30 PL-03 **No time to lose: Epo regulation in high-altitude**
Roland Wenger (Zürich, Switzerland)

12:30–13:45 **Lunch break**

Meetings of the DPG Working Groups 12:45–13:45

The meetings will take place at the Institute of Physiology. The room allocation will be communicated on-site.

Symposium 07 (Special Topic) 13:45–15:45, Hall AM1

Of Mice and Men – Experimentation with Animals under the New Animal Protection Law

Chairs: **Gabriele Pfitzer** (Köln)
Rainer Nobiling (Heidelberg)

13:45 S07-1 **On relevance, repetition and reductionism – the principles of the 3Rs in life sciences**
Thomas Korff (Heidelberg)

14:05 S07-2 **Ethics and animal experiments**
Klaus-Dieter Schlüter (Giessen)

14:25 S07-3 **Lurking in the shadows: how animal facilities and experimental practices affect your research**
Esther Mahabir-Brenner (Köln)

14:45 S07-4 **Application for project authorisation-compliance of the project with the requirement of replacement, reduction and refinement**
Ulrike Reichert (Karlsruhe)

15:05 S07-5 **Carrying out procedures on animals: “Adequately educated and trained before (Art. 23 EU directive 2010/63)”? Theory and practice in legislation and animal research**
Barthel Schmelting (Lübeck)

15:20 S07-6 **The “Basel Declaration”**
Rainer Nobiling (Heidelberg)

15:25 **Panel Discussion with the speakers**

Symposium 08

13:45–15:45, Hall AM3

Hypoxic Regulation of Blood Cell Function

Chairs: Dörthe Katschinski (Göttingen)

Joachim Fandrey (Essen)

13:45 **S08-1** **Erythropoiesis and hemoglobin function: Impact on adaptation to hypoxia**
H. Franklin Bunn (Boston, USA)

14:15 **S08-2** **Formation of neutrophil and mast cell extracellular traps under low oxygen level**
Maren von Köckritz-Blickwede (Hannover)

14:45 **S08-3** **Hypoxia-inducible factor 1 determines dendritic cell function in colitis**
Katharina Flück (Essen)

15:15 **S08-4** **Prolyl-4-hydroxylase domain (PHD) is a critical terminator for cell survival of macrophages under stress conditions**
Liza Swain (Göttingen)

Oral Session 04

13:45–15:45, Hall AM2

Cellular and Molecular Neuroscience I

Chairs: Angelika Lampert (Aachen)

Jakob von Engelhardt (Heidelberg)

13:45 **OS04-1** **FRS1I is a central determinant of AMPA-receptor biogenesis and linked to severe intellectual disability**
A. Brechet, R. Buchert, J. Schwenk, S. Boudkkazi, G. Zolles, A. Kulik, L. Colleaux, R. A. Jamra, U. Schulte (Freiburg), B. Fakler

14:00 **OS04-2** **3D super-resolution mapping of synaptic proteins in brain tissue**
S. Proppert (Würzburg), M. Pauli, M. M. Paul, A. - L. Sirén, M. Sauer, M. Heckmann

14:15 **OS04-3** **Single action potentials trigger fast and clathrin-independent endocytosis at a central synapse**
I. Delvendahl (Leipzig), S. Hallermann

14:30 **OS04-4** **Dysfunction of thalamo-amygdala circuits and up-regulated TrkB/ERK-MAPK signaling leads to obsessive-compulsive-like behavior in SPRED2 KO mice**
M. Ullrich (Würzburg), M. Weber, A. Post, S. Popp, J. Grein, H. Guerrero, N. Üçeyler, K. Schuh

14:45 **OS04-5** **Coordination of innate behaviours by GABAergic cells in lateral hypothalamus**
M. Carus Cadavieco, M. Gorbati, S. van der Veldt, F. Ramm, F. Bender, A. Ponomarenko, T. Korotkova (Berlin)

15:00 **OS04-6** **Dendritic integration in Dentate Gyrus parvalbumin-expressing perisoma-inhibiting interneurons**
C. Elgueta (Freiburg), M. Bartos

15:15 **OS04-7** **Modular composition and dynamics of native GABA_A receptors identified by high-resolution proteomics**
J. Schwenk (Freiburg), E. Pérez-Garci, A. Schneider, A. Kollwe, W. Bildl, T. Fritzius, A. Gauthier-Kemper, J. Klingauf, M. Gassmann, U. Schulte, B. Bettler, B. Fakler

15:30 **OS04-8** **Molecular architecture of parallel fibre-to-Purkinje cell active zones elucidated by dSTORM**
M. M. Paul (Würzburg), S. Proppert, M. Pauli, A. - L. Sirén, M. Sauer, M. Heckmann

Oral Session 05

13:45–15:45, Hall AM4

Renal Physiology

Chairs: **Carsten Scholz** (Zürich, Switzerland)
Helga Vitzthum (Hamburg)

- 13:45 **OS05-1** **Vascular endothelial growth factor receptor inhibition upregulates renal epithelial sodium channel**
A. Koenen (Greifswald), J. Lampe, R. Rettig, O. Grisk
- 14:00 **OS05-2** **Inflammation triggers FGF23 expression in kidneys of chronic kidney disease mouse models**
D. Egli-Spichtig, P. H. Imenez Silva (Zürich, Switzerland), B. Glaudemans, N. Gehring, C. Bettoni, D. Schönenberger, M. Rajski, D. Hoogewijs, F. Knauf, I. Frey-Wagner, G. Rogler, M. Föller, F. Lang, R. H. Wenger, I. Frew, C. A. Wagner
- 14:15 **OS05-3** **Inhibition of endogenous proteases prevents epithelial sodium channel (ENaC) activation by aldosterone in mCCD_{clt} mouse renal cortical collecting duct cells**
M. Bertog (Erlangen-Nürnberg), M. K. Mansley, C. Korbmacher
- 14:30 **OS05-4** **Natriuretic peptides exert marked renoprotective effects via guanylyl cyclase-A dependent suppression of TRPC6 in podocytes**
J. Staffel (Regensburg), D. Valletta, A. Federlein, M. Kuhn, F. Schweda
- 14:45 **OS05-5** **Distribution, interaction and function of claudins in the thick ascending limb of Henle's loop**
S. Milatz (Kiel), N. Himmerkus, V. C. Wulfmeyer, H. Drexell, K. Mutig, T. Breiderhoff, M. Fromm, J. Hou, M. Bleich, D. Günzel
- 15:00 **OS05-6** **The Atp6ap2/(Pro)-renin receptor is involved in Receptor Mediated Endocytosis by the Renal Proximal Tubule**
M. Figueiredo (Zürich, Switzerland), G. Sihn, D. Müller, G. Nguyen, M. Bader, M. Bader, C. A. Wagner

- 15:15 **OS05-7** **The tubular renin system contributes to high circulating prorenin levels and the development of albuminuria in diabetes mellitus**
A. Federlein (Regensburg), D. Valletta, J. Staffel, F. Schweda

- 15:30 **OS05-8** **Unfolding paradigm: A spring-like multi-layered protein scaffold to maintain the interpodocyte slit of glomerular podocytes**
F. Grahmmer (Freiburg), C. Schell, O. Kretz, L. Völker, D. Kerjaschki, A. Fornoni, J. Miner, T. Benzinger, A. Frangakis, T. B. Huber

Oral Session 06

13:45–15:45, Seminar room S4

Vascular Signaling, Angiogenesis & Platelets

Chairs: **Kristina Kusche-Vihrog** (Münster)
Daniela Wenzel (Bonn)

- 13:45 **OS06-1** **Uridine triphosphate thio analogues as P2Y₁₂ receptor antagonists and inhibitors of platelet aggregation**
M. Aslam (Giessen), C. Hamm, R. Schulz, D. Gündüz
- 14:00 **OS06-2** **von Willebrand factor mediated platelet string formation and leukocyte extravasation in the microcirculation *in vivo***
S. Tahir (Heidelberg), A. H. Wagner, S. Dietzel, U. Pohl, M. Hecker
- 14:15 **OS06-3** **Notch signaling and VEGF determine a balanced VE-cadherin dynamics during angiogenesis via endothelial shape change**
J. Cao (Münster), M. Ehling, R. Adams, H. - J. Schnittler
- 14:30 **OS06-4** **Deletion of the AMPK α 1 subunit in endothelial cells impairs angiogenesis and endothelial migration**
B. Fibthaler (Frankfurt), R. Abdel Malik, H. Stingl, N. Zippel, I. Fleming

14:45 **OS06-5** **Augmentation of phosphate-induced osteo-/chondrogenic transformation of vascular smooth muscle cells and vascular calcification by homoarginine**
J. Voelkl (Tübingen), I. Alesutan, M. Feger, R. Tuffaha, T. Castor, K. Musculus, S. S. Buehling, C. L. Heine, M. Kuro-O, B. Pieske, K. Schmidt, A. Tomaschitz, W. Maerz, S. Pilz, A. Meinitzer, F. Lang

15:00 **OS06-6** **RhoA ambivalently controls prominent myofibroblast characteristics by involving distinct signaling routes**
A. Jatho (Göttingen), S. Hartmann, N. Kittana, F. Mügge, C. Würtz, M. Tiburcy, W. H. Zimmermann, D. Katschinski, S. Lutz

15:15 **OS06-7** **p38MAPK α is protective in the early phase of cardiac remodeling in response to pressure overload**
K. Bottermann (Düsseldorf), L. M. Leitner, M. Pfeffer, J. Nemmer, R. Denen, K. Köhrer, J. Stegbauer, A. Gödecke

15:30 **OS06-8** **Involvement of vascular aldosterone synthase in phosphate-induced osteo-/chondrogenic signaling and calcification of vascular smooth muscle cells**
I. Alesutan (Tübingen), J. Voelkl, M. Feger, T. Castor, S. Mia, M. Sacherer, R. Viereck, O. Borst, C. Leibrock, M. Gawaz, M. Kuro-O, S. Pilz, A. Tomaschitz, B. Pieske, C. A. Wagner, F. Lang

15:45–16:15 **Coffee break**

Teaching Lecture

16:15–17:15, Hall AM1

Chair: Florian Lang (Tübingen)

16:15 **TL-01 Tubuloglomerular Feedback**
Armin Kurtz (Regensburg)

Poster Session 02

17:15–19:15, 1st Floor

see detailed room allocation below

Posters assigned to following topics will be presented:

Poster Topic 13	Pathophysiology of the CNS
Poster Topic 14	Cellular Neuroscience
Poster Topic 15	Hippocampal Function
Poster Topic 16	Ion Channels III: Na⁺, HCN, CNG
Poster Topic 17	Renal Signal Transduction & Transporters
Poster Topic 18	Pathophysiology of Cancer, Diabetes, Acid-Base & Other
Poster Topic 19	Hypoxia & HIFs
Poster Topic 20	Muscle & Exercise Physiology
Poster Topic 21	Permeability, Barrier, Remodeling & Angiogenesis
Poster Topic 22	Cardiac Functions & Repair

Please note:

There will be no guided poster tour but main authors are requested to be present at their posters during the viewing session for discussions. The poster award committees will evaluate the poster presentations and award one poster prize per topic. A list with the winners' names will be displayed after the poster session at the registration desk.

Poster Award Ceremony:

The winners of both Thursday and Friday poster awards will be officially announced on **Saturday, 5 March** directly after the plenary lecture at **09:30h**.

Poster Areas:

Foyer, 1st Floor	Poster Topics 13, 14
Seminar room S3	Poster Topics 15, 16, 17, 18
Seminar room S1	Poster Topics 19, 20, 21, 22

Poster Topic 13

Foyer, 1st floor

Pathophysiology of the CNS

Chairs: Jochen Roeper (Frankfurt)

Peer Wulff (Kiel)

- P13-01** NMDA receptor-dependent depotentiation is enhanced after status epilepticus
X. Guli, T. Kirschstein, R. Köhling
- P13-02** Characterisation of peramp panel action in glioma-associated epilepsy
K. Weßlau, F. Lange, J. Mayer, M. Linnebacher, T. Kirschstein, R. Köhling
- P13-03** Effect of sodium bromide on CA1-pyramidal cells, GABAergic transmission, synaptic plasticity and picrocarpine-induced seizures
H. Kolp, J. Hackert, J. Freise, C. Unger, M. Rohde, M. Weiergräber, T. Kirschstein, R. Köhling
- P13-04** Traumatic brain injury induces changes in synaptic long-term plasticity connected to alterations in protein degradation systems
L. K. Feldmann, F. Le Priault, V. Felzen, S. Thal, C. Behl, K. Engelhard, T. Mittmann
- P13-05** The proinflammatory cytokines TNF α and IL-1 β diminish amplitudes of cortical spreading depression (CSD) via activation of GABA release – is this a common way of neuroprotection?
F. Richter, J. Leuchtweis, A. Eitner, W. Lütz, A. Lehmenkühler, H. - G. Schaible
- P13-06** Validation of a recombinant human stem cell line for the identification of ligand gated chloride channel blockers within the scope of in vitro neuro-physiological, -pharmacological and toxicological screening
K. Kuenzel, S. Abolpour Mofrad, O. Friedrich, D. F. Gilbert
- P13-07** Spontaneous bicuculline-mediated epileptic events in rat hippocampal slices: Neuronal populations and their field potentials
E. - J. Speckmann, F. W. Hufendiek, T. D. van Hove, A. Gorji, M. Cerina, H. - C. Pape

- P13-08** Oxidative stress during *in vitro* maturation of fast spiking basket cells alters hippocampal gamma oscillations – a novel model of schizophrenia

L. A. Hasam-Henderson, G. C. Gotti, C. Klisch, Z. Gerevich, J. R. P. Geiger, R. Kovacs

- P13-09** Changes in synaptic plasticity and gene expression in the brain of a new transgenic mouse model of systemic hyperammonemia

H. L. Haas, A. Chepkova, O. A. Sergeeva, D. Häussinger

- P13-10** Voltage sensitive phosphatases as tools to generate molecular switches with defined substrate specificities

K. Hobiger, C. R. Halaszovich, T. Utesch, M. A. Mroginski, D. Oliver

Poster Topic 14

Foyer, 1st floor

Cellular Neuroscience

Chairs: Stefan Hallermann (Leipzig)

Angelika Lampert (Aachen)

- P14-01** Optogenetic stimulation of cyclic GMP in *Drosophila* motoneurons
A. Grotemeyer, S. Gao, N. Ehmann, D. Sachidanandan, T. Langenhan, G. Nagel, R. J. Kittel
- P14-02** Functional and genetic dissection of mechanosensory organs of *Drosophila*
C. Guan, N. Scholz, M. Nieberler, R. J. Kittel, T. Langenhan
- P14-03** Respiration in freely moving mice: Comparing plethysmography, nasal thermal probe and olfactory bulb local field potentials
J. Jesserger, W. Zhong, J. Brankač, A. Draguhn
- P14-04** The contribution of the two binding sites to the opening of the adult nicotinic acetylcholine receptor
D. Ljaschenko, J. Dudel, M. Heckmann
- P14-05** Structural dynamics of Adhesion class G protein-coupled receptors
S. Altrichter, N. Scholz, C. Hoffmann, T. Langenhan

Poster Topic 15

Seminar room S3

Hippocampal Function

Chairs: Jörg Geiger (Berlin)
Volkmar Lessmann (Magdeburg)

- P15-01** Role of cAMP-signaling in regulation of activity-dependent BDNF secretion in hippocampal neurons
J. - H. Heyne, P. Lichtenecker, V. Lessmann, **T. Brigadski**
- P15-02** Behavioural state drives structural plasticity of parvalbumin-positive interneurons in the dentate gyrus
D. Kaufhold, M. Strüber, M. Bartos
- P15-03** Activation of the prefrontal-thalamic-hippocampal network in a touch screen based working memory task
A. de Mooij-van Malsen, T. Schifferholz, P. Wulff
- P15-04** Investigations on the function of transcranial oscillatory stimulation
S. Binder, X. Gao, F. Bender, S. Wiegert, R. Bruder, A. Ponomarenko, **L. Marshall**
- P15-05** Consequences of altered dendritic arborization in hippocampal networks – linking molecular signaling, neuronal morphology and cognitive performance
J. Maurer, D. Mauceri, A. Yanez, A. Draguhn, H. Bading, M. Both
- P15-06** Lactate is a sufficient energy substrate for sharp-wave ripple complexes *in vitro*, but does not sustain gamma oscillations
J. - O. Hollnagel, T. Cesetti, J. Schneider, A. Lewen, O. Kann
- P15-07** Differential effects of oxytocin on oscillations in acute mouse hippocampal slices
P. Maier, M. Kaiser, V. Grinevich, A. Draguhn, M. Both
- P15-08** CA1 laminar distribution of theta-gamma cross-frequency coupling patterns in mice
V. Nguyen Chi, Y. Yanovsky, A. Draguhn, A. B. L. Tort, J. Brankač
- P15-09** Non-random synaptic topology in local microcircuits of excitatory and inhibitory neurons in the presubiculum
Y. Peng, J. Song, C. Klisch, I. Vida, J. R. P. Geiger

P14-06 Electrophysiological characterization of bile salt effects on ionotropic glutamate receptor function
A. Orth, K. Terörde, N. Klöcker

P14-07 Differential regulation of TRPM3 splice variants by intracellular signaling pathways
M. Behrendt, S. Dembla, F. Mohr, F. Schneider, C. Nassenstein, J. Oberwinkler

P14-08 Adenosine receptor A₁ modulates the potassium conductance of olfactory bulb mitral cells
S. Winandy, N. Breikreutz, N. Rotermund, C. Lohr, D. Hirnet

P14-09 A₁ receptor-mediated modulation of recurrent inhibition in mouse olfactory bulb mitral cells
K. Schulz, N. Rotermund, C. Lohr, D. Hirnet

P14-10 Electrical coupling in A17 cells modulates calcium signaling and GABAergic inhibition in the rod circuitry
C. Elgueta, O. Schmachtenberg, F. Leroy, A. Palacios

P14-11 Tonic inhibition in the basal amygdala is under control of modulatory transmitter systems
S. Meis, T. Endres, T. Munsch, V. Lessmann

P14-12 Properties of subthreshold membrane potential oscillations of somatostatin-expressing GABAergic interneurons of the mouse cingulate cortex *in vitro*
B. Sutor, T. Riedemann

P14-13 Modulation of fear-relevant circuits of the amygdala by opioids
L. Goedecke, P. Blaesse, H. - C. Pape, K. Jüngling

P14-14 A structural correlate for presynaptic homeostasis
A. Mrestani, M. M. Paul, N. Scholz, T. Langenhan, M. Heckmann

- P15-10** **Fast effects of neurosteroids on memory-related hippocampal network oscillations**
P. Geschwill, M. Kaiser, A. Draguhn, M. Both
-
- P15-11** **How spike pattern can determine signaling and expression of STDP**
E. Edelmann, E. Cepeda-Prado, V. Lessmann
-
- P15-12** **Plasticity of individual hippocampal mossy fiber synapses involves intracellular calcium stores**
A. Drakew, U. Maier, M. Frotscher
-
- P15-13** **Intrinsic and dopaminergic modulation of hippocampal mossy fiber bouton resting membrane potential**
V. Wuntke, H. Alle, J. R. P. Geiger

Poster Topic 16

Seminar room S3

Ion Channels III: Na⁺, HCN, CNG

Chairs: **Marlene Bartos** (Freiburg)
Claudia Grossmann (Halle)

- P16-01** **The ϵ -subunit of the epithelial sodium channel (*Xenopus laevis*) alters channel open probability**
K. Vowinkel, A. PerniB, M. Althaus
-
- P16-02** **Comparative characterization of the ϵ - and α -subunit of the epithelial sodium channel in *Xenopus laevis***
L. Wichmann, A. PerniB, M. Althaus
-
- P16-03** **Characterization of acid sensing ion channels in glioblastoma cells**
Y. Tian, P. Bresenitz, A. Reska, L. Moussaoui, C. Beier, S. Gründer
-
- P16-04** **Volatile anaesthetics modulate Acid-sensing Ion channels (ASICs)**
L. Grothuesmann, R. Blaumeiser-Debarry, M. Möller, M. Coburn, D. Wiemuth, S. Gründer
-
- P16-05** **Towards elucidating the contribution of each cAMP-binding site to HCN channel gating**
M. R. Sunkara, J. Kusch, K. Benndorf

- P16-06** **The effect of newly designed cAMP analogues on HCN2 Channels**
M. Otte, A. Schweinitz, S. Thon, R. Schmauder, U. Enke, K. Benndorf
-
- P16-07** **Functional impact of subunit types and subunit positions in heterotetrameric olfactory CNG channels**
J. Schirmeyer, G. Ehrlich, T. Schwabe, K. Benndorf
-
- P16-08** **Activation of CNG channels by novel cAMP and cGMP derivatives**
A. Schweinitz, U. Enke, J. Schirmeyer, K. Benndorf
-
- P16-09** **A fast microfluidic based 30-barrel application system to functionally characterize ligand-gated ion channels**
R. Schmauder, T. Schwabe, J. Kusche, V. Nache, E. Herbst, G. Mayer, K. Benndorf
-
- P16-10** **Differential regulation of Na⁺ current density in bipolar and pyramid-shaped neurons by exposure to inflammatory cytokines derived from activated microglia**
L. Klappal, B. A. Igelhorst, I. D. Dietzel
-
- P16-11** **Sodium channel subunit $\beta 4$ influences the binding of ProTx-II to Nav1.7 and Nav1.2**
M. Hampf, S. Havlicek, B. Winner, A. Lampert
-
- P16-12** **Use-dependent inhibition of the cardiac sodium channel Na_v1.5 by the opioid oxycodone**
J. Meents, V. Peuckmann-Post, A. Lampert
-
- P16-13** **Pyrethroid insecticide induces resurgent-like currents in human sodium channel Nav1.5**
S. Thull, **C. Naecsu**, A. O'Reilly, T. Huth, J. Meents, A. Lampert

Poster Topic 17

Seminar room S3

Renal Signal Transduction & Transporters

Chairs: Christoph Korbmacher (Erlangen)
Frank Schweda (Regensburg)

- P17-01** The endothelin-A receptor is expressed by renin cells of the kidney but is of less relevance for the physiological control of renin synthesis and secretion in vivo
T. Neder, B. Neubauer, C. Wagner
- P17-02** Analysis of vasopressin V1a and V2 receptors distribution in the mammalian kidney
T. Giesecke, T. Koshimizu, K. Kawahara, S. Bachmann, K. Mutig
- P17-03** The effect of leptin and resveratrol on Jak/Stat pathways and Sirt-1 gene expression in the renal tissue of ischemia/reperfusion induced rats
S. M. Erkasap, N. Erkasap, B. Bradford, L. K. Mamedova, O. Uysal, M. Ozkurt, R. Ozyurt, Ö. Kutlay, B. Bayram
- P17-04** Phenotyping of Fam20a-knock out-mice
L. Heinekamp, N. Himmerkus, R. Lucius, S. Boretius, R. Kleta, M. Bleich
- P17-05** Opposing effects of lithium on the activity of the transcriptional regulator NFAT5 in collecting duct cells
C. Küper, F. - X. Beck, W. Neuhofer
- P17-06** Hydrochlorothiazide does not acutely acidify urine
P. de Bruijn, R. Brekelmans, H. Praetorius, J. Leipziger
- P17-07** The H⁺/sucrose symporter SLC45A3, a candidate for an osmolyte transporter in the kidney
O. Vitavska, B. Edemir, H. Wieczorek
- P17-08** Poster will not be presented.
- P17-09** Dietary adaptation to high and low phosphate in the absence of the intestinal sodium phosphate symporter NaPi-IIb
T. Knöpfel, E. M. Pastor Arroyo, C. A. Wagner, N. Hernando
- P17-10** Hepatic and renal handling of dantrolene and 5-hydroxy dantrolene (5-OH dantrolene) by organic anion transporting polypeptides (OATPs) and organic anion transporters (OATs)
B. C. Burckhardt, M. Henjakovic, Y. Hagos, G. Burckhardt

- P17-11** Electrophysiological properties and effects of excess dietary calcium intake along the cortico-medullary axis of the thick ascending limb of the loop of Henle
N. Himmerkus, A. Plain, V. C. Wulfmeyer, A. Kietz, J. Hou, M. Bleich, S. Milatz
- P17-12** Sites and principles of ammonia excretion in marine mussels
J. Thomsen, N. Himmerkus, M. Bleich, M. Tresguerres
- P17-13** Altered activity of the epithelial sodium channel (ENaC) in the aldosterone-sensitive distal nephron (ASN) of mice with AT1a receptor deficiency
V. Nesterov, M. Bertog, C. Korbmacher
- P17-14** Function of an alternative transcript of the WNT1-inducible signaling pathway protein 1 gene in human renal cells
M. Polovic, G. Schwerdt, M. Gekle
- P17-15** Depletion of ATP6AP2 in AS4.1 cells regulates the expression of ciliogenesis and cell-cycle genes thereby arresting cell cycle in G0/1 phase
H. Wanka, P. Lutz, D. Staar, B. Peters, A. Morch, L. Vogel, R. K. Chilokuti, G. Homuth, J. Sczodrok, J. Peters

Poster Topic 18

Seminar room S3

Pathophysiology of Cancer, Diabetes, Acid-Base & Other

Chairs: **Gerolf Gros** (Hannover)
Oliver Thews (Halle)

- P18-01** **The Na⁺/H⁺ exchanger 1 modulates pH-dependent cell-cell contacts in human melanoma**
V. Hofschroer, F. T. Ludwig, K. A. Koch, P. Friedl, J. Odenthal, C. Veelken, C. Stock, A. Schwab
-
- P18-02** **Does NHE1-mediated invasion of human melanoma cells depend on their cortical stiffness?**
D. Keurhorst, F. Frontzek, I. Liashkovich, V. Hofschroer, R. Dreier, C. Stock
-
- P18-03** **Angiotensin II and Losartan change NHE1-dependent behavior of melanoma cells**
N. Olschewski, V. Hofschroer, N. Nielsen, A. Schwab, C. Stock
-
- P18-04** **Influence of hormone-like fibroblast growth factors on viability of pancreatic beta cells and insulin release**
B. Pajaziti, M. Düfer
-
- P18-05** **Beyond blood pressure: Cardiac atrial natriuretic peptide regulates pancreatic β -cell proliferation in experimental diabetes**
S. Tauscher, H. Nakagawa, K. Völker, M. Kuhn
-
- P18-06** **Flavonoid supplements deplete systemic glucose uptake in humans**
J. C. Martens, A. Pelster, G. Gohla, A. Kistenmacher, E. K. Wardzinski, U. H. Melchert, H. Vollert, K. M. Oltmanns
-
- P18-07** **Association of circulating irisin with oxidative stress and insulin resistance in premenopausal lean and obese women**
M. Belviranli, N. Okudan, F. Celik
-
- P18-08** **Influence of extracellular acidosis on matrix proteins**
M. - C. Schulz, M. Gele

- P18-09** **Role of the electrogenic sodium bicarbonate cotransporter NBCe1 and carbonic anhydrase II for proton dynamics in cortical astrocytes**
S. M. Theparambil, S. Defren, T. Weber, Z. Naoshin, J. W. Deitmer
-
- P18-10** **Cytosolic sodium dynamics in mouse cortical astrocytes**
Z. Naoshin, J. W. Deitmer
-
- P18-11** **Localization and regulation of intestinal acid-base transporters during metabolic acidosis**
M. Khorrani, A. Daryadel, C. A. Wagner
-
- P18-12** **Novel zinc phthalocyanine as a promising photosensitizer for photodynamic therapy of esophageal cancer**
W. Kuzyniak, J. Berkholz, B. Hoffmann, B. Nitzsche, G. Steinemann, J. Schmidt, K. Tafreshian, V. Ahsen, E. Ermilov, M. Höpfner
-
- P18-13** **Isolation of highly malignant lung cancer cells by platelet affinity selection**
H. Schillers, E. Bulk
-
- P18-14** **Sperm nuclear DNA fragmentation and fertility status**
E. Evgeni, G. Lymberopoulos, B. Asimakopoulos

Poster Topic 19

Seminar room S1

Hypoxia & HIFs

Chairs: **Eric Metzen** (Duisburg-Essen)
Roland H. Wenger (Zürich, Switzerland)

- P19-01** **Expression of the Wilms tumor protein WT1 in neuroblastoma cells is stimulated in hypoxia**
L. Catanese, K. M. Kirschner, H. Scholz, K. Krüger
-
- P19-02** **Impact of hypoxia-induced carbonic anhydrase IX on H⁺-coupled lactate transport in MDA-MB-231 human breast cancer cells**
S. Ames, L. F. Barros, J. W. Deitmer, H. M. Becker

- P19-03** **The significance of hypoxia inducible factor (HIF) – 1 α on the course of an acute infection with murine cytomegalovirus**
F. Beuing, C. Lodewick, J. Fandrey, S. Winning
-
- P19-04** **Effects of hypoxia on the transport of glucose across the equine jejunum epithelium**
F. Dengler, C. Weiße, G. Gäbel
-
- P19-05** **The Influence of hypoxia inducible factor 2 on the development of neural stem cells**
K. Kleszka, A. Neugebauer, J. Fandrey, T. Schreiber
-
- P19-06** **The relevance of expression of myoglobin in breast cancer for adaptation on hypoxia**
A. K. Heymann, J. Fandrey, T. Schreiber
-
- P19-07** **Destruction of a distal hypoxia response element abolishes *trans*-activation of the *PAG1* gene mediated by HIF-independent chromatin looping**
D. Hoogewijs
-
- P19-08** **ArhGAP29 fine tunes RhoA activity and its downstream signaling in hypoxia**
J. Peters, C. Hüttner, L. Helbig, M. Vogler, S. Krull, D. Katschinski, A. Zieseniss
-
- P19-09** **FIH regulates cellular metabolism through hydroxylation of the deubiquitinase OTUB1**
C. C. Scholz, J. Rodriguez, C. Pickel, S. Burr, J. - A. Fabrizio, K. A. Nolan, P. Spielmann, M. A. S. Cavadas, B. Crifo, D. N. Halligan, J. A. Nathan, D. J. Peet, R. H. Wenger, A. von Kriegsheim, E. P. Cummins, C. T. Taylor
-
- P19-10** **Impact of cellular availability of the transcription factor ARNT and import proteins Importin- α on radiation sensitivity in different cell lines**
M. - K. Lieberum, M. Mandl, M. Nagel, J. Dunst, R. Depping
-
- P19-11** **Phosphorylation of importin α 1 as an effector of the binding of importin α 1 to cargo proteins with nuclear localisation signals and importin β**
C. Geißler, F. Rother, R. Depping, A. Schütz, E. Hartmann, M. Bader
-
- P19-12** **Effects of an altered subcellular localisation of the transcription factor ARNT on HIF signalling**
M. Mandl, M. - K. Lieberum, M. von Fallois, R. Depping

- P19-13** **CO₂ permeability of rat ventricular cardiomyocytes**
M. Arias-Hidalgo, C. Geers-Knörr, S. Al-Samir, G. Gros, V. Endeward
-
- P19-14** **Maximal oxygen consumption of mice deficient in CO₂ channels**
S. Al-Samir, G. Gros, S. Steinlechner, V. Endeward
-
- P19-15** **Sphingolipid signals regulate hypoxia-inducible factors in macrophages and fibroblasts**
U. Glaser, V. Reichmann, T. Otto, J. Fandrey

Poster Topic 20

Seminar room S1

Muscle & Exercise Physiology

Chairs: **Theresia Kraft** (Hannover)
Susanne Rohrbach (Giessen)

- P20-01** **Electromyographical study of trunk muscles in upright and bent postures**
M. Rogalski, J. P. Kuhtz-Buschbeck, N. Margraf, G. Deuschl
-
- P20-02** **Functional capacity of trunk extensors is almost identical between sexes**
E. Kurz, L. Bork, C. Anders
-
- P20-03** **Glucose uptake during intermittent high-intense exercise of a small muscle group**
H. Fahlbusch, N. Maassen, J. Raatz, M. Maassen
-
- P20-04** **Effects of exercise training on hepatic oxidative stress and antioxidant status in aged rats**
N. Okudan, M. Belviranli
-
- P20-05** **A practical class to teach the physiology of mechanical ventilation using a lung simulator**
V. Shahn, M. Güldner, W. Heinrichs, **A. Schwab**
-
- P20-06** **Cardiopulmonary reaction to hypoxia in rats and the influence of adrenergic blockade**
P. Gabriel, C. Bölter, P. Appelt, N. Fiedler, K. Schierle, B. Raßler

P20-07 Does preselection of medical students with respect to skills in natural sciences outperform overall performance presented at the university entrance qualification?

S. Wehlke, D. Nafz, P. Nafz, D. Stiller, R. Havemann, B. Danz, **B. Nafz**

P20-08 Interorgan communication between heart and skeletal muscle

L. M. Leitner, K. Bottermann, M. Pfeffer, J. Nemmer, R. Deenen, K. Köhrer, J. Stegbauer, A. Gödecke

P20-09 Distribution of myosin heavy chain isoforms in the skeletal muscle of humans. Implications for sports and medicine

C. Guldner, **H. Pagel**

P20-10 Profound changes in the gene expression of skeletal muscle lacking the type 1 ryanodine receptor (RYR1)

D. Filipova, A. M. Walter, J. A. Gasper, A. Brunn, M. Deckert, A. Sachinidis, G. Pfitzer, S. Papadopoulos

P20-11 Fibroblasts from diaphragms of dystrophin-deficient *mdx* mice show higher expression of endothelin-1 receptor type B than those from wildtype mice

P. Grahl, H. Kenk, H. Brinkmeier, M. Landsberger

P20-12 The actin cytoskeleton in embryonic fibroblasts from caldesmon deficient mice

Q. Trunschke, S. Papadopoulos, M. Frohn, S. L. Barthel, S. Naumann, D. Metzler, G. Pfitzer, **M. M. Schroeter**

P20-13 The influence of mitochondrial DNA on sarcomere shortening of isolated cardiomyocytes

A. Thielmann, P. Knüfermann, G. Baumgarten, S. Frede, R. Meyer

P20-14 Exercise-induced cell free DNA in human plasma is predominantly released from cells of the haematopoietic lineage

S. Helmig, K. Bender, S. Tug, E. Deichmann, A. Schmeier-Jürchott, E. Wagner, T. Zimmermann, M. Radsak, M. Giacca, P. Simon

P20-15 Pressure activates endothelial myosin

V. Prystopiuk, H. Oberleithner, J. Fels

Poster Topic 21

Seminar room S1

Permeability, Barrier, Remodeling & Angiogenesis

Chairs: **Michaela Kuhn** (Würzburg)
Henning Morawietz (Dresden)

P21-01 The histone demethylase PHF8 maintains angiogenesis by regulating mRNA splicing

C. Fork, L. Gu, J. Hitzel, J. Preussner, M. Looso, M. S. Leisegang, R. P. Brandes

P21-02 The role of AMP-activated protein kinase in angiogenesis

H. Stingl, R. Abdel Malik, B. Fißthaler, I. Fleming

P21-03 Atrial natriuretic peptide attenuates hypoxia-induced release of VEGF from astrocytes and thereby pathological retinal neovascularization

K. Spiranec, S. Hupp, B. Gaßner, A. Sindic, M. Kuhn

P21-04 The polarity protein Scrib controls endothelial adhesion and lateral junctions formation

C. Kruse, K. Pálfi, U. R. Michaelis, C. Fork, R. P. Brandes

P21-05 Supramolecular-structure of VE-cadherin-based endothelial adherens junctions

N. Lindemann, H. - J. Schnittler

P21-06 Sodium determines EnNaC expression and endothelial nanomechanics in aldosterone synthase (Cyp11b2) knockout mice

M. Maase, V. Hofschroer, P. Jeggler, M. Bertog, C. Großmann, K. Kusche-Vihrog

P21-07 Low dose, long-term clarithromycin therapy ameliorates inflammatory mediators-induced loss of endothelial barrier function

M. Aslam, D. Gündüz

P21-08 The omega-3 diol 19,20-dihydroxydocosapentaenoic acid regulates vascular permeability in diabetic retinopathy

S. Dziubla, J. Hu, R. Popp, J. Lin, K. Devraj, H. - P. Hammes, I. Fleming

P21-09 Endothelium activates latent MMP2 and MT1MMP in human aortic smooth muscle cells

D. Egorov, I. Kopaliani, A. Deussen

P21-10 Influence of biophysical properties of filter supports on transendothelial resistance determined by impedance spectroscopy of endothelial monolayers

F. Zimmermann, F. Härtel, T. Noll, P. Dieterich

P21-11 Carbon dioxide as a protective compound for the ruminal epithelium

R. Rackwitz, G. Gäbel

P21-12 Assay development for electrophysiological studies in the hermatypic coral *Stylophora pistillata*

I. Taubner, E. Tambutté, S. Tambutté, A. Eisenhauer, F. Böhm, M. Bleich

P21-13 Role of soluble adenylyl cyclase on barrier function of human umbilical vein endothelial monolayers

A. Das, F. Härtel, K. Ihle, Y. Ladilov, T. Noll

P22-04 Optogenetic stimulation permits long-term assessment of contractility in organotypic tissue cultures of murine myocardium

C. Fischer, T. Bruegmann, E. Fein, B. Husse, T. Fey, P. Sasse, U. Pohl, A. Dendorfer

P22-05 Automated Cardiac Action Potential Analysis (CAPA)

R. Thieleczek, M. - L. Chang Liao, H. - W. Zimmermann, E. Wettwer

P22-06 Spot on Cardiac Arrhythmia: Spatiotemporal pattern generation in optogenetic cardiac systems

C. Richter, J. Christoph, S. Luther

P22-07 The disease-associated HCN4 channel variant V759I is not sufficient to explain dysfunction of the sinoatrial node

N. Erlenhardt, O. Kletke, F. Wohlfarth, L. Clasen, H. Makimoto, M. Kelm, C. Jungen, C. Meyer, N. Klöcker

P22-08 Impairment of ventricular repolarization and induction of arrhythmias by mechanical unloading in a rodent model of heterotopic heart transplantation

A. Schwoerer, M. Paske, D. Biermann, M. Jelinek, H. Reichensperner, H. Ehmke

P22-09 Heart and smooth muscle experiments in virtual laboratories: SimHeart and SimVessel

H. A. Braun, A. Tchaptchet, J. Dell' Oro-Friedl, D. Mohnke, T. Braun, F. Stumpff, R. Patejdl, T. Noack

P22-10 Titin properties in the ageing heart

S. Kötter, S. Sahin, T. Rassaf, I. Efimov, M. Krüger

P22-11 The skeletal muscle contraction mode regulates cardiac muscle phenotype and functional parameters in rats

V. Müller, T. Hannes, F. Suhr

P22-12 TGF β induces attenuation of cell shortening via activation of ALK5 and PI3K in adult cardiomyocytes of rat

J. Bornbaum, R. Schulz, G. Euler, J. Heger

Social Dinner in the "Schiffergesellschaft"

20:00

(see page 13 for more information)

Poster Topic 22

Seminar room S1

Cardiac Functions & Repair

Chairs: **Andreas Deussen** (Dresden)

Axel Gödecke (Düsseldorf)

P22-01 Human embryonic stem-cell derived cardiomyocytes: Maturation on stiff matrix induces pure β -myosin protein expression and adult-like functional properties at the single-cell level

M. Wendland, N. Weber, S. Greten, K. Schwanke, B. Iorga, M. Fischer, C. Geers-Knörr, C. Wrede, J. Hegermann, U. Martin, B. Brenner, R. Zweigerdt, T. Kraft

P22-02 Properties of α MHC-promoter selected and Nkx2.5 programmed ES cell derived cardiomyocytes

F. Hausburg, P. Müller, C. Völkner, R. Patejdl, G. Steinhoff, R. David, T. Noack

P22-03 Reduced excitability and intercellular coupling lead to slow conduction in cultures of stem cell-derived cardiomyocytes

M. Azzarito, Y. Prudat, I. C. Marcu, J. P. Kucera, **N. D. Ullrich**

Saturday, March 5, 2016

Plenary Lecture 04

08:30–09:30, Hall AM1

Chair: Volkmar Leßmann (Magdeburg)

08:30 PL-04 **How to inhibit seizures**
Rüdiger Köhling (Rostock)

Poster Award Ceremony

09:30–09:40, Hall AM1

The winners of both Thursday and Friday poster awards will be officially announced. Don't miss it!

09:40–10:00 Coffee break

Symposium 09

10:00–12:00, Hall AM1

SNARE-Mediated Secretion: A Versatile Mechanism for Cargo Release

Chairs: Ute Becherer (Homburg)
Ralf Mohrmann (Homburg)

10:00 Welcome / Opening Remarks

10:02 S09-1 **Molecular mechanism of neuropeptide transport and release in hippocampal neurons**
Ruud Toonen (Amsterdam, Netherlands)

10:25 S09-2 **The role of brain-derived neurotrophic factor secretion in spike timing-dependent synaptic plasticity**
Volkmar Leßmann (Magdeburg)

10:48 S09-3 **Molecular mechanisms of surfactant release in the post-fusion phase of exocytosis**
Pika Miklavc (Ulm)

11:11 S09-4 **The acrosome reaction in sperm: A special type of regulated exocytosis mediated by the SNARE fusion machinery**
Ingrid Boekhoff (München)

11:34 S09-5 **Insulin granule biogenesis and turnover**
Michele Solimena (Dresden)

Oral Session 07

10:00–12:00, Hall AM2

Cardiomyopathies & Cardiac Regeneration

Chairs: Philipp Sasse (Bonn)

Klaus-Dieter Schlüter (Giessen)

10:00 OS07-1 Mosaic mitochondrial respiratory chain deficiency causes cardiac arrhythmia during ageing

R. J. Wiesner (Köln), O. Baris, J. Neuhaus, S. Ederer, J. - C. von Kleist-Retzow, G. Zsurka, V. Peeva, W. S. Kunz, T. Hickethier, A. Bunck, J. W. Schrickel, F. Stöckigt

10:15 OS07-2 Functional imbalance among individual cardiomyocytes caused by cell-to-cell variation in mutant mRNA expression. Random burst-like transcription as a possible trigger for Hypertrophic Cardiomyopathy

T. Kraft (Hannover), J. Montag, M. Makul, P. Ernstberger, S. Tripathi, S. Dunda, A. Perrot, A. Francino, F. Navarro-Lopéz, **B. Brenner**

10:30 OS07-3 The troponin I mutation Δ K184 blunts the effects of PKA-mediated phosphorylation on contraction and relaxation kinetics but not on Ca^{2+} -sensitivity

D. Möhner (Köln), F. Elhamine, R. Stehle, G. Pfitzer

10:45 OS07-4 Contractile function of myofibrils within human embryonic stem cell-derived cardiomyocytes with known cardiac myosin isoform composition using a novel micromechanical approach

B. Iorga (Hannover), M. Wendland, K. Schwanke, S. Greten, N. Weber, U. Martin, R. Zweigerdt, B. Brenner, T. Kraft

11:00 OS07-5 Modulation of Ca^{2+} -regulatory function by three novel mutations in TNNI3 associated with severe infant restrictive cardiomyopathy

D. Cimiotti (Bochum), A. Kostareva, N. Smolina, M. Majchrzak, D. Möhner, A. Wies, H. Milting, R. Stehle, G. Pfitzer, A. Mügge, K. Jaquet

11:15 OS07-6 Long-term inhibition of AP-1 by JDP2 overexpression provokes cardiac dysfunction

G. Euler (Giessen), J. Heger, A. Würfel, C. Hill, R. Gáspár, J. Pálóczi, B. Meyering, Z. Varga, M. Sárközy, P. Bencsik, T. Csont, A. Aronheim, P. Ferdinandy, R. Schulz

11:30 OS07-7 Epicardium-derived cells as source of pro-inflammatory and pro-fibrotic cytokines after myocardial infarction

J. Hesse (Düsseldorf), S. Leberling, D. Friebe, T. Schmidt, B. Steckel, Z. Ding, J. Schrader

11:45 OS07-8 Generation of highly pure physiologically and pharmacologically functional Sinus-Nodal-Bodies from Pluripotent Stem Cells

J. J. Jung (Rostock), C. Rimbach, B. Husse, J. Stieber, P. Vasudevan, A. Dendorfer, R. David

Oral Session 08

10:00–12:00, Hall AM3

Hypoxia II

Chairs: Reinhard Depping (Lübeck)

Sandra Winning (Essen)

10:00 OS08-1 Characterization of renal erythropoietin producing cells *in vivo*

K. A. Nolan (Zürich, Switzerland), F. Imeri, S. Pfundstein, S. Santambrogio, I. Abreu-Rodríguez, P. Spielmann, E. Hummler, C. C. Scholz, D. Hoogewijs, R. H. Wenger

10:15 OS08-2 Organ specificity of *in vivo* erythropoietin expression by PDGF-receptor β bearing cells

K. Gerl (Regensburg), B. Kurt, R. Adams, A. Kurtz

10:30 OS08-3 Anti-oxidative role of cytoglobin in podocytes: potential association with chronic kidney disease?

E. Randi (Zürich, Switzerland), M. Tsachaki, M. Lindenmeyer, C. Cohen, O. Devuyt, A. Odermatt, R. H. Wenger, D. Hoogewijs

10:45 OS08-4 Role of the hypoxia-inducible factor pathway in cardiovascular system development in zebrafish

C. Gerri (Bad Nauheim), R. Marín-Juez, A. Rossi, D. Y. R. Stainier

11:00 **OS08-5** **Hydrogen peroxide derived from the NADPH oxidase Nox4 is required for endothelial cells differentiation**
F. Moll, S. Harenkamp, R. P. Brandes, K. Schröder (Frankfurt)

11:15 **OS08-6** **Dexamethasone promotes pulmonary vascular remodeling by activation of the NOX-HIF-1alpha axis**
D. Kracun (Munich), A. Petry, I. Kanchev, K. Chalupsky, A. Görlach

11:30 **OS08-7** **The pharmacological Gq inhibitor FR900359 induces airway relaxation without systemic side effects**
M. Matthey (Bonn), R. Schröder, R. Roberts, M. Kuschak, I. Hall, H. Meurs, C. Müller, G. König, E. Kostenis, B. K. Fleischmann, **D. Wenzel**

11:45 **OS08-8** **Contribution of the gasotransmitter hydrogen sulfide to hypoxic inhibition of pulmonary transepithelial sodium absorption**
N. Krause, H. Kutsche, F. Santangelo, J. Pott, L. Münch, K. Olson, M. Althaus (Giessen)

Oral Session 09

10:00–12:00, Hall AM4

Cellular and Molecular Neuroscience II

Chairs: **Timo Kirschstein** (Rostock)
Wolfgang Greffrath (Mannheim)

10:00 **OS09-1** **A skilled forelimb motor task to investigate how noradrenaline shapes cortical motor control**
J. Schiemann (Edinburgh, United Kingdom), J. Dacre, J. Ammer, I. Duguid

10:15 **OS09-2** **Delta oscillations organize prefrontal network activity during wakefulness**
J. - F. Sauer (Freiburg), J. M. Biskamp, M. Bartos

10:30 **OS09-3** **Adenosine-mediated modulation of olfactory bulb network activity and odour information processing**
N. Rotermund, T. Fregin, M. Buchta, D. Hirnet, C. Lohr (Hamburg)

10:45 **OS09-4** **Spinal Tumor Necrosis Factor- α generates spinal hyperexcitability by recruiting spinal Interleukin-6 trans-signaling**
C. König (Jena), E. Morch, A. Eitner, C. Möller, B. Turnquist, H. - G. Schaible, A. Ebersberger

11:00 **OS09-5** **TRPA1-mediated pain in human subjects**
M. Schwarz (Erlangen-Nürnberg), M. Fischer

11:15 **OS09-6** **Achaete-scute homolog 1 determines the differentiation fate of neuroblastoma cells**
M. Kasim (Berlin), V. Heß, H. Scholz, P. Persson, M. Fäßling

11:30 **OS09-7** **Food intake and energy turnover – time of day makes a difference**
G. Gohla (Lübeck), N. Herzog, S. Janka, T. Baumann, J. C. Martens, A. Kistenmacher, E. K. Wardzinski, K. M. Oltmanns

11:45 **OS09-8** **Light-induced pain in porphyrias and photodynamic therapy involves TRPA1 and TRPV1**
A. Babes (Bucharest, Romania), C. Neacsu, L. Moparhi, T. Kichko, S. Sauer, B. Namer, M. Filipovic, P. Zygmunt, P. Reeh, M. Fischer

Oral Session 10

10:00–12:00, Seminar room S4

Ion Channels II: ENaC/ Acid- & Other

Chairs: **Silke Härteis** (Erlangen)
Fritz Markwardt (Halle)

10:00 **OS10-1** **Functional ENaC inhibition induces endocytosis of the channel**
L. Niedzielski (Münster), F. Fischer, M. Maase, K. Kusche-Vihrog

10:15 **OS10-2** **Cono-RFamide from *Conus textile* targets Acid-Sensing Ion Channel 3 (ASIC3)**
C. Reimers (Aachen), H. Kalbacher, Y. Tian, S. Stevanović, S. Kaufenstein, D. Mebs, S. Gründer

10:30 **OS10-3** **The degenerin region of the human bile acid sensitive ion channel is involved in channel inhibition by calcium and activation by bile acids**

A. Ilyaskin (Erlangen-Nürnberg), A. Diakov, H. Sticht, C. Korbmacher, **S. Haerteis**

10:45 **OS10-4** **The interplay between ion channels of the Degenerin/Epithelial Sodium Channel family and the lipid bilayer**

A. Schmidt (Aachen), R. Alsop, M. Rheinstadter, S. Gründer, D. Wiemuth

11:00 **OS10-5** **The phosphorylation site T613 in the β -subunit of rat epithelial Na⁺ channel (ENaC) modulates channel inhibition by Nedd4-2**

B. Krueger, C. Korbmacher, R. Rauh (Erlangen-Nürnberg)

11:15 **OS10-6** **Connexin 30 inhibits human epithelial sodium channel (ENaC) expressed in *Xenopus laevis* oocytes by reducing channel surface expression**

A. Ilyaskin, C. Korbmacher, **A. Diakov** (Erlangen-Nürnberg)

11:30 **OS10-7** **The rapid membrane insertion of the endothelial sodium channel is induced by shear stress and stiffens the cell cortex**

Z. C. Cosgun (Münster), M. Wilhelmi, K. Kusche-Vihrog

11:45 **OS10-8** **Regulatory role of the intracellular domain of the bile acid-sensitive ion channel (BASIC)**

D. Wiemuth (Aachen), P. Lenzig, S. Gründer

12:00–13:00 **Lunch break**

Symposium 10

13:00–15:00, Hall AM1

Physiology and Pathophysiology of the Third Gasotransmitter H₂S

Chairs: Ingrid Fleming (Frankfurt)
Istvan Szijarto (Berlin)

13:00 **S10-1** **Chemical biology of H₂S signaling**
Milos R. Filipovic (Bordeaux, France)

13:20 **S10-2** **Hypoxic preconditioning-like effects caused by the combined application of H₂S and nitrite protect the cells from the hypoxia/reoxygenation-induced cell death**
Jan Lj. Miljkovic (Erlangen-Nürnberg)

13:40 **S10-3** **Role of H₂S in the cardiovascular system**
Istvan Szijarto (Berlin)

14:00 **S10-4** **Role of Cystathione γ -Lyase in acute ischemic kidney injury**
Lajos Marko (Berlin)

14:20 **S10-5** **H₂S and Renal (Dys)Function. PDGF: the paradigm growth factor that orchestrates the crosstalk of gasotransmitters in the kidney**
Josef Pfeilschifter (Frankfurt)

14:40 **S10-6** **H₂S and homocysteine; new insights from two hyperhomocysteinemic mutant mouse strains that lack H₂S-generating enzymes**
Isao Ishii (Tokyo, Japan)

Symposium 11

13:00–15:00, Hall AM2

Human Stem Cell Derived Neurons for Translational Research

Chairs: **Michael Fischer** (Erlangen)
Wolfgang Greffrath (Mannheim)

- 13:00 **S11-1** **Sodium Channels of stem cell derived human nociceptors – potentials and pitfalls**
 Angelika Lampert (Aachen)
- 13:30 **S11-2** **PIEZ2 is required for mechanotransduction in human ES-cell-derived touch receptors**
 Katrin-Schrenk-Siemens (Heidelberg)
- 14:00 **S11-3** **Modelling neuropsychiatric diseases using human induced stem cell-derived neurons**
 Jan Rosner (Mannheim)
- 14:30 **S11-4** **How human motor neurons get sick: Disease modeling of motor neuron degeneration using hiPSCs**
 Andreas Hermann (Dresden)

Oral Session 11

13:00–15:00, Hall AM3

Hippocampal Network Activity

Chairs: **Martin Both** (Heidelberg)
Tanja Brigadski (Magdeburg)

- 13:00 **OS11-1** **Altered time-frequency characteristics and aberrant cerebral excitability in the APP^{sw}/PS1^{dE9} and 5XFAD model of Alzheimer's disease**
M. Weiergräber (Bonn), J. Soos, M. Siwek, V. Raj-Ginde, D. Ehninger, K. Broich, C. Henseler, A. Papazoglou
- 13:15 **OS11-2** **Porcupine controls hippocampal AMPAR levels, composition and synaptic transmission**
N. Erlenhardt (Düsseldorf), H. Yu, K. Abiraman, T. Yamasaki, J. I. Wadiche, S. Tomita, D. S. Bredt

13:30 **OS11-3** **Intracellular pH distribution in cultured hippocampal astrocytes between somata and processes**
A. Weise (Bochum)

13:45 **OS11-4** **Frequency-selective entrainment of lateral septum by hippocampal oscillations mediates top-down control of locomotion**
 F. Bender, M. Gorbati, M. Carus Cadavieco, N. Denisova, X. Gao, C. Holman, T. Korotkova, **A. Ponomarenko** (Berlin)

14:00 **OS11-5** **Optimal synaptic integration windows in the range of high-frequency oscillations through the instantaneous time constant**
A. Yanez (Heidelberg), T. Hondrich, A. Draguhn, M. Both

14:15 **OS11-6** **Hyperpolarization-activated currents facilitate high-frequency action potential firing in cerebellar mossy fibers**
N. Byczkowicz (Leipzig), S. Hallermann

14:30 **OS11-7** **Variable topography of pre- and postsynaptic proteins in the hippocampal mossy fibre tract**
M. Pauli (Würzburg), M. M. Paul, S. Poppert, M. Heckmann, M. Sauer, A. - L. Sirén

14:45 **OS11-8** **Lobule- and layer-specific frequency dispersion in the cerebellar cortex**
I. Straub (Leipzig), M. Hoidis, A. Eshra, I. Delvendahl, K. Dorgans, S. Elise, I. Bechmann, M. Krüger, P. Isope, S. Hallermann

Oral Session 12

13:00–15:00, Hall AM4

Endothelial Cell Physiology

Chairs: **Thomas Korff** (Würzburg)
Beate Fisslthaler (Frankfurt)

- 13:00 **OS12-1** **Distinct stimulus dependent dilatory mechanisms in the murine coronary vascular bed: NO and Cx40-dependent coupling during reactive hyperemia, but prostaglandins upon ACh**
R. Windler (Lübeck), C. de Wit
- 13:15 **OS12-2** **Functional inhibition of ENaC alters the cortical cytoskeleton**
L. Herrnböck (Münster), M. Maase, K. Kusche-Vihrog
- 13:30 **OS12-3** **Supramolecular organization of junction associated intermittent lamellipodia (JAIL) *in vivo***
S. März (Münster), N. Lindemann, J. Cao, M. Taha, E. Montanez Miralles, H. - J. Schnittler
- 13:45 **OS12-4** **Adenosine receptors regulate gap junction coupling in endothelial cells by different pathways**
A. Bader (Hannover), D. Begandt, A. Klett, W. Bintig, A. Ngezahayo
- 14:00 **OS12-5** **Long-term exposure to shear stress stimulates endothelial glycocalyx recovery**
T. Gloe (Mannheim), L. Devermann, G. Ramos-Espinosa, U. Stefanie, K. Bieback
- 14:15 **OS12-6** **Reduced NO sensitivity in arterioles deficient for the soluble guanylyl cyclase alpha 1 subunit *in vivo***
K. Schmidt (Lübeck), Z. Aherrahrou, E. Mergia, D. Koesling, J. Erdmann, C. de Wit
- 14:30 **OS12-7** **Endothelial cell labeling and magnet-assisted purification using a transgenic PECAM/eGFP mouse model**
F. Winkler (Bonn), K. Herz, S. Rieck, T. Hu, J. Heineemann, B. Engelbrecht, M. Hesse, W. Röhl, B. K. Fleischmann, D. Wenzel
- 14:45 **OS12-8** **EPLIN isoforms differentially control adherens junction dynamics in endothelial cells**
M. Taha (Münster), J. Seebach, S. März, H. - J. Schnittler

Oral Session 13

13:00–15:00, Seminar room S4

Transporters

Chairs: **Susanne Milatz** (Kiel)
Christian Stock (Hannover)

- 13:00 **OS13-1** **The ammonia transporter RhCG modulates vacuolar H⁺-ATPase function in renal collecting duct cells**
S. Bourgeois (Zürich, Switzerland), L. Bounoure, I. Mouro-Chanteloup, Y. Colin Aronovicz, D. Brown, C. A. Wagner
- 13:15 **OS13-2** **Role of the organic cation transporter 2 in nephro- and neurotoxicity mediated by chronic treatment with cisplatin**
A. Huccke (Münster), R. Schröter, I. Castanheira, C. Ceresa, G. Cavaletti, E. Schlatter, G. Ciarimboli
- 13:30 **OS13-3** **Dynamics of melanoma cell-cell interaction depending on Na⁺/H⁺ exchanger 1 expression and pericellular pH**
K. A. Koch (Münster), V. Hofschroer, C. Stock, A. Schwab
- 13:45 **OS13-4** **Lactate contributes to fast recovery of activity dependent ion concentration changes in rat CA3 hippocampus**
E. A. Angamo (Berlin), J. Rösner, A. Liotta, R. Kovacs, U. Heinemann
- 14:00 **OS13-5** **Hypoxia-induced carbonic anhydrase IX facilitates lactate transport in human breast cancer cells by non-catalytic interaction**
S. Jamali, M. Klier, S. Ames, L. F. Barros, R. McKenna, J. W. Deitmer, **H. M. Becker** (Kaiserslautern)
- 14:15 **OS13-6** **Digestion physiology predicts sensitivity to CO₂-driven seawater acidification in non-calcifying marine larvae**
M. Hu (Kiel), Y. - C. Tseng, E. Lein, M. Bleich, M. Stumpp
- 14:30 **OS13-7** **Clathrin coat assembly inhibitor disassembles the nuclear pore: Implications for physiology and gene therapy**
I. Liashkovich, G. Rosso, D. Pasrednik, V. Prystopiuk, **V. Shahin** (Münster)

- 14:45 **OS13-8** **OGR1 is involved in acid-induced hypercalciuria**
P. H. Imenez Silva (Zürich, Switzerland), C. Benabbas,
 K. Chan, M. - G. Ludwig, J. Gasser, T. Arnett, O. Bonny,
 K. Seuwen, C. A. Wagner

Public Lecture **16:00, Audienzsaal Rathaus**

Chair: Wolfgang Jelkmann (Lübeck)

Unsere Lebensadern – Was sie leisten, was sie krank macht. Ein Streifzug durch die moderne Kreislaufphysiologie
 Ulrich Pohl (München)



Association & Conference
 Management Group



K.I.T. Group

With more than 25 years of expertise in the organisation of conferences and strategic alliances, we are now based in Germany with Europe at our feet and operational offices worldwide. Over 2,500 congresses, organised across 5 continents, from 50 to 28,000 participants!

We can be everywhere for you!

K.I.T. Group GmbH Dresden
 Münzgasse 2
 01067 Dresden

Phone +49 351 496754-0
 Fax +49 351 495611-6
 info@kitdresden.de

www.kit-group.org

Index of Main Authors, Presenting Authors & Co-Authors

The listed numbers refer to the ID assigned to the corresponding plenary lecture, symposium talk, oral and poster presentation

A			
Abdel Malik, R.	P21-02, P09-13 OS06-4	Bacci, A.	S05-6
Abeßer, M.	P12-09, P12-06 P11-02	Bachmann, S.	P17-02
Abiraman, K.	OS11-2	Bader, A.	P10-03, OS12-4
Abolpour Mofrad, S.	P13-06, P03-10	Bader, M.	P19-11 OS05-6, OS05-6
Abreu-Rodríguez, I.	OS08-1	Bading, H.	P15-05
Abriel, H.	S03-5	Banzer, W.	P02-13
Abu Abida, T.	P05-06	Baransi, S.	OS01-4
Adams, C.	P06-02	Baris, O.	OS07-1
Adams, R.	OS08-2, OS06-3	Barros, L. F.	P19-02, OS13-5
Afonso, S.	P04-09, P04-08	Barth, A.	S05-7
Aherrahrou, Z.	OS12-6	Barthel, S. L.	P20-12, OS01-1
Ahlbrecht, K.	P05-08	Bartos, M.	P15-02, OS09-2 OS04-6, S05-1
Ahmed, M.	P04-10	Baukrowitz, T.	P04-04
Ahsen, V.	P18-12	Baumann, M.	OS02-5
Akhtar, T.	P06-03	Baumann, T.	OS09-7
Albrecht, A.	P09-03	Baumgarten, G.	P20-13
Alesutan, I.	P11-14, OS06-8 OS06-5	Baur, D.	P01-14
Al-Gburi, S.	P12-03	Bayram, B.	P17-03
Alle, H.	P15-13	Becherer, U.	P01-06
Al-Samir, S.	P19-14, P19-13	Bechmann, I.	OS11-8
Alsop, R.	OS10-4	Beck, F. - X.	P17-05
Altay, S.	OS01-2	Becker, A.	P06-04
Althaus, M.	P16-02, P16-01 P05-14, OS08-8	Becker, H. M.	P19-02, P06-12 P06-10, OS13-5
Altrichter, S.	P14-05	Beech, D.	S03-1
Amasheh, S.	P08-09, P08-07 P08-04	Begandt, D.	OS12-4
Ames, S.	P19-02, OS13-5	Behl, C.	P13-04
Ammer, J.	OS09-1	Behrendt, M.	P14-07, P05-05 S03-3
Anders, C.	P20-02	Beier, C.	P16-03
Angamo, E. A.	OS13-4	Beiersdorfer, A.	P03-04
Appelt, P.	P20-06	Beil, V.	P03-13
Arias-Hidalgo, M.	P19-13	Beinlich, F.	P01-01
Arnett, T.	OS13-8	Belviranlı, M.	P20-04, P18-07
Arnold, C.	PS02-5	Benabbas, C.	OS13-8
Aronheim, A.	OS07-6	Bencsik, P.	OS07-6
Arranz, C.	P12-07	Bender, F.	P15-04 OS11-4, OS04-5
Aschenbach, J. R.	P08-09	Bender, K.	P20-14
Asimakopoulos, B.	P18-14	Benedetto, R.	OS03-7
Aslam, M.	P21-07, P11-11 P09-05, OS06-1	Beneke, A.	OS02-4, OS02-1 S08-4
Aßmus, B.	P12-09	Benkert, J.	P02-08
Aue, A.	OS01-7	Benndorf, K.	P16-09, P16-08 P16-07, P16-06, P16-05
Augustin, A.	P12-09	Benz, P.	P11-15
Azzarito, M.	P22-03	Berglund, U.	OS02-5
B		Berkholz, J.	P18-12
Baba, H. A.	P12-09, P12-06, P11-02	Bertog, M.	P21-06, P17-13 OS05-3
Babes, A.	P05-09, P01-12 OS09-8, OS03-5	Bethmann, D.	OS01-5

AUTHORS' INDEX

Bettler, B.	OS04-7	Bresenitz, P.	P16-03
Bettoni, C.	OS05-2	Bressan, E.	P01-08
Beuing, F.	P19-03	Brigadski, T.	P15-01, S09-2
Bieback, K.	OS12-5	Briglia, M.	P10-09
Biermann, D.	P22-08	Brinkmeier, H.	P20-11, P05-04 OS03-2
Bild, W.	OS04-7	Brodski, C.	P02-03
Binas, S.	P12-11, P12-10	Broich, K.	OS11-1
Binder, S.	P15-04	Broichhagen, J.	W01-3
Bintig, W.	P11-08, OS12-4	Brokmeier, U.	OS02-5
Binzen, U.	P03-12	Brosch, M.	S01-3
Biskamp, J. M.	OS09-2	Brown, D.	OS13-1
Blaesse, P.	P14-13	Bruder, R.	P15-04
Blaumeiser-Debarry, R.	P16-04	Brueggmann, T.	P22-04, S01-1
Bleich, M.	P21-12, P17-12 P17-11, P17-04 P07-05, P06-09 OS13-6, OS05-5	Brunn, A.	P20-10
Bley, N.	P05-12	Brunns, D.	P01-06, P01-02
Bloch, W.	S06-5	Brunssen, C.	P11-12, P11-05 P11-03, P09-12
Boeckenhauer, D.	S04-3	Brux, M.	P11-03
Böhm, F.	P21-12	Buchert, R.	OS04-1
Boekhoff, I.	S09-4	Buchta, M.	OS09-3
Bölder, C.	P20-06	Buck, S.	P04-03
Bonny, O.	OS13-8	Buehling, S. S.	P11-14, OS06-5
Boone, C. D.	P06-12	Bulk, E.	P18-13, P04-06
Boretius, S.	P17-04	Bunck, A.	OS07-1
Bork, L.	P20-02	Bunn, H. F.	S08-1
Bornbaum, J.	P22-12	Burckhardt, B. C.	P17-10
Bornschein, G.	P01-14	Burckhardt, G.	P17-10
Borst, O.	OS06-8	Burr, S.	P19-09
Both, M.	P15-10, P15-07 P15-05, OS11-5	Büsselberg, D.	P10-12, P10-11
Bottermann, K.	P20-08, P12-05 P12-04, OS06-7	Buttgereit, A.	OS01-6
Bouchet, G.	P12-07	Buttler, M.	P10-07
Boudkkazi, S.	OS04-1	Byczkovicz, N.	OS11-6
Bounoure, L.	OS13-1	C	
Bourgeois, S.	OS13-1	Cabrita, I.	OS03-7
Braam, U.	P05-11	Caniffi, C.	P12-07
Bradford, B.	P17-03	Cantow, K.	P07-11, P07-10
Brand, T.	OS03-1	Cao, J.	OS12-3, OS06-3
Brandenburger, M.	P10-01, P03-11	Carstens, E.	P05-09, P01-12
Brandes, R. P.	P21-04, P21-01 P10-13, P10-02 P09-11, P09-10 P09-07, P09-06, OS08-5	Carus Cadavieco, M.	OS11-4, OS04-5
Branitzki-Heinemann, K.	S08-2	Castagna, M.	P10-09
Brankač, J.	P15-08 P14-03, P01-13	Castanheira, I.	OS13-2
Braun, H. - S.	P06-03	Castor, T.	OS06-8, OS06-5
Braun, H. A.	P22-09	Castrop, H.	S02-1
Braun, T.	P22-09	Catanese, L.	P19-01
Brechet, A.	OS04-1	Cavadas, M. A. S.	P19-09
Bredt, D. S.	OS11-2	Cavaletti, G.	OS13-2
Brehme, H.	P04-07	Celik, F.	P18-07
Breiderhoff, T.	OS05-5	Cepeda-Prado, E.	P15-11, S09-2
Breitkreutz, N.	P14-08	Ceresa, C.	OS13-2
Brekelmans, R.	P17-06	Cerina, M.	P13-07
Brenner, B.	P22-01 OS07-4, OS07-2	Cesetti, T.	P15-06
		Chalupsky, K.	OS08-6
		Chan, K.	OS13-8
		Chang Liao, M. - L.	P22-05
		Chen, W.	OS01-9
		Chepkova, A.	P13-09
		Chernykh, A.	P03-08

AUTHORS' INDEX

Chilokuti, R. K.	P17-15	Deussen, A.	P21-09, P12-03, P11-06 P11-05, P11-04, PS02-4
Christ, C.	P09-03	Devermann, L.	OS12-5
Christoph, J.	P22-06	Devraj, K.	P21-08
Chubanov, V.	S03-2	Devuyt, O.	OS08-3
Ciarimboli, G.	P06-11, OS13-2	Dhara, M.	P01-02
Cimiotti, D.	OS07-5	Diakov, A.	OS10-6, OS10-3
Ciotu, C.	OS03-5	Dierich, M.	P04-11, P04-01
Clasen, L.	P22-07	Diermeier, S.	OS01-6
Claßen, F.	OS02-5	Dieterich, P.	P21-10, P11-06
Clemen, C. S.	OS01-6	Dietl, P.	P08-08, P08-06 P08-05, P08-03 P08-01, P06-06, S09-3
Coburn, M.	P16-04	Dietrich, A.	P05-08
Cockcroft, N.	P11-03	Dietz, K.	P02-13
Cohen, C.	OS08-3	Dietzel, I. D.	P16-10, P10-05
Colin Aronovicz, Y.	OS13-1	Dietzel, S.	OS06-2
Colleaux, L.	OS04-1	Ding, Z.	OS07-7
Cordeiro, S.	P04-04	Dinica, C.	P05-09
Cosgun, Z. C.	OS10-7	Dittmann, S.	OS03-1
Crifo, B.	P19-09	Dittrich, N.	P06-07
Csicsvari, J.	S05-4	Domocos, D.	P05-09, P01-12
Csont, T.	OS07-6	Dorgans, K.	OS11-8
Cummins, E. P.	P19-09	Dragicevic, E.	P02-08
Cybularz, M.	P11-05	Draguhn, A.	P15-10, P15-08 P15-07, P15-05 P14-03, P01-13, OS11-5
Czogalla, J.	S04-2	Drakew, A.	P15-12
D		Dreier, R.	P18-02
Dacre, J.	OS09-1	Dreist, R.	OS03-2
Dahal, B. K.	P11-02	Drewell, H.	OS05-5
Danz, B.	P20-07	Dreus, O.	P12-01
Daryadel, A.	P18-11, P07-12 P07-08	Droste, D.	P03-05, P03-04
Das, A.	P21-13	Duda, J.	P02-08
David, R.	P22-02, OS07-8	Dudek, J.	OS02-1
de Bruijn, P.	P17-06	Dudel, J.	P14-04
de Luca, R.	P02-07	Düfer, M.	P18-04, P10-06, P03-06
de Mooij-van Malsen, A.	P15-03	Duguid, I.	OS09-1
de Silva, K.	P11-13	Dunda, S.	OS07-2
de Wit, C.	P11-15 OS12-6, OS12-1	Dünnes, S.	OS01-3
Decher, N.	OS03-1, S04-4	Dunst, J.	P19-10
Deckert, M.	P20-10	Duvarci, S.	P02-02
Deenen, R.	P20-08, P12-04	Dziombła, S.	P21-08, P03-07 PS02-2
Defren, S.	P18-09	E	
Deichmann, E.	P20-14	Ebersberger, A.	OS09-4
Deichmann, R.	P02-13	Eckels, E. C.	OS01-8
Deitmer, J. W.	P19-02, P18-10 P18-09, P06-12 P06-10, OS13-5	Eckenstaler, R.	S09-2
Dell' Oro-Friedl, J.	P22-09	Edelmann, E.	P15-11, S09-2
Delvendahl, I.	OS11-8, OS04-3	Edemir, B.	P17-07
Dembla, E.	P01-06	Ederer, S.	OS07-1
Dembla, S.	P14-07, P05-05 OS03-3	Efimov, I.	P22-10
Demirel, E.	PS02-5	Egli-Spichtig, D.	OS05-2
Dendorfer, A.	P22-04, OS07-8	Egorov, D.	P21-09, PS02-4
Denen, R.	OS06-7	Ehling, M.	OS06-3
Dengler, F.	P19-04	Ehmann, N.	P14-01, P01-05
Denisova, N.	OS11-4	Ehmke, H.	P22-08, P07-07
Depping, R.	P19-12, P19-11 P19-10, OS02-7	Ehninger, D.	OS11-1
Deuschl, G.	P20-01	Ehrlich, G.	P16-07

AUTHORS' INDEX

Gao, S.	P14-01	Grahammer, F.	OS05-8, S02-2
Gao, X.	P15-04, OS11-4	Grahl, P.	P20-11
Gáspár, R.	OS07-6	Grau, V.	P05-14
Gaspar, J. A.	P20-10	Grebl, F.	P08-05
Gasser, J.	OS13-8	Greffrath, W.	P03-12, P01-09
Gassmann, M.	OS04-7	Grein, J.	OS04-4
Gaßner, B.	P21-03, P11-02	Greten, S.	P22-01, OS07-4
Gauthier-Kemper, A.	OS04-7	Grinevich, V.	P15-07
Gawaz, M.	OS06-8	Grisk, O.	P11-07, OS05-1
Gebhardt, C.	P02-01	Groneberg, D.	OS01-7, OS01-3 PS02-6
Geers-Knörr, C.	P22-01, P19-13	Gros, G.	P19-14, P19-13
Gehring, N.	P07-12, OS05-2	Grosenick, D.	P07-11
Gehrmann, S.	P08-15	Großmann, C.	P21-06, P12-11 P12-10, P08-10
Geiger, J. R. P.	P15-13, P15-09 P13-08, P09-04 P02-01	Grottemeyer, A.	P14-01
Geisler, C.	P03-13	Grothuesmann, L.	P16-04
Geißler, C.	P19-11	Gründer, S.	P16-04, P16-03 P05-10, P02-04 OS10-8, OS10-4, OS10-2
Gekle, M.	P18-08, P17-14, P12-11 P12-10, P08-10, OS01-5	Gu, L.	P21-01
Genové, G.	PS02-5	Guan, C.	P14-02
Gensch, T.	P01-01	Gudermann, T.	P05-08
Gerevich, Z.	P13-08	Guentsch, A.	OS02-1
Gerl, K.	OS08-2	Guerrero, H.	OS04-4
Gerri, C.	OS08-4	Guldner, C.	P20-09
Geschwill, P.	P15-10	Guldner, M.	P20-05
Gesper, A.	P10-05	Guli, X.	P13-01
Giacca, M.	P20-14	Gündüz, D.	P21-07, P09-05 OS06-1
Giebe, S.	P11-03	Gunga, H. - C.	OS01-10
Giesecke, T.	P17-02	Günzel, D.	P06-09, OS05-5
Gilbert, D. F.	P13-06, P03-10	Gutsche, K.	OS02-6
Glaser, U.	P19-15	Guzman, R.	P01-01
Glasl, S.	P10-08	H	
Glaudemans, B.	P07-13, OS05-2	Haas, H. L.	P13-09
Glebova, A.	P02-08	Habazettl, H.	OS01-10
Gloe, T.	OS12-5	Haberkorn, B.	P02-04
Gödecke, A.	P20-08, P12-12 P12-05, P12-04 OS06-7, PS02-4	Hackert, J.	P13-03
Gödecke, S.	P12-05	Haerteis, S.	P05-06, OS10-3
Goedecke, L.	P14-13	Hagenacker, T.	P01-11, P01-10 P01-07
Goetsch, J.	P02-11	Hagos, L.	P03-02
Gohla, G.	P18-06, P02-12 P02-11, OS09-7	Hagos, Y.	P17-10
Gollasch, M.	S10-3	Hakenberg, O.	P11-01
Gómez, M.	P12-07	Halaszovitch, C. R.	P13-10, P10-04 OS03-8
González Maglio, D.	P12-07	Hall, I.	OS08-7
González, W.	OS03-1	Haller, T.	P08-03
Göpelt, K.	OS02-5	Hallermann, S.	OS11-8, OS11-6 OS04-3
Gorbati, M.	OS11-4, OS04-5	Halligan, D. N.	P19-09
Gorbunov, D.	P06-01	Haltmeier, M.	P07-02
Goressen, S.	P12-02	Hamm, C.	P09-05, OS06-1
Gorina, Y.	P03-08	Hammes, H. - P.	P21-08, P03-07 PS02-2
Gorji, A.	P13-07	HAMPL, M.	P16-11, P01-08
Görlach, A.	OS08-6	Handrick, R.	P09-01
Gotti, G. C.	P13-08, P09-04	Hanika, S.	P10-10
Gottschalk, K. E.	P08-03, P08-02		
Götz, S.	P02-03		
Goycoolea, F. M.	P06-08		

AUTHORS' INDEX

Eilers, J.	P01-14	Filipova, D.	P20-10, OS01-4
Eisenhauer, A.	P21-12	Filipovic, M.	OS09-8 S10-2, S10-1
Eitner, A.	P13-05, OS09-4	Fischer, C.	P22-04
El Armouche, A.	PS02-11	Fischer, F.	OS10-1
Elgueta, C.	P14-10, OS04-6	Fischer, M.	P22-01, OS09-8 OS09-5, OS03-5
Elhamine, F.	OS07-3	Fißlthaler, B.	P21-02, P11-13 P09-13, OS06-4
Elise, S.	OS11-8	Fleckenstein, J.	P02-13
Elsemann, S.	P03-13	Fleischmann, B. K.	OS12-7, OS08-7
Elvira, B.	P04-10	Fleming, I.	P21-08, P21-02 P11-15, P11-13, P09-13 P09-11, P03-07 OS06-4, PS02-2
Endeward, V.	P19-14, P19-13	Fleming, T.	P08-15
Endres, T.	P14-11	Flemming, B.	P07-11, P07-10
Engelbrecht, B.	OS12-7	Flögel, U.	P12-12, PS02-10
Engelhard, K.	P13-04	Florea, A. - M.	P10-12, P10-11
Engelmann, F.	P09-12	Flück, K.	S08-3
Engeroff, T.	P02-13	Foerster, A.	P01-08
Enke, U.	P16-08, P16-06	Foggetti, A.	S05-2
Erdmann, J.	OS12-6	Föllner, M.	P07-12, OS05-2
Erkasap, N.	P17-03, P08-11	Forero Quintero, L. S.	P06-10
Erkasap, S. M.	P17-03, P08-11	Fork, C.	P21-04, P21-01 P10-13, P10-02
Erkel, M.	P01-07	Forst, A. - L.	P04-09, P04-08
Erlenhardt, N.	P22-07, OS11-2	Francino, A.	OS07-2
Ermilov, E.	P18-12	Frank, T.	P02-08
Ernstberger, P.	OS07-2	Frede, S.	P20-13
Eshra, A.	OS11-8	Fregin, T.	OS09-3
Euler, G.	P22-12, OS07-6	Freise, J.	P13-03
Evgeni, E.	P18-14	Frew, I.	OS05-2
F		Frey-Wagner, I.	OS05-2
Fabrizio, J. - A.	P19-09	Frick, M.	P08-08, P08-06 P08-05, P08-03 P08-02, P06-06, S09-3
Faggio, C.	P10-09	Friebe, A.	OS01-7, OS01-3 PS02-6
Fahlbusch, H.	P20-03	Friebe, D.	OS07-7
Fähling, M.	OS09-6	Friedl, P.	P18-01
Fahlke, C.	P03-09, P01-01	Friedrich, C.	OS03-1
Fakler, B.	OS04-7, OS04-1	Friedrich, O.	P13-06, P03-10 OS01-6, S06-3
Falkenburger, B.	P02-04	Frisch, W.	P01-02
Fandrey, J.	P19-15, P19-06 P19-05, P19-03 OS02-2	Fritzius, T.	OS04-7
Farassat, N.	P02-09, P02-06	Frohn, M.	P20-12, OS01-1
Farhat, K.	OS02-1	Fromm, M.	OS05-5
Fauler, M.	P08-02, P06-06	Fronius, M.	P06-07, P05-14
Federlein, A.	OS05-7, OS05-4	Frontzek, F.	P18-02
Feger, M.	P11-14 OS06-8, OS06-5	Frotscher, M.	P15-12
Fein, E.	P22-04	Fu, H.	P08-13
Felder, T.	P08-01	Fuady, J. H.	OS02-6
Feldmann, L. K.	P13-04	Fuchs, B.	P05-08
Fels, B.	OS03-3	Fűzék, E.	P02-13
Fels, J.	P20-15	G	
Felzen, V.	P13-04	Gaal, L.	P12-01
Ferdinandy, P.	OS07-6	Gäbel, G.	P21-11, P19-04
Fernández Fernández, E.	P06-08 S01-2	Gabriel, P.	P20-06
Fernandez, J. M.	OS01-8	Galli, R.	P12-03
Ferrara, F.	P07-11, P07-10		
Fey, T.	P22-04		
Fezai, M.	P04-10		
Fiedler, N.	P20-06		
Figueiredo, M.	P07-08, OS05-6		

AUTHORS' INDEX

Hannes, T.	P22-11	Hesse, J.	OS07-7
Happel, P.	P10-05	Hesse, M.	OS12-7
Harenkamp, S.	P09-06, OS08-5	Hettwer, S.	P07-08
Härtel, F.	P21-13, P21-10	Heumann, P.	P11-07
Hartmann, E.	P19-11	Hewitt, K.	P11-03
Hartmann, J.	P06-01	Heymann, A. K.	P19-06
Hartmann, K.	OS01-9	Heyne, J. - H.	P15-01
Hartmann, S.	OS06-6	Hickethier, T.	OS07-1
Hasam-Henderson, L. A.	P13-08, P09-04	Hickmann, L.	P07-09, P07-03
Hattingen, E.	P02-13	Hill, C.	OS07-6
Haubitz, M.	P07-08	Hille, K.	OS03-4
Hausburg, F.	P22-02	Hillemann, A.	OS02-1
Häussinger, D.	P13-09	Hilsdorf, S.	OS01-4
Havemann, R.	P20-07	Himmerkus, N.	P17-12, P17-11 P17-04, P07-05 P06-09, OS05-5
Havlicek, S.	P16-11	Hirnet, D.	P14-09, P14-08 OS09-3
Hecker, A.	P05-14	Hirseland, E.	P03-13
Hecker, M.	P12-01, P08-15 OS06-2, PS02-5	Hitzel, J.	P21-01
Heckmann, M.	P14-14, P14-04 P01-04, OS11-7 OS04-8, OS04-2	Hobi, N.	P08-05, P08-03 P08-02
Heger, J.	P22-12, OS07-6	Hobiger, K.	P13-10
Hegermann, J.	P22-01	Hoffmann, B.	P18-12, P10-14
Heidler, J.	P09-13, P09-10	Hoffmann, C.	P14-05
Heidtmann, H.	P06-12	Hofherr, A.	OS03-6
Heine, C. L.	OS06-5	Hofmann, A.	P11-12
Heinekamp, L.	P17-04	Hofschröer, V.	P21-06, P18-03 P18-02, P18-01 P04-06, OS13-3
Heinemann, J.	OS12-7	Hoheisel, U.	P01-09
Heinemann, U.	OS13-4	Hohenstein, B.	P07-09, P07-03
Heinen, A.	P12-12, P12-05 PS02-8	Hoidis, M.	OS11-8
Heinrich, H. - B.	P11-09	Hollnagel, J. - O.	P15-06
Heinrichs, W.	P20-05	Holman, C.	OS11-4
Heise, C.	OS01-5	Hölscher, N.	P12-12
Heisterkamp, A.	P04-14	Homuth, G.	P17-15
Heitzmann, M.	P05-07	Hondrich, T.	OS11-5
Helbig, L.	P19-08	Honisch, S.	P10-09
Helfinger, V.	P09-11, P09-06	Hoogewijs, D.	P19-07, OS08-3 OS08-1, OS05-2 OS02-6
Helleday, T.	OS02-5	Höpfner, M.	P18-12, P11-08 P10-14
Hellwig-Bürgel, T.	P08-12	Horschitz, S.	P03-12
Helmig, S.	P20-14	Horstmann, M.	P05-07
Henjakovic, M.	P17-10	Hou, J.	P17-11, OS05-5
Henke, N.	P09-06	Hu, J.	P21-08, P03-07 PS02-2
Henle, T.	P11-06	Hu, M.	OS13-6
Henseler, C.	OS11-1	Hu, T.	OS12-7
Herbst, E.	P16-09	Huber - Lang, M.	P08-08
Hermann, A.	S11-4	Hucke, A.	OS13-2
Hermann, S.	PS02-9	Hufendiek, F. W.	P13-07
Hermes, D.	P04-15	Hugo, C.	P07-09, P07-03 P07-01
Hernando, N.	P17-09, P06-09	Huhn, R.	P12-12
Herold, V.	OS01-3	Hülsmann, S.	P03-02, P01-03
Herrnböck, L.	OS12-2	Hummeler, E.	OS08-1
Hertrampf, I.	P06-04	Hünerberg, M.	P12-10, OS01-5
Herz, K.	OS12-7		
Herzog, N.	OS09-7		
Hescheler, J.	P05-03		
Heß, V.	OS09-6		

AUTHORS' INDEX

Hupfeld, J.	P12-11	Kawahara, K.	P17-02
Hupp, S.	P21-03	Kazmierowska, M.	P12-02
Husse, B.	P22-04, OS07-8	Keckeis, S.	P06-05
Husseinzadeh, Z.	P04-10	Kelm, M.	P22-07
Huth, T.	P16-13	Kenk, H.	P20-11, P05-04
Hüttner, C.	P19-08	Kernig, K.	P11-01
Igelhorst, B. A.	P16-10, P10-05	Kerschbaum, H.	P10-08, P03-03
Ihle, K.	P21-13	Kesemeyer, A.	PS02-11
Ihtiyar, E.	P08-11	Keurhorst, D.	P18-02
Ilyaskin, A.	OS10-6, OS10-3	Khorrani, M.	P18-11
Imenez Silva, P. H.	OS13-8, OS05-2	Kichko, T.	OS09-8
Imeri, F.	OS08-1	Kiemer, F.	P04-16
Iorga, B.	P22-01, OS07-4	Kier, J.	P10-01
Ishii, I.	S10-6, S10-3	Kiper, A. K.	OS03-1
Isope, P.	OS11-8	Kirchhof, S.	P04-11
Jacobsen, I.	S02-3	Kirschner, K. M.	P19-01, OS02-8
Jakab, M.	P10-08, P03-03	Kirschstein, T.	P13-03, P13-02 P13-01, P11-01 P04-07
Jakob, P.	OS01-3	Kistenmacher, A.	P18-06, P02-12 P02-11, OS09-7
Jamali, S.	OS13-5	Kittana, N.	OS06-6
Jamra, R. A.	OS04-1	Kittel, R. J.	P14-02, P14-01 P01-05
Janka, S.	OS09-7	Kittl, M.	P10-08, P03-03
Jaquet, K.	OS07-5	Kizina, K.	P09-08
Jatho, A.	OS06-6	Klapal, L.	P16-10
Jauch-Chara, K.	P02-12, P02-11	Klapperstück, M.	P05-12
Jeggle, P.	P21-06	Klarlund Pedersen, B.	S06-4
Jelinek, M.	P22-08	Klemens, J. M.	P03-11
Jelkmann, W.	P08-12, OS02-7	Kless, A.	P05-13
Jendrossek, V.	P09-01	Kleszka, K.	P19-05
Jensen, B.	S04-5, S02-3	Kleta, R.	P17-04
Jentsch, T. J.	PS01-1	Kletke, O.	P22-07
Jesserger, J.	P14-03	Klett, A.	P10-03, OS12-4
Jetschin, N.	P07-03	Klier, M.	OS13-5
Josipovic, I.	P10-02	Klietz, A.	P17-11
Jung, F.	P05-07	Klingauf, J.	OS04-7
Jung, J. J.	OS07-8	Klisch, C.	P15-09, P13-08
Jungen, C.	P22-07	Klöcker, N.	P22-07, P14-06
Jüngling, K.	P14-13	Knauf, F.	OS05-2
Jürs, B. C.	P04-04	Knöpfel, T.	P17-09, P06-09
Just, A.	P07-06	Knüfermann, P.	P20-13
Kadiyska, I.	P08-15	Koch, K. A.	P18-01, OS13-3
Kaiser, M.	P15-10, P15-07	Koch, M.	OS01-1
Kalbacher, H.	OS10-2	Koenen, A.	P11-07, OS05-1
Kameritsch, P.	P04-13, P04-12	Koesling, D.	OS12-6
Kanchev, I.	OS08-6	Köhling, R.	P13-03, P13-02 P13-01, P11-01 P04-07, PL-04
Kann, O.	P15-06, W01-4	Kohlstedt, K.	P11-13
Karger, C.	P07-01	Köhrer, K.	P20-08, P12-04 OS06-7
Karoline, N.	P05-07	Kojonazarov, B.	P11-02
Kasim, M.	OS09-6	Kollewe, A.	OS04-7
Kasper, M.	P12-03	Kolonko, K.	P06-08
Katschinski, D.	P19-08, OS06-6 OS02-4, OS02-1 S08-4, PS02-11	Kolp, H.	P13-03
Kaufenstein, S.	OS10-2	Komleva, Y.	P03-08
Kaufhold, D.	P15-02	König, C.	OS09-4
Kaup, U. B.	PS01-6		

AUTHORS' INDEX

Lin, J.	P21-08, P03-07 PS02-2	Mamczak, N.	P10-10
Lindemann, N.	P21-05, OS12-3	Mamedova, L. K.	P17-03
Lindemann, O.	P05-07	Manahan-Vaughan, D.	PL-01
Lindemann, T.	P10-10	Mandl, M.	P19-12, P19-10
Lindenmeyer, M.	OS08-3	Mannell, H.	P08-14
Lin-Holderer, J.	P09-02	Mansley, M. K.	OS05-3
Linke, W. A.	OS01-8	Marcu, I. C.	P22-03
Linkermann, A.	P07-05, S02-5	Margraf, N.	P20-01
Linnebacher, M.	P13-02, P04-07	Marin-Juez, R.	OS08-4
Liotta, A.	OS13-4	Markó, L.	S10-4, S10-3
Lipscombe, D.	PS01-4	Markov, A. G.	P08-09, P08-04
Liss, B.	P02-08	Markwardt, F.	P05-13, P05-12 P05-11
Ljaschenko, D.	P14-04	Marshall, L.	P15-04
Lodewick, C.	P19-03	Martens, J. C.	P18-06, P02-12 P02-11, OS09-7
Loffing, J.	P07-12, S04-2	Marti, H. H.	P09-02
Lohr, C.	P14-09, P14-08 P03-05, P03-04, OS09-3	Martin, M.	P11-06, P11-04
Löhrer, D.	P05-10	Martin, U.	P22-01, OS07-4
Looso, M.	P21-01, P10-13, P10-02	Marx, C.	P07-07
Lopatina, O.	P03-08	März, S.	OS12-8, OS12-3
Loppnow, H.	P08-13	Masch, A.	P08-10
Loreth, D.	P05-01	Mathes, V.	P05-14
Lourenco, J.	S05-6	Matschke, K.	P11-05, PS02-4
Löwe, O.	P09-11, P09-10	Matthey, M.	OS08-7
Löwer, A.	S11-2	Matthießen, A. E.	P10-01
Lubomirov, L. T.	OS01-4	Matura, S.	P02-13
Lucius, R.	P17-04	Mauceri, D.	P15-05
Luck, B.	P11-13	Maurer, J.	P15-05
Lüdemann, A.	P07-09	Mayer, G.	P16-09
Ludwig, F. T.	P18-01	Mayer, J.	P13-02
Ludwig, M. - G.	OS13-8	McIntosh, M. J.	P05-14
Lunow, D.	P11-06	McKenna, R.	P06-12, OS13-5
Luther, S.	P22-06	Mebs, D.	OS10-2
Lutz, S.	OS06-6	Meents, J.	P16-13, P16-12 P01-08
Lütz, W.	P13-05	Meier, C.	P04-09
Lutze, P.	P17-15	Meinitzer, A.	OS06-5
Lymberopoulos, G.	P18-14	Meis, S.	P14-11
M		Melchert, U. H.	P18-06, P02-12, P02-11
M. Costa, K.	P02-10, P02-06	Melnikova, M.	P01-07
Maase, M.	P21-06, OS12-2 OS10-1	Menne, J.	P06-11
Maassen, M.	P20-03	Mergia, E.	OS12-6
Maassen, N.	P20-03	Messer, M.	P02-10
Madadi, A.	P04-07	Metzen, E.	P09-01, OS02-5
Mäder, A.	P07-08	Metzler, D.	P20-12, OS01-1
Maerz, W.	OS06-5	Meurs, H.	OS08-7
Mahabir, E.	S07-3	Meyer, C.	P22-07
Mahalakshmi, S.	P02-09	Meyer, R.	P20-13
Maibier, M.	P11-08	Meyer, R. S.	PS02-11
Maier, L.	P05-09	Meyering, B.	OS07-6
Maier, P.	P15-07	Meyer-Lindenberg, A.	P03-12
Maier, U.	P15-12	Mia, S.	OS06-8
Majchrzak, M.	OS07-5	Michaelis, U. R.	P21-04
Makimoto, H.	P22-07	Michel, K.	P12-06
Makul, M.	OS07-2	Michelke, L.	P11-04
Malczyk, M.	P05-08	Miesenböck, G.	PS01-7
Malinovskaya, N.	P03-08		

AUTHORS' INDEX

König, G.	OS08-7	Kusch, V.	P01-14
Kono, Y.	P01-03	Kuschak, M.	OS08-7
Konrad, M.	P04-08	Kusche, J.	P16-09
Kopaliani, I.	P21-09, P12-03 PS02-4	Kusche-Vihrog, K.	P21-06, OS12-2 OS10-7, OS10-1
Korbmacher, C.	P17-13, P05-06, OS10-6, OS10-5 OS10-3, OS05-3	Kutlay, Ö.	P17-03
Korejwo, D.	P08-03	Kutsche, H.	OS08-8
Korff, T.	PS02-5, S07-1	Kuzyniak, W.	P18-12, P10-14
Korotkova, T.	OS11-4, OS04-5	L	
Koschinsky, K.	P04-01	Lachmann, P.	P07-03
Koser, F.	P12-01	Ladilov, Y.	P21-13
Koshimizu, T.	P17-02	Ladwig, M.	P07-10
Kostareva, A.	OS07-5	Lampe, J.	OS05-1
Kostenis, E.	OS08-7	Lampert, A.	P16-13, P16-12 P16-11, P01-08 S11-1
Kosuri, P.	OS01-8	Landsberger, M.	P20-11, P05-04
Kosyna, F. K.	OS02-7	Lang, F.	P11-14, P10-09 P07-12, P04-10 OS06-8, OS06-5 OS05-2
Kötter, S.	P22-10, P12-02	Langbein, H.	P11-12, P11-05
Köttgen, M.	OS03-6	Lange, F.	P13-02
Kovacheva, L.	P02-06	Langenhan, T.	P14-14, P14-05 P14-02, P14-01 P01-05
Kovacs, R.	P13-08, P09-04 OS13-4	Laprell, L.	W01-3
Koval, M.	P04-14	Larsson, L.	S06-3
Kovermann, P.	P03-09	Le Prieult, F.	P13-04
Kracun, D.	OS08-6	Leberling, S.	OS07-7
Kraft, T.	P22-01, OS07-4 OS07-2	Lechner, S. G.	S11-2
Kranz, P.	OS02-5	Lehmenkühler, A.	P13-05
Krause, N.	OS08-8	Leibrock, C.	OS06-8
Krautwald, M.	P05-04, OS03-2	Lein, E.	OS13-6
Krautwald, S.	P07-05	Leipziger, J.	P17-06, S02-4
Kremers, A.	P04-05	Leisegang, M. S.	P21-01, P10-13 P10-02, PS02-1
Kretschmann, A.	P08-14	Leitner, L. M.	P20-08, P12-04 OS06-7
Krötz, F.	P08-14	Leitner, M. G.	P10-04, P04-11 P04-01, OS03-8
Krueger, B.	OS10-5	Lenzig, P.	OS10-8
Krüger, K.	P19-01	Leo, M.	P01-11, P01-10 P01-07
Krüger, M.	P22-10, P12-02 OS11-8	Leroy, F.	P14-10
Krull, S.	P19-08	LeBlich, H. M.	P10-05
Kruse, C.	P21-04	Lessmann, V.	P15-11, P15-01 P14-11, S09-2
Kucera, J. P.	P22-03	Leuchtweis, J.	P13-05
Kuenzel, K.	P13-06, P03-10	Leuschner, F.	P08-15
Kuhn, M.	P21-03, P18-05 P12-06, P11-02 OS05-4, OS01-9	Lewen, A.	P15-06
Kuhtz-Buschbeck, J. P.	P20-01	Lewin, G. R.	S11-2
Kulik, A.	P05-01, OS04-1	Li, L.	P11-11, P10-07
Kullmann, D.	PS01-2	Liashkovich, I.	P18-02, P03-01 OS13-7
Kunz, W. S.	OS07-1	Lichtenecker, P.	P15-01, S09-2
Kunze, R.	P09-02	Liebe, F.	OS03-4
Kunzelmann, K.	OS03-7	Lieberum, M. - K.	P19-12, P19-10
Kunzendorf, U.	P07-05	Lienerth, B.	P02-13, P02-13
Küper, C.	P17-05	Lies, B.	OS01-7, PS02-6
Kuro-O, M.	OS06-8, OS06-5		
Kurt, B.	OS08-2		
Kurtz, A.	TL-01, P07-01, OS08-2		
Kurz, E.	P20-02		
Kusch, J.	P16-05		

AUTHORS' INDEX

Miebler, K.	P08-04	Nagel, M.	P19-10, OS02-7
Miklavc, P.	P08-01, S09-3	Nakagawa, H.	P18-05
Milatz, S.	P17-11, OS05-5	Namer, B.	OS09-8
Mildenberger, S.	P12-10, OS01-5	Naoshin, Z.	P18-10, P18-09
Miljkovic, J.	S10-2	Nassenstein, C.	P14-07
Milting, H.	OS07-5	Nathan, J. A.	P19-09
Mittmann, T.	P13-04	Nativi, C.	P01-11
Mizaikoff, B.	P08-08	Naumann, S.	P20-12
Mohebbi, N.	P07-13, P07-12	Navarro-Lopéz, F.	OS07-2
Möhner, D.	OS07-5, OS07-3	Neacsu, C.	OS09-8
Mohnke, D.	P22-09	Neder, T.	P17-01
Mohr, F.	P14-07, P05-05 S03-3	Nederlof, R.	P12-05
Mohrmann, R.	P01-06, P01-02	Negro, G.	PS01-5
Moll, F.	P09-09, OS08-5	Nehmet, J.	P02-08
Moll, J.	P12-02	Neiss, W. F.	OS01-1
Möller, C.	OS09-4	Nembo, E.	P05-03
Möller, M.	P16-04	Nemmer, J.	P20-08, P12-04 OS06-7
Möllerherm, H.	S08-2	Nesterov, V.	P17-13
Mombeck, E.	P01-11	Neubauer, B.	P17-01, P07-01
Montag, J.	OS07-2	Neugebauer, A.	P19-05
Montanez Miralles, E.	OS12-3	Neugebauer, J.	P02-01
Moparthi, L.	OS09-8	Neuhaus, J.	OS07-1
Morawietz, H.	P11-12, P11-05 P11-03, P09-12	Neuhofer, W.	P17-05
Morch, A.	P17-15	Ngezahayo, A.	P10-03, P06-04 P04-15, P04-14 OS12-4
Morch, E.	OS09-4	Nguyen Chi, V.	P15-08
Morgenstern, J.	P08-15	Nguyen, G.	OS05-6
Mouro-Chanteloup, I.	OS13-1	Nieberler, M.	P14-02
Moussaoui, L.	P16-03	Niedzielski, L.	OS10-1
Moutsis, T.	P04-05	Nielsen, N.	P18-03, P05-07
Mrestani, A.	P14-14	Niemann, B.	P12-08, P11-11 P10-07
Mroginski, M. A.	P13-10	Niendorf, T.	P07-11, P07-10
Mrowka, R.	P07-02	Nies, F.	P06-01
Mügge, A.	OS07-5	Nikolaev, V. O.	PS02-11
Mügge, F.	OS06-6	Nissen, N.	P10-01
Mulder, E.	OS01-10	Nitzsche, B.	P18-12, P11-08 P10-14
Müller, B.	P04-05	Noack, T.	P22-09, P22-02 P11-10, P11-09 P07-04, P06-02
Müller, C.	P05-11, OS08-7	Nobiling, R.	S07-6
Müller, D.	OS05-6	Nolan, K. A.	P19-09, OS08-1
Müller, J.	P06-04	Noll, T.	P21-13, P21-10
Müller, M.	P09-08	Nonnenmacher, L.	P08-08
Müller, P.	P22-02	Noor, S. I.	P06-12
Müller, S.	P04-07	Nordine, M.	OS01-10
Müller, V.	P22-11	Nuñez-Badinez, P.	P01-09
Münch, L.	OS08-8	Nürnberg, S.	P11-11
Munsch, T.	P14-11, S09-2	O	
Musculus, K.	OS06-5	O'Neill, J.	S05-4
Musinszki, M.	P04-04	Oberleithner, H.	P20-15
Mutig, K.	P17-02, OS05-5	Oberwinkler, J.	P14-07, P05-05 S03-3
N		Odenthal, J.	P18-01
Nache, V.	P16-09	Odermatt, A.	OS08-3
Naescu, C.	P16-13	Oeck, S.	P09-01
Nafz, B.	P20-07		
Nafz, D.	P20-07		
Nafz, P.	P20-07		
Nagarajan, S.	OS02-1		
Nagel, G.	P14-01		

AUTHORS' INDEX

Offenhäusser, A.	P02-04	Pfeffer, M.	P20-08, P12-04 OS06-7
Okudan, N.	P20-04, P18-07	Pfeilschifter, J.	S10-5
Oliver, D.	P13-10, P10-04 P06-01, P04-11 P04-01, OS03-8	Pfitzer, G.	P20-12, P20-10 OS07-5, OS07-3 OS01-4, OS01-1
Olschewski, N.	P18-03	Pfundstein, S.	OS08-1
Olson, K.	OS08-8	Pickel, C.	P19-09, OS02-3
Oltmanns, K. M.	P18-06, P02-12 P02-11, OS09-7	Pieske, B.	OS06-8, OS06-5
Opatz, O.	OS01-10	Pilatus, U.	P02-13
O'Reilly, A.	P16-13	Piiz, S.	OS06-8, OS06-5
Orlova, O. G.	P08-09	Pinggera, A.	PS01-5
Orth, A.	P14-06	Pippel, A.	P05-13, P05-11
Ortiz-Bonnin, B.	OS03-1	Pircher, J.	P08-14
Ortner, N. J.	PS01-5	Plain, A.	P17-11
Otte, M.	P16-06	Pogoda, K.	P04-16, P04-13 P04-12
Otto, S.	PS02-4	Pohl, U.	P22-04, P08-14 P04-16, P04-13 P04-12, OS06-2
Otto, T.	P19-15	Pohlmann, A.	P07-10
Oxlund, C.	S02-3	Poley, P.	P11-15
Ozkurt, M.	P17-03, P08-12 P08-11	Polovic, M.	P17-14
Ozyurt, R.	P17-03, P08-11	Pompsch, M.	OS02-5
P		Pongs, O.	P02-08
Padberg, W.	P05-14	Ponomarenko, A.	P15-04, OS11-4, OS04-5
Pagel, H.	P20-09, P07-04	Ponsel, S.	P01-13
Pajazitii, B.	P18-04	Popp, R.	P21-08, P03-07 PS02-2
Palacios, A.	P14-10	Popp, S.	OS04-4
Paladini, C.	P02-05	Poppert, S.	OS11-7
Pálfi, K.	P21-04	Post, A.	OS04-4
Pálóczy, J.	OS07-6	Pötschke, C.	P02-08
Pantel, J.	P02-13	Pott, J.	OS08-8
Papadopoulos, S.	P20-12, P20-10 OS01-4	Poulet, J.	S05-5
Papazoglou, A.	OS11-1	Praetorius, H.	P17-06
Pape, H. - C.	P14-13, P13-07	Prakash, N.	P02-03
Paske, M.	P22-08	Prato, V.	S11-2
Pasrednik, D.	OS13-7	Preller, M.	P04-14
Pastor Arroyo, E. M.	P17-09	Prentki Santos, E.	P12-07, P12-06
Patejdl, R.	P22-09, P22-02 P11-10, P11-09 P07-04, P06-02	Preussner, J.	P21-01, P10-13 P10-02
Paul, M. M.	P14-14, P01-04 OS11-7, OS04-8, OS04-2	Pries, A. R.	P11-08
Pauli, M.	P01-04, OS11-7 OS04-8, OS04-2	Prior, K. - K.	P09-11, P09-07
Peet, D. J.	P19-09	Proppert, S.	OS04-8, OS04-2
Peeva, V.	OS07-1	Prudat, Y.	P22-03
Pelster, A.	P18-06	Prudic, K.	P05-11
Peng, Y.	P15-09	Prütz, M.	P11-10
Penton Ribas, D.	S04-2	Prystopiuk, V.	P20-15, OS13-7
Pérez-Garci, E.	OS04-7	Puetz, S.	OS01-1
Perniß, A.	P16-02, P16-01	Q	
Perrot, A.	OS07-2	Quarch, K.	P12-11
Persson, P.	OS09-6	Quintanova, C.	P04-09, P04-08
Pessoa, T. D.	P05-06	R	
Peters, B.	P17-15	Raatz, J.	P20-03
Peters, J.	P19-08, P17-15	Rabbani, I.	P06-03
Petry, A.	OS08-6	Rabe, S.	P12-11, P12-10, OS01-5
Peuckmann-Post, V.	P16-12	Rabenhorst, A.	OS01-9

AUTHORS' INDEX

Schmelting, B.	S07-5	Schwab, A.	P20-05, P18-03 P18-01, P04-06 OS13-3, OS03-3
Schmidt, A.	P05-10, OS10-4	Schwabe, T.	P16-09, P16-07
Schmidt, H.	P08-08, P08-06 P06-06, P01-14	Schwanke, K.	P22-01, OS07-4
Schmidt, J.	P18-12	Schwarz, A.	OS01-10
Schmidt, K.	OS12-6, OS06-5	Schwarz, M.	OS09-5
Schmidt, T.	OS07-7	Schwarz, S.	P02-13
Schmitt, J.	P12-02	Schweda, F.	OS05-7, OS05-4
Schmitt, K. J. K.	P10-03	Schweinitz, A.	P16-08, P16-06
Schmitt, L. - I.	P01-11, P01-10 P01-07	Schwenk, J.	OS04-7, OS04-1
Schmitt, R.	P09-03	Schwerdt, G.	P17-14
Schneider, A.	OS04-7	Schwoerer, A.	P22-08
Schneider, F.	P14-07	Sciesielski, L. K.	OS02-8
Schneider, G.	P02-10	Sczodrok, J.	P17-15
Schneider, J.	P15-06, W01-4	Seddar, L.	P03-05
Schneider, M.	P05-12	Seebach, J.	OS12-8
Schneider, T.	P05-03, P02-08	Seeger, W.	P05-08
Schnittler, H. - J.	P21-05, OS12-8 OS12-3, OS06-3	Seeliger, E.	P07-11, P07-10
Schnitzbauer, U.	P07-12	Seger, C.	OS03-6
Schoenenberger, P.	S05-4	Seifert, G.	P03-05
Scholz, C.	P19-09, OS08-1 OS02-3	Selescu, T.	P05-09, P01-12
Scholz, H.	P19-01, OS09-6 OS02-8	Seniuk, A.	P07-07
Scholz, N.	P14-14, P14-05 P14-02, P01-05	Sergeeva, O. A.	P13-09, P02-07
Schönenberger, D.	OS05-2	Seuwen, K.	OS13-8
Schrader, J.	OS07-7	Shaaban, A.	P01-02
Schreckenber, R.	P12-08	Shah, A.	OS02-1
Schreiber, R.	OS03-7	Shahin, V.	P20-05, P03-01 OS13-7
Schreiber, T.	P19-06, P19-05	Sharifi, M.	P01-04
Schreier, B.	P12-11, P12-10 OS01-5	Shin, J.	P02-05
Schrenk-Siemens, K.	S11-2	Shuvaev, A.	P03-08
Schrickel, J. W.	OS07-1	Siegler, D.	P10-07
Schröder, K.	P09-11, P09-09 P09-06, OS08-5	Siemens, J.	S11-2
Schröder, R.	OS08-7, OS01-6	Signoretto, E.	P10-09
Schroeter, M. M.	P20-12, OS01-4 OS01-1	Sigurdsson, T.	P02-02
Schröter, R.	OS13-2	Sihn, G.	OS05-6
Schubert, R.	P04-05, OS01-2	Simon, P.	P20-14
Schuh, K.	P12-09, P12-06 P11-02, OS04-4	Simrick, S. L.	OS03-1
Schulte, U.	OS04-7 OS04-1	Sindic, A.	P21-03
Schulte-Mecklenbeck, P.	P03-06	Singewald, N.	P01-05
Schulz, F.	P04-04	Sirén, A. - L.	P01-04, OS11-7 OS04-8, OS04-2
Schulz, K.	P14-09	Sirianant, L.	OS03-7
Schulz, M. - C.	P18-08	Siwek, M.	OS11-1
Schulz, R.	P22-12, P09-05 OS07-6, OS06-1	Skalweit, A.	P07-10
Schulze-Bahr, E.	OS03-1	Smolina, N.	OS07-5
Schumacher, J.	P04-05	Snutch, T. P.	P02-08
Schumacher, M.	P05-12	Solimena, M.	S09-5
Schutzkowski, M.	P08-10	Song, J.	P15-09
Schütz, A.	P19-11	Song, K.	S11-2
		Soos, J.	OS11-1
		Speckmann, E. - J.	P13-07
		Spielmann, P.	P19-09, OS08-1
		Spiranec, K.	P21-03
		Sponder, G.	OS03-4
		Staar, D.	P17-15
		Staffel, J.	OS05-7, OS05-4

AUTHORS' INDEX

Rackwitz, R.	P21-11	Rong, W. W.	P11-08
Radeke, H. H.	P09-09	Roos, M.	P07-08
Radloff, J.	P08-07	Rosendahl, J.	P06-03
Radsak, M.	P20-14	Rosner, J.	P03-12, OS13-4 S11-3
Raj-Ginde, V.	OS11-1	Rossi, A.	OS08-4
Rajski, M.	OS05-2	Rosso, G.	P03-01, OS13-7
Ramm, F.	OS04-5	Rostock, C.	S11-2
Ramos-Espinosa, G.	OS12-5	Rotermund, N.	P14-09, P14-08 OS09-3
Randi, E.	OS08-3	Rother, F.	P19-11
Rappl, S.	P08-02	Rudakova, E.	P05-02
Rassaf, T.	P22-10	Rudigier, L. J.	OS02-8
Raßler, B.	P20-06	Ruhs, S.	P08-10
Rauh, R.	OS10-5	Rupf, B.	P07-02
Raupach, A.	P12-12, P12-05	Rustenbeck, L.	P11-09
Rausser, B.	P02-03	Rybalchenko, O. V.	P08-09
Rebelo, M.	P12-08	S	
Reeh, P.	OS09-8	Sacherer, M.	OS06-8
Reeps, C.	PS02-4	Sachidanandan, D.	P14-01
Reglin, B.	P11-08	Sachinidis, A.	P20-10
Rehder, K.	P05-04	Sah, A.	PS01-5
Reichenspurner, H.	P22-08	Sahin, S.	P22-10
Reichert, U.	S07-4	Sahlín, K.	S06-1
Reichhart, N.	P06-05	Sahre, T.	P11-01
Reichmann, V.	P19-15, OS02-2	Salmina, A.	P03-08
Reichold, M.	P09-03	Santambrogio, S.	OS08-1, OS02-6
Reifenberger, G.	P10-12	Santangelo, F.	OS08-8
Reime, S.	P08-13	Santos-Carballal, B.	P06-08
Reimers, C.	OS10-2	Sárközy, M.	OS07-6
Renigunta, V.	P04-11	Sasse, P.	P22-04, W01-1
Reska, A.	P16-03, P02-04	Sauer, J. - F.	OS09-2
Rettig, J.	P01-06	Sauer, M.	P01-04, OS11-7 OS04-8, OS04-2
Rettig, R.	P11-07, OS05-1	Sauer, S.	OS09-8
Reuter, S.	P07-02	Schaarschmidt, F.	P04-14
Rezende, F.	P09-11	Schadzek, P.	P04-15, P04-14
Rheinstadter, M.	OS10-4	Schaible, H. - G.	P13-05, OS09-4
Richter, C.	P22-06	Scheller, J.	P12-02
Richter, F.	P13-05	Schempp, R.	P08-01
Richter, K.	P05-14	Schermuly, R. T.	P05-08
Rieck, S.	OS12-7	Schewe, M.	P04-04
Riedemann, T.	P14-12	Schiemann, J.	OS09-1
Riemann, A.	P08-13	Schierle, K.	P20-06
Riffkin, H.	P09-01, OS02-5	Schiffelholz, T.	P15-03, S05-2
Rimmbach, C.	OS07-8	Schillers, H.	P18-13
Rinné, S.	OS03-1	Schimmelpfennig, S.	P05-07
Ritter, M.	P10-08, P03-03	Schindler, R. F. R.	OS03-1
Rivas-Pardo, J. A.	OS01-8	Schirmeyer, J.	P16-08, P16-07
Roberts, R.	OS08-7	Schlatter, E.	P06-11, OS13-2
Rodriguez, J.	P19-09	Schlingmann, B.	P04-14
Roeper, J.	P02-10, P02-09 P02-06, P02-05 P02-02	Schloss, P.	P03-12
Rogalski, M.	P20-01	Schlüter, K. - D.	P12-08, S07-2
Rogier, G.	OS05-2	Schmachtenberg, O.	P14-10
Rohde, M.	P13-03	Schmalzing, G.	P05-13, P05-12 P05-11
Röhr, D.	P03-01	Schmauder, R.	P16-09, P16-06
Rohrbach, S.	P12-08, P11-11 P10-07, P09-05	Schmeier-Jürchott, A.	P20-14
Röll, W.	OS12-7		

AUTHORS' INDEX

Stainier, D. Y. R.	OS08-4	Taylor, C. T.	P19-09
Stallmeyer, B.	OS03-1	Tchaptchet, A.	P22-09
Stampnik, Y.	P08-14	Tegtmeier, M.	P04-04
Steck, J.	P11-13	Terörde, K.	P14-06
Steckel, B.	OS07-7	Terwitte, L.	P09-08
Stefanie, U.	OS12-5	Tesky, V.	P02-13
Stegbauer, J.	P20-08, P12-04 OS06-7	Tevoufouet, E.	P05-03
Steglich, A.	P07-09, P07-03	Thal, S.	P13-04
Stehle, R.	OS07-5, OS07-3	Thallmair, V.	P10-04, OS03-8
Steinbüchel, M.	P06-11	Thatenhorst, D.	P10-05
Steinemann, G.	P18-12, P10-14	Theparambil, S. M.	P18-09
Steinhäuser, C.	P03-05	Thews, O.	P08-13
Steinhoff, G.	P22-02	Thieleczek, R.	P22-05
Steinlechner, S.	P19-14	Thielmann, A.	P20-13
Sternberg, V.	P10-10	Thomale, J.	P01-07
Serner, C.	P04-09	Thompson, K.	P08-06
Steubl, D.	P07-08	Thoms, J.	P03-13
Stevanović, S.	OS10-2	Thomsen, J.	P17-12
Sticht, H.	OS10-3	Thon, S.	P16-06
Stieber, J.	OS07-8	Thorn-Seshold, O.	W01-3
Stigloher, C.	P01-05	Thull, S.	P16-13
Stiller, D.	P20-07	Tian, Y.	P16-03, OS10-2
Stingl, H.	P21-02, OS06-4	Tiburcy, M.	OS06-6
Stock, C.	P18-03, P18-02 P18-01, OS13-3	Toblli, J.	P12-07
Stöckigt, F.	OS07-1	Todorov, V.	P07-09, P07-03 P07-01
Stolz, M.	P05-12, P05-11	Tomaschitz, A.	OS06-8, OS06-5
Strätz, N.	P08-10	Tomita, S.	OS11-2
Straub, I.	OS11-8	Toonen, R.	S09-1
Strauß, O.	P06-05	Tort, A. B. L.	P15-08
Striessnig, J.	P02-08, PS01-5	Trauner, D.	W01-3
Strodtzoff, C.	P05-07	Treede, R. - D.	P03-12, P01-09
Strüber, M.	P15-02	Tresguerres, M.	P17-12
Stubbe, J.	S04-5	Tripathi, S.	OS07-2
Stumpff, F.	P22-09, P06-03 OS03-4	Trogisch, F. A.	P12-01
Stumpp, M.	OS13-6	Tronnier, V.	P10-10, P03-13
Sturmheit, T.	P10-01, P03-11	Trunschke, O.	P20-12, OS01-1
Subramaniam, M.	P02-10, P02-05	Tsachaki, M.	OS08-3
Suhr, F.	P22-11	Tscherpel, C.	P07-04
Sumser, M.	W01-3	Tschöp, M. H.	PL-02
Sundberg, C. J.	S06-2	Tseng, Y. - C.	OS13-6
Sunkara, M. R.	P16-05	Tuffaha, R.	OS06-5
Sutor, B.	P14-12	Tug, S.	P20-14
Svenningsen, P.	S04-5, S02-3	Tuluc, P.	PS01-5
Swain, L.	OS02-4, OS02-1 S08-4, PS02-11	Tumurkhuu, M.	P10-08
Szijártó, I. A.	S10-3	Turnquist, B.	OS09-4
T		U	
Tafreshian, K.	P18-12	Üçeyler, N.	OS04-4
Taha, M.	OS12-8, OS12-3	Ullmann, D.	P02-11
Tahir, S.	OS06-2	Ullrich, M.	P12-09, OS04-4
Tambutté, E.	P21-12	Ullrich, N. D.	P22-03
Tambutté, S.	P21-12	Unger, A.	P12-09
Taubner, I.	P21-12	Unger, C.	P13-03
Tauscher, S.	P18-05	Untiet, V.	P03-09
Tavakoli, S.	P08-02	Urban-Ciecko, J.	S05-7
		Ur-Rehman, H.	P06-03
		Utesch, T.	P13-10

AUTHORS' INDEX

Utikal, J.	P03-12	Warth, R.	P04-09, P04-08 S04-1
Uysal, O.	P17-03	Watnick, T.	OS03-6
V		Weber, M.	OS04-4
Valletta, D.	OS05-7, OS05-4	Weber, N.	P22-01, OS07-4
van der Veldt, S.	OS04-5	Weber, T.	P18-09
van Hove, T. D.	P13-07	Weber, W. - M.	P06-08
Varga, Z.	OS07-6, OS02-6	Wehke, S.	P20-07
Varghese, E.	P10-11	Weiergräber, M.	P13-03, OS11-1
Vasudevan, P.	OS07-8	Weise, A.	OS11-3
Veelken, C.	P18-01	Weiß, C.	P19-04
Veith, C.	P05-08	Weißmann, N.	P09-11, P05-08
Vennekens, R.	S03-4	Wende, H.	S11-2
Vida, I.	S05-3, P15-09	Wendland, M.	P22-01, OS07-4
Viereck, R.	OS06-8	Wenger, R. H.	P19-09, OS08-3 OS08-1, OS05-2 OS02-6, OS02-3, PL-03
Vishnevskaya, O. N.	P08-09	Wenzel, D.	OS12-7, OS08-7, PS02-7
Vitavska, O.	P17-07	Werner, F.	P12-06, P11-02, OS01-9
Vitzthum, H.	P07-07	Weßlau, K.	P13-02
Voelkl, J.	P11-14, OS06-8 OS06-5	Wettwer, E.	P22-05
Voets, T.	PS01-3	Wichmann, L.	P16-02
Vogel, J.	P09-09	Wieczorek, H.	P17-07
Vogel, L.	P17-15	Wiegert, S.	P15-04
Vogler, M.	P19-08	Wieland, T.	PS02-5
Vogt, L.	P02-13	Wiemuth, D.	P16-04, P05-10 OS10-8, OS10-4
Voigt, N.	W01-2	Wies, A.	OS07-5
Volk, T.	P05-02	Wiesner, J.	P09-03
Völker, K.	P18-05, P12-06 P11-02, OS01-9	Wiesner, R. J.	OS07-1
Völkner, C.	P22-02	Wiggers, R.	P10-06
Vollert, H.	P18-06	Wilhelmi, M.	OS10-7
Völlger, L.	S08-2	Wilke, B.	P04-01
von Engelhardt, J.	W01-5	Winandy, S.	P14-08
von Fallois, M.	P19-12	Windler, R.	OS12-1
von Gall, F.	P09-09	Winkelmann, V. E.	P08-08, P08-05 P08-03, P08-02
von Kleist-Retzow, J. - C.	OS07-1	Winkler, F.	OS12-7
von Köckritz-Blickwede, M.	S08-2	Winner, B.	P16-11
von Kriegsheim, A.	P19-09	Winning, S.	P19-03, OS02-2
Vowinkel, K.	P16-01	Wittekindt, O. H.	P08-08, P08-06 P06-06
W		Wittig, I.	P09-13, P09-10 P09-07
Wabnitz, H.	P07-11	Wohlfahrt, P.	P04-05
Wadiche, J. I.	OS11-2	Wohlfarth, F.	P22-07
Wagner, A. H.	P08-15, OS06-2 PS02-3	Wolf, A.	OS02-5
Wagner, C.	P18-11, P17-09 P17-01, P07-13 P07-12, P07-08, P06-09 OS13-8, OS13-1, OS06-8 OS05-6, OS05-2	Wolfart, J.	P04-07
Wagner, E.	P20-14	Wrede, C.	P22-01
Wagner, M.	P05-02	Wu, B.	P09-04
Waiczies, S.	P07-10	Wulff, P.	P15-03, S05-2
Wälte, M.	P04-06	Wulfmeyer, V. C.	P17-11, OS05-5
Walter, A. M.	P20-10	Wuntke, V.	P15-13
Walter, M.	P09-11, P09-06	Würfel, A.	OS07-6
Walz, G.	OS03-6	Würtz, C.	OS06-6
Wanitchakool, P.	OS03-7	Wußling, H.	P08-13
Wanka, H.	P17-15	X	
Wardzinski, E. K.	P18-06, P02-12 P02-11, OS09-7	Xiang, W.	P11-08

Y	
Yamasaki, T.	OS11-2
Yanez, A.	P15-05, OS11-5
Yanovsky, Y.	P15-08
Yasar, F.	P08-11
Ydegaard, R.	S04-5
Young, P.	P03-01
Yu, H.	OS11-2
Z	
Zachar, R.	S02-3
Zakrzewicz, A.	P05-14
Zatschler, B.	P12-03, P11-05
Zavaritskaya, O.	OS01-2
Zechel, C.	P10-10, P03-13
Zehnlé, H.	P03-13
Zhong, W.	P14-03
Zieseniss, A.	P19-08
Zimmermann, F.	P21-10
Zimmermann, H. - W.	P22-05
Zimmermann, T.	P20-14
Zimmermann, W. H.	OS06-6
Zink, P.	P07-06
Zipfel, N.	P05-13
Zippel, N.	P09-13, OS06-4
Zobel, K.	P02-04
Zolles, G.	OS04-1
Zsurka, G.	OS07-1
Zukunft, S.	P09-11
Zumhagen, S.	OS03-1
Zweigerdt, R.	P22-01, OS07-4
Zygmunt, P.	OS09-8



SAVE THE DATE

GREIFSWALD
MARCH 16–18, 2017

Dear colleagues,

It is with great pleasure that I invite you to the 96th Annual Meeting of the **Deutsche Physiologische Gesellschaft**, which is to be held in Greifswald from 16 to 18 March 2017.

The venue of the conference will be at the brand new Lecture Hall Building at the Friedrich-Löffler-Strasse campus in the city center. Following a long-standing tradition, there will be symposia and plenary lectures as well as free oral and poster sessions dedicated to the latest developments in modern physiology. Special care will be taken to provide many opportunities for scientists to present and discuss their most recent work. Furthermore, as with previous meetings, the **Junge Physiologen** will be involved in the organization of the conference.

Even though it is one of the oldest universities in Germany, the University of Greifswald, which was founded in 1456, has never before hosted a meeting of the **Deutsche Physiologische Gesellschaft**. Almost 150 years after the first director of the Institute of Physiology in Greifswald, Leonard Landois, published his well-received **Lehrbuch der Physiologie**, one of the earliest textbooks of physiology in

German, we take special pride in finally calling upon the German physiologic community to gather in our city.

The Hansestadt Greifswald is the smallest German city that calls itself home to a full university with all traditional academic disciplines, including medicine, theology, law, philosophy and natural sciences. The university and its diverse student body tend to animate and stimulate the life of the city. Besides the purely academic aspects of our meeting, you may also want to enjoy the romantic paintings of Caspar David Friedrich at the Pommersche Landesmuseum, learn how the sun creates energy at the experimental nuclear fusion plant Wendelstein 7X or dive into the maritime atmosphere of the nearby fishing village Wieck.

For further information about the 96th Annual Meeting including early registration and abstract submission, please visit the DPG website in spring 2016.

Looking forward to welcoming you in Greifswald,

Rainer Rettig

President of the 96th Annual Meeting of the Deutsche Physiologische Gesellschaft



www.dpg2016.de