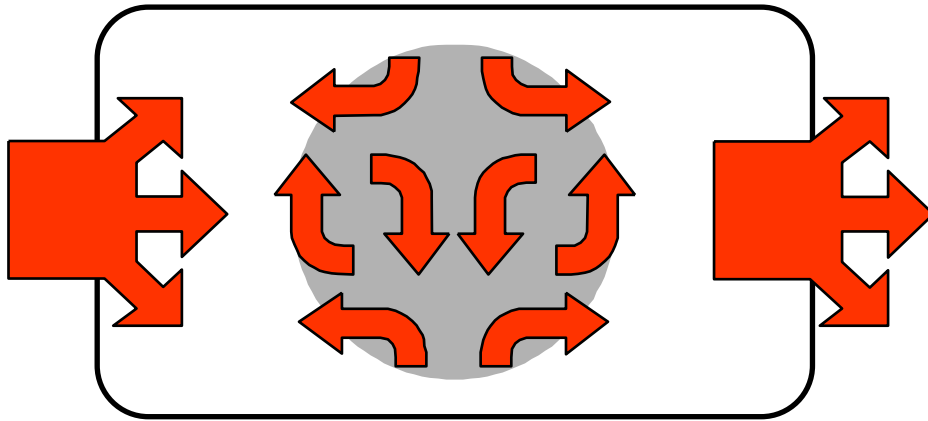


Signal Transduction Society (STS)



22nd Joint Meeting

Signal Transduction Receptors, Mediators and Genes

**Leonardo Hotel Weimar
November 5-7, 2018**

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Dear Colleagues,

It is our pleasure to welcome you to the 22nd Joint Meeting “Signal Transduction - Receptors, Mediators and Genes” in Weimar. We will celebrate the **20th Anniversary of our Society** with a performance by the “Theater im Gewölbe” (Weimar) presenting “Goethes Glanz und Schillers Glorie” on Monday evening.

With this Joint Meeting, scientists from Germany and abroad will gather in Weimar to explore and discuss new aspects of the entire spectrum of signal transduction in focused symposia presenting state-of-the-art science and to look back on the development of the society. The meeting with its focus theme ‘**Signaling: From Past to Future**’ is jointly organized by the STS in association with our partners, the German Societies for Immunology (DGfI), Cell Biology (DGZ), Pharmacology (DGP) and the Society for Biochemistry and Molecular Biology (GBM) as well as the German Society for Hygiene and Microbiology (DGHM) and the SFB 854 „Molekulare Organisation der zellulären Kommunikation im Immunsystem“ (Magdeburg). This year, we welcome for the first time the **Junior Groups** of the German Societies of Pharmacology (Forum Junge Wissenschaft, DGP), Physiology (Junge Physiologen, DPG), and Immunology (DGfI Young Immunologists) as co-organizers of the meeting.

Invited experts will open each workshop with an introductory keynote talk. All other oral presentations are selected from the submitted scientific contributions. We would like to draw your attention especially to the young scientists who will present their work as posters or selected short talks. The two poster sessions, opened by the traditional “one-minute - one-transparency” presentations, provide opportunity to all participants to introduce their work to the plenum.

Please also consider submitting your work to the “International Journal of Molecular Sciences” (IJMS) published by MDPI (Basel, CH). We invite the submission of original research articles as well as reviews, commentaries or perspectives that cover aspects of signal transduction, **From Past to Future**.

With this issue, we hope to make visible the many different facets of research that the members of our society work on and to highlight the importance of signal transduction:

<https://www.sigtrans.de/special.html>

We are pleased to announce that the STS Honorary Medal, supported by “IJMS”, will be given to Prof. Karen Vousden (Francis Crick Institute, London, UK). With this award, the STS acknowledges her pioneering work on the signaling of p53 in health and disease.

Our particular thanks go to the industrial sponsors of the STS Meeting 2018. Without their financial support, it would not be possible to keep the conference fees at this moderate level. We therefore strongly encourage all participants to visit the sponsors’ exhibition, to participate in the ‘Crosstalk Puzzle’ and to attend the informative plenary talks by our industrial partners. We especially acknowledge the support by Omni Life Science who generously co-sponsors the STS Science Award, the GBM for sponsoring the GBM Innovation Award for Young Scientists and our ‘Silver Sponsor’ Biomol for funding a Travel Grant. Please note that the ‘Crosstalk Puzzle’ raffle will be part of the dinner on Tuesday evening. All prizes, stipends and awards can only be received in person

The **General Assembly** of the Signal Transduction Society will take place on Monday, November 5th, 2018 at 2:00 p.m. All members of the STS are cordially invited to discuss the present and future of the Society. Those of you who want to join the STS will be able to do so by registering online at <http://www.sigtrans.de>.

We are confident that the STS Meeting will again offer numerous opportunities for successful and inspiring discussions, new co-operations and joint projects.

We wish all participants, speakers and presenters a very pleasant stay in Weimar and an enjoyable, stimulating and productive Signal Transduction Meeting.

Katharina Hieke-Kubatzky, Ingo Schmitz,
Klaudia Giehl, Detlef Neumann

General Information

Venue and date

Leonardo Hotel Weimar, Belvederer Allee 25, 99425 Weimar, Tel. 03643 7220
November 5-7, 2018

Location

Lectures will be held in the Goethe Hall. Poster presentation and sponsors' exhibition take place in the Goethe Foyer and in the Belvedere Hall. The theater play will be performed in the Goethe Hall.

Conference website

<https://sigtrans.de/meeting.html>

STS registration desk

The registration desk is located in the Goethe Foyer. The opening hours are:

Monday, Nov. 5	08:00h – 18:00h
Tuesday, Nov. 6	08:30h – 18:00h
Wednesday, Nov. 7	08:30h – 13:00h

Name badge, certificate of attendance and payment receipt

Your personal name badge, certificate of attendance and payment receipt will be handed over with your congress package upon on-site registration.

Please, wear your name badge during the entire meeting. It serves as 'passport' for all scientific sessions and to get access to the restaurant for lunches and dinners. In order to reduce unnecessary waste, return the holders at the registration desk when you leave the meeting.

Registration fees 2018

Full Meeting (on-site only, cash payment only)

<i>STS Members</i>		<i>Non-Members</i>	
Student	EUR 250	Student	EUR 325
Academic Participant	EUR 300	Academic Participant	EUR 375
		Non-Academic Participant	EUR 450
		Sponsor (addtl. Representative)	EUR 300

Day passes (on-site only, cash payment only)

<i>STS Members</i>		<i>Non-Members</i>	
Student	EUR 100	Student	EUR 150
Academic Participant	EUR 150	Academic Participant	EUR 200
		Non-Academic Participant	EUR 250
		Sponsor (addtl. Representative)	EUR 200

Conference language

The conference language is English.

WIFI

WIFI, provided by the Leonardo Hotel, with unlimited data volume is available for free throughout the hotel building.

Lunch and dinner

Lunch and dinner buffets (Nov. 5 and 6, 2018) and a lunch snack (Nov. 7, 2018) will be served at the Leonardo restaurant and are included in the meeting fee. At lunch, one soft drink per person is free of charge. All additional beverages including those ordered in the evening at dinner have to be paid individually. Please do not forget to contact the hotel staff before you leave the restaurant.

Awards and prizes

The STS Science Award, the GBM Innovation Award for Young Scientists as well as the poster prizes will be handed over on Wednesday, Nov. 7, 2018 at the end of the meeting (12:45 h). Awards and prizes have to be accepted personally; otherwise they will not be issued.

Taxi

In case you need transportation, please contact the Leonardo's reception desk in the hotel lobby.

General terms and conditions

Please find our general terms and conditions at www.sigtrans.de/meeting.html

Time Table

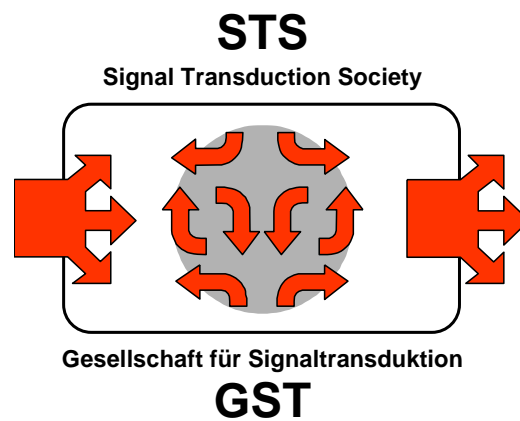
Monday, November 5, 2018	
08:00	Registration / Poster Mounting / Gathering
08:45	Welcome Note
09:00	Workshop A Growth Factors, Cytokines and their Receptors
10:30	Coffee Break / Sponsors' Exhibition
11:00	Workshop B Differentiation, Stress and Death
12:45	Lunch Break/ Sponsors' Exhibition
14:00	General Assembly of the STS / Sponsors' Exhibition / Poster Preview
15:30	Coffee Break / Sponsors' Exhibition
16:00	Workshop C Infection and Inflammation
17:30	Short break
17:45	Poster Presentation I PA1 – PD2
	'One Minute – One Transparency'
18:15	Poster Discussion / Sponsors' Exhibition / Beverages and Snacks
20:00	Dinner
21:00	Theater Play "Goethes Glanz und Schillers Glorie"

Tuesday, November 6, 2018

09:00	Workshop D	G Proteins and G Protein-coupled Receptors
10:30	Coffee Break / Sponsors' Exhibition	
11:00	Workshop E	Neuronal Signaling and Ion Channels
12:30	Lunch Break / Sponsors' Exhibition	
13:30	Poster Presentation II	PD3 – PI5
	'One Minute - One Transparency'	
14:00	Poster Discussion / Sponsors' Exhibition / Coffee	
16:00	Workshop F	Immune Cell Signaling I
17:45	Short Break	
18:00	STS Honorary Medal Award Ceremony	
19:45	Short Break	
20:00	Dinner and Crosstalk Puzzle Raffle	

Wednesday, November 7, 2018

09:00	Workshop G	Tumor Cell Biology
10:30	Coffee Break / Sponsors' Exhibition	
11:00	Workshop H	Immune Cell Signaling II
12:30	STS Science Award, GBM Innovation Award and Poster Prizes	
13:00	Lunch Snack	
15:00	End of Meeting	



22nd Joint Meeting

**Signal Transduction:
Receptors, Mediators and Genes**

Leonardo Hotel Weimar

November 5-7, 2018

Organizers:	Katharina Hieke-Kubatzky, Heidelberg Klaudia Giehl, Gießen Ingo Schmitz, Braunschweig Detlef Neumann, Hannover
Program Committee:	Klaudia Giehl, Gießen Katharina Hieke-Kubatzky, Heidelberg Marcus Lettau, Kiel Detlef Neumann, Hannover Ingo Schmitz, Braunschweig Workshop Chairpeople
Grant Committee:	Klaudia Giehl, Gießen STS-Council
Program Booklet:	Annette Stanke, Hannover Cornelius Bartke, Berlin
Webmaster:	Cornelius Bartke, Berlin
STS Office:	Annette Stanke, Hannover

The 22nd Joint Meeting 'Signal Transduction - Receptors, Mediators and Genes' is cooperatively organized by the STS with study groups of several societies and other consortia which also financially contributed to the Joint Meeting.



The organizers are very grateful to the STS Advisory Board members, all consortia and companies supporting the STS Meeting 2018. Without their constant support and contributions, the Signal Transduction Meeting series would not have been possible. We strongly encourage all participants to meet the representatives at their booths.

Sponsors of the STS Meeting 2018 are:

7Bioscience GmbH	Merck Chemicals GmbH
Biomol GmbH	OLS OMNI Life Science GmbH & Co. KG
BioTek Instruments, Inc.	PerkinElmer LAS Germany GmbH
Biozol Diagnostica Vertrieb GmbH	Promega GmbH
Cell Signaling Technology Europe B.V.	Sarstedt AG & Co. KG
Cisbio Bioassays	SERVA Electrophoresis GmbH
Gilson International B.V. Deutschland	Sysmex Deutschland GmbH
HiSS Diagnostics GmbH	tebu-bio GmbH
Horizon Discovery Group plc	VectorBuilder, Inc

The '**SILVER SPONSOR**'
donates additional travel support for young scientists.

Each year, the STS provides travel grants to young fellows to attend the meeting and present their data to the public, and honors the best poster contributions. The STS council is very grateful to this year's Meeting '**SILVER SPONSOR**' who contributes to the travel stipends.

The 2018 '**SILVER SPONSOR**' is:



08:00h Registration

08:45h Welcome Note

Workshop A

Growth factors, Cytokines and their Receptors

Monday, 05.11.2018
09:00 – 10:30h

Chair: Antje Ebert, Göttingen
Karlheinz Friedrich, Jena

09:00h

A1 **Keynote:**
Not your average kinases: moonlighting functions of ERK pathway components
Baccarini M.
Vienna/Austria

09:30h

A2 **Novel mechanistic insights into Raf signalling by studying non-V600 BRAF alterations**
Weinberg F., Jansen J., Braun S., Fröhlich M., Iconomou M., Röring M., Fritsch R., Heining C., Neumann O., Stenzinger A., von Bubnoff N., Fröhling S., Brummer T.
Freiburg/Germany

09:45h

A3 **Hidden twins: SorCS neuroreceptors form stable dimers**
Januliene D., Manavalan A.R., Ovesen P.E., Pedersen K.A., Thirup S.O., Nykjær A.N., Moeller A.
Frankfurt/Germany

10:00h

A4 **Modulation of the IL-6 signaling pathway in liver cells by miRNAs targeting gp130, JAK1 and/or STAT3**
Servais F.A., Kirchmeyer M., Hamdorf M., Rose-John S., Kreis S., Haan C., Behrmann I.
Belvaux/Luxembourg

10:15h

A5 **Presentation by tebu-bio**
SiR probes – a simple way to decipher living cells and tissues
Ohmer R., Samazan F.
Offenbach/Germany

10:30h Coffee Break / Sponsors' Exhibition

Workshop B

Differentiation, Stress and Death

Monday, 05.11.2018
11:00 – 12:45h

Chair: Ingo Schmitz, Braunschweig
Iris Behrmann, Belvaux (Luxembourg)

11:00h

B1 **Keynote:**
RIP kinase signalling in cell death and inflammation
Pasparakis M.
Köln/Germany

11:30h

B2 **Molecular signaling in inherited cardiomyopathy analyzed with a human model of CRISPR/Cas9-corrected iPSC-derived cardiac cells**
Dai Y.Y., Malkovskiy A.V., Ebert A.D.
Göttingen/Germany

11:45h

B3 **Protein-protein interactions within the ULK1 complex: what is required for autophagy induction?**
Wallot-Hieke N., Verma N., Schlütermann D., Berleth N., Deitersen J., Böhler P., Stuhldreier F., Wu W., Seggewiß S., Peter C., Mendiburo M., Gohlke H., Mizushima N., Stork B.
Düsseldorf/Germany

12:00h

B4 **A signalling phospho-switch that regulates autophagosome formation**
Pengo N., Agrotis A., Ketteler R.
London/United Kingdom

12:15h

B5 **The mycotoxin phomoxanthone A induces apoptosis by disrupting the form and function of the inner mitochondrial membrane**
Böhler P., Stuhldreier F., Anand R., Kondadi A.K., Schlütermann D., Deitersen J., Frank M., Niemann H., Luyten T., Parys J.B., Reichert A.S., García-Sáez A.J., Proksch P., Stork B., Wesselborg S.
Düsseldorf/Germany

12:30h

B6 **Presentation by Promega**
CRISPR & HiBiT Protein Tag – A perfect team to investigate endogenous protein biology
Bonke E.
Mannheim/Germany

12:45h Lunch Break / Sponsors' Exhibition

14:00h STS General Assembly / Sponsors' Exhibition / Poster Preview

15:30h Coffee Break / Sponsors' Exhibition

Workshop C

Infection and Inflammation

Monday, 05.11.2018
16:00 – 17:30h

Chair: Arnd Kieser, München
Norbert Reiling, Borstel

16:00h

C1 **Keynote:**
Targeting cellular signaling pathways to fight the flu
Ludwig S.
Münster/Germany

16:30h

C2 **The hepatitis C virus modifies CXC chemokine expression induced by the inflammatory cytokines TNF α and IL-1 β**
Rufinatscha K., Groepper C., Schroeder N., Stindt S., Ehltling C., Bartenschlager R., Häussinger D., Bode J.G.
Düsseldorf/Germany

16:45h

C3 **Palmitoylation - Emerging roles in TNF-R1 endocytic trafficking and signaling**
Zingler P., Särchen V., Glatter T., Caning L., Schütze S., Fritsch J.
Kiel/Germany

17:00h

C4 **Designer polysulfates as modulators for NF- κ B dependent inflammation**
Silberreis K., Dervedde J., Haag R.
Berlin/Germany

17:15h

C5 **Presentation by Cisbio Bioassays**
Accelerating research: mapping of intracellular mechanisms using HTRF technology
Weber J.
Codolet/France

17:30h Short Break

17:45h **Poster Presentation I** Posters PA1 – PD2
"one minute – one transparency"
Chair: Marcus Lettau, Kiel

18:15h Poster Discussion / Sponsors' Exhibition / Beverages and Snacks

20:00h Dinner

21:00h Guest Performance: „Goethes Glanz und Schillers Glorie“ (in German), presented by the local theater „Theater im Gewölbe“

Workshop D

G Proteins and G Protein-coupled Receptors

Tuesday, 06.11.2018
09:00 – 10:30h

Chair: Michael Kauk, Jena
Theopisti Maimari, Dortmund

09:00h

D1 Directed evolution of G protein-coupled receptors for structural studies and drug development

Klenk C., Ehrenmann J., Schöppe J., Rappas M., Dore A., Kummer L., Schütz M., Plückthun A.
Zürich/Switzerland

09:20h

D2 Muscarinic acetylcholine receptors: Does the aromatic lid serve as gatekeeper towards subtype selectivity?

Kauk M., Bermudez M., Volpato D., Schaller D., Yurdagül-Hemrich N., Zabel U., Wolber G., Hoffmann C.
Jena/Germany

09:40h

D3 Enhanced opioid analgesia and loss of tolerance but exacerbation of side effects in mice expressing phosphorylation-deficient, G protein-biased μ -receptors

Kliwer A., Schulz S.
Jena/Germany

10:00h

D4 Dual signalling, cis and trans, of the adhesion GPCR latrophilin

Winkler J., Matus D., Fiedler F., Müller A., Schnabel R., Thor D., Schöneberg T., Prömel S.
Leipzig/Germany

10:15h

D5 Lysophosphatidylinositol/GPR55 axis regulates osteoclast differentiation

Mangini M., Fonderico J., Mosca M.G., Fulle S., Mariggio S.
Naples/Italy

10:30h Coffee Break / Sponsors' Exhibition

Workshop E

Neuronal Signaling and Ion channels

Tuesday, 06.11.2018
11:00 – 12:30h

Chair: Jan-Philipp Machtens, Jülich

11:00h

E1 Neuronal signaling and ion channels

Machtens J.-P.
Jülich/Germany

11:15h

E2 Functional role of chloride/proton exchangers CIC-3 and CIC-5 in exocytosis of large dense core vesicles in chromaffin cells

Comini M., Sierra J.D., Yarzagaray A., Guzman G., Graf V., Willuweit A., Hidalgo P., Fahlke C., Guzman R.
Oxford/United Kingdom

11:35h

E3 The role of Nav1.7 in human nociceptors: insights from human iPS cell-derived sensory neurons of erythromelalgia patients

Meents J.E.
Aachen/Germany

11:55h

E4 Evaluation of the selectivity and the zinc inhibition mechanism of voltage-gated proton channel

Chaves, G.
Nürnberg/Germany

12:15h

E5 *Presentation by VectorBuilder*

VectorBuilder: A revolutionary platform for vector design, custom cloning and virus packaging

Mirus J.
Neu-Isenburg/Germany

12:30h Lunch Break / Sponsors' Exhibition

13:30h **Poster Presentation II Posters PD3 – PI5**

"one minute – one transparency"
Chair: Bastian Schirmer

14:00h Poster Discussion / Sponsors' Exhibition / Coffee Break

Workshop F
Immune Cell Signaling I

Tuesday, 06.11.2018
16:00 – 17:45h

Chair: Musga Qureischi, Würzburg
Luca Simeoni, Magdeburg

16:00h

F1 **Keynote:**
STIM1 and STIM2 control the effector differentiation of regulatory T cells
Väth M., Eckstein M., Yang J., Lacruz R., Silverman G., Kannan K., Feske S.
Würzburg/Germany

16:30h

F2 **NFAT proteins are essential for thymic selection processes**
Chiarolla C.M., König A., Berberich-Siebelt F.
Würzburg/Germany

16:45h

F3 **A highly conserved tyrosine residue within the SH2 domain of Lck regulates T-cell development and activation**
Kästle M., Simeoni L., Schraven B.
Magdeburg/Germany

17:00h

F4 **Vitamin C promotes the proliferation and the effector functions of V δ 2 T cells**
Kouakanou L., Peters C., Kabelitz D.
Kiel/Germany

17:15h

F5 **cROSSover: Regulation of metabolic responses in B and T cells**
Grusdat M.G., Franchina D.G., Kurniawan H., Nonnenmacher Y., Bonetti L.,
Guerra L., Lohoff M., Jaeck H.M., Mak T.W., Hiller K., Brenner D.
Esch-sur-Alzette/Luxembourg

17:30h

F6 **Presentation by Horizon Discovery Group**
Mapping your path – with CRISPR Screening
Hüber D.
Cambridge/United Kingdom

17:45h Short Break

STS Honorary Award Ceremony

Tuesday, 06.11.2018
18:00 – 19:45h

Chair: Katharina Hieke-Kubatzky, Heidelberg

18:00h **Laudatio**
Volker Dötsch, Frankfurt

18:30h **STS Honorary Medal Award Lecture**
p53 and metabolism: cancer and beyond
K. H. Vousden
London, United Kingdom

19:45h Short Break

20:00h Dinner and Crosstalk Puzzle Raffle

Workshop G

Tumor Cell Biology

Wednesday, 07.11.2018
09:00 – 10:30h

Chair: Klaudia Giehl, Gießen
Tilmann Brummer, Freiburg

09:00h

G1 **Keynote:**
The function of MYCN in human neuroblastoma
Eilers M.
Würzburg/Germany

09:30h

G2 ***In vitro* fusion of normal and neoplastic breast epithelial cells with human mesenchymal stroma/stem cells partially involves tumor necrosis factor receptor signaling**
Melzer C., von der Ohe J., Hass R.
Hannover/Germany

09:45h

G3 **The PH-domain of CNK1 acts as potent inhibitor of RHOA-induced blebbing**
Mühlhäuser W.W.D., Urban N., Neumann M., Weber W., Radziwill G.
Freiburg/Germany

10:00h

G4 **Susceptibility of CLL cells to ABT-199 treatment is increased by neutralization of BAFF (B cell activating factor) with belimumab**
Tandler C., Schmidt M., Schmidt J., Wild J., Strunz B., Dörfel D., Salih H.R.
Tübingen/Germany

10:15h

G5 ***Presentation by PluriSelect Life Science (HiSS Diagnostics)***
Minimize artifacts in RNA expression and protein profiling
Heinrich J.-M.
Leipzig/Germany

10:30h Coffee Break / Sponsors' Exhibition

Workshop H
Immune Cell Signaling II

Wednesday, 07.11.2018
11:00 – 12:30h

Chair: Friederike Berberich-Siebelt, Würzburg
Martin Väth, Würzburg

11:00h

H1 **Keynote:**
How membrane dynamics of signaling molecules control T cell responses
Lillemeier B.
La Jolla/California, USA

11:30h

H2 **Creld1 regulates T cell survival and fate in mouse and humans**
Bonaguro L., Köhne M., Schmidleithner L., Schulte-Schrepping J., Mass E.,
Beyer M., Li Y., ter Horst R., Falk C., Netea M.G., Hoch M., Schultze J.L.,
Aschenbrenner A.C.
Bonn/Germany

11:45h

H3 **Lack of NFATc1 SUMOylation prevents autoimmunity and alloreactivity**
Dietz L., Qureischi M., Väth M., Vallabhapurapu S., Klein-Hessling S., Klein M.,
König A., Serfling E., Mottok A., Bopp T., Rosenwald A., Buttmann M., Berberich I.,
Beilhack A., Berberich-Siebelt F.
Würzburg/Germany

12:00h

H4 **Cold shock proteins interfere with TNF binding to its receptor and modulate progranulin-mediated inhibition of signaling**
Hildebrandt J., Hessman C.L., Brandt S., Bock A., Shah A., Buchbinder J., Frye B.,
Raffetseder U., Geffers R., Lavrik I., Brunner-Weinzierl M., Isermann B.,
Mertens P.R., Lindquist J.A.
Magdeburg/Germany

12:15h

H5 **Degranulation of cytotoxic lymphocytes is a major source of proteolytically active soluble CD26/DPP4**
Lettau M., Vollmers S., Janssen O.
Kiel/Germany

12:30h STS Science Award, GBM Innovation Award, Poster Prizes

13:00h Lunch Snack

15:00h End of Meeting

Poster Presentation I (PA1-PD2)

Monday, 05.11.2018, 17:45h – 18:15h

**Chair:
Marcus Lettau, Kiel**

- PA1 Mechanisms of reliable information transmission in JAK/STAT signalling**
Billing U., Jetka T., Nortmann L., Wundrack N., Komorowski M., Waldherr S.,
Schaper F., Dittrich A.
Magdeburg/Germany
- PA2 Investigating the role of the GABARAP subfamily of human ATG8s during EGFR
and transmembrane protein trafficking by genome editing and surface proteome
analysis**
**Dobner J., Simons I., Sanwald J., Hoffmann S., Bode J.G., Häussinger D.,
Willbold D.**
Düsseldorf/Germany
- PA3 Acidic environment induces dimerization and ligand binding site collapse in
the Vps10p domain of sortilin**
Janulienė D., Andersen J.L., Nielsen J.A., Quistgaard E.M., Hansen M.,
Strandbygaard D., Moeller A., Petersen C.M., Madsen P., Thirup S.S.
Frankfurt/Germany
- PA4 Inhibition of dynamin II by dynasore impairs platelet-derived growth factor β -
receptor dimerization and signaling**
Heldin J., Sander M., Leino M., Lennartsson J., Söderberg O.
Uppsala/Sweden
- PA5 Activation of NF- κ B requires Y-box binding protein 1**
Shah A., Lindquist J.A., Gorny X., Buchbinder J., Lavrik I., Schmitz I., Mertens P.R.
Magdeburg/Germany

- PA6 Overexpression of colony-stimulating factor-1 receptor in A431 cells reduced sensitivity to epidermal growth factor receptor inhibitor gefitinib**
Niehus S.E., Tran D.D.H., Mischak M., Koch A.
Hannover/Germany
- PB1 A ruthenium(II) N-heterocyclic carbene (NHC) complex with naphthalimide ligand triggers apoptosis in colorectal cancer cells via activating the ROS-p38 MAPK pathway**
Dabiri Y., Schmid A., Theobald J., Streciwilk W., Ott I., Wölfl S., Cheng X.
Heidelberg/Germany
- PB2 Identification of autophagy-modulating natural products and derivatives for the elimination of therapy-resistant tumor cells**
Deitersen J., Schlütermann D., Stuhldreier F., Liebfried P., Böhler P., Berleth N., Wu W., Wang X., Stork B.
Düsseldorf/Germany
- PB3 Identification and characterisation of the TBK1-FIP200 interaction**
Schlütermann D., Deitersen J., Berleth N., Wu W., Stuhldreier F., Böhler P., Wallot-Hieke N., Mendiburo M.J., Peter C., Stork B.
Düsseldorf/Germany
- PB4 TRRAP-FoxO3 interaction may account for indirect gene regulation by FoxO forkhead transcription factors**
Fusi L., Adam C., Meder K., Schlosser A., Goebeler M., Schmidt M.
Würzburg/Germany
- PB5 The MEK5/ERK5 MAPK cascade is an effector pathway of bone-sustaining bisphosphonates that regulates osteogenic differentiation and mineralisation**
Adam C., Glueck L., Ebert R., Goebeler M., Jakob F., Schmidt M.
Würzburg/Germany
- PB6 Plumbagin, a natural compound with osteoclastic properties?**
Sultanli S., Ashma R., Kubatzky K.F.
Heidelberg/Germany

- PB7** **Wnt5a mediates extension lymphangiogenesis and differentiation of lymphatics**
Lutze G., Haarmann A., Demanou J.A., Buttler K., Wilting J., Becker J.
Göttingen/Germany
- PB8** **Identification and characterization of autophagy-modulating compounds**
Fichtner J., Wirth M., Schmitz I.
Braunschweig/Germany
- PB9** **Examination of the species-specific regulation of necroptosis by caspases in human U-937 cells**
Klausewitz J., Saggau C., Adam D.
Kiel/Germany
- PC1** **Impaired T-cell response in chronic implant-associated bone infections.**
Seebach E., Heeg K., Kubatzky K.F.
Heidelberg/Germany
- PC2** **Inhibition of farnesylation of Ras-GTPases ameliorates inflammation-induced loss of endothelial barrier integrity and leukocyte transmigration**
Sevinc N., Guenduez D., Tanislav C., Troidl C., Hamm C., Aslam M.
Giessen/Germany
- PC3** **I κ B ζ is a key mediator of IL-36 signaling in psoriasis**
Müller A., Henning A., Lorscheid S., Grondona P., Schulze-Osthoff K., Hailfinger S.,
Kramer D.
Tübingen/Germany
- PC4** **A battle for survival – the interplay between autophagy and *S. aureus* infection**
Riebisch A.K., Neumann Y., Bruns S.A., Rohde M., Schmitz I.
Braunschweig/Germany
- PC5** **Elucidating the role of the effector protein ExoY in *Pseudomonas aeruginosa* infections**
Schirmer B., Kloth C., Roths Schuh J., Seifert R.
Hannover/Germany

- PC6** **The role of acetyl-CoA-carboxylases in balancing the lipid homeostasis in macrophages upon *Mycobacterium tuberculosis* infection**
Tazoll S.C., Julius J., Vierbuchen T., Heine H., Reiling N.
Borstel/Germany
- PC7** **Autonomous S1P production critical in regulating endothelial barrier function in sepsis condition**
Jeyapaul J., Gräler MH.
Jena/Germany
- PD1** **Mitogenic Ras signalling during G1-to-S progression analysed using a novel tool for acute Ras inhibition**
Vasjari L., Bresan S., Rubio I.
Jena/Germany
- PD2** ***Pasteurella multocida* toxin triggers mitochondrial activity via $G\alpha_q$**
Kraus F., Chakraborty S., Kloos B., Hafner A., Uhle F., Kubatzky K.F.
Heidelberg/Germany

Poster Presentation II (PD3-PI5)

Tuesday, 06.11.2018, 13:30h – 14:00h

**Chair:
Bastian Schirmer, Hannover**

- PD3 Analysis of Raf kinase inhibitor protein (RKIP) binding to different isoforms of G protein receptor kinases (GRK)**
Maimari T., Krasel C., Bünemann M., Lorenz K.
Dortmund/Germany
- PD4 Evidence for the involvement of histamine H₄ receptor (H₄R) in the pathogenesis of experimentally induced colorectal carcinoma**
Rother T., Schirmer B., Seifert R., Neumann D.
Hannover/Germany
- PD5 The mechanism underlying insulin receptor activation – a lipid nanodisc reconstitution approach**
Gutmann T., Kim K.H., Grzybek M., Walz T., Coskun Ü.
Dresden/Germany
- PE1 Differential effects of prostaglandin receptor subtypes in primary nociceptive processing**
Ebersberger A., König C., Rubio I., Wetzker R., Schaible H.G.
Jena/Germany
- PF1 Characterization of mice with a NK cell-specific deletion of the adapter molecule ADAP**
Voss M., Rudolph J., Guttek K., Weitz G., Reinhold D., Schraven B., Reinhold A.
Magdeburg/Germany

-
- PF2 Quantitative modelling of B cell signalling unveils global feedback loops and crosstalk from p38 MAPK to ERK signalling**
Rausch I., Klinger B., Witzel F., Sieber A., Kutz H., Kieser A., Blüthgen N., Kube D.
Göttingen/Germany
- PF3 Release of CD26/DPP4 (dipeptidyl peptidase 4) from human lymphocytes**
Vollmers S., Janssen O., Lettau M.
Kiel/Germany
- PF4 NFATc1 induction interferes with B cell maturation**
Muhammad K., Rudolf R., Pham D.A.T., Klein-Hessling S., Takata K., Kondo E., Serfling E.
Würzburg/Germany
- PF5 PMCA1, one of only two calcium extrusion pumps expressed in immune cells, is required for normal B cell development and calcium signaling**
Tech L., Korthals M., Langnaese K., Tedford K., Fischer K.D.
Magdeburg/Germany
- PF6 Filamin A phosphorylation at serine 2152 by the serine/threonine kinase Ndr2 controls TCR-induced LFA-1 activation in T cells**
Mix C., Waldt N., Seifert A., Demiray Y.E., Reichardt P., Reinhold A., Freund C., Müller A.J., Schraven B., Stork O., Kliche S.
Magdeburg/Germany
- PG1 Combined targeting of AKT and mTOR synergistically inhibits proliferation and tumoroid formation of primary colorectal carcinoma cells**
Nörz D., Linnebacher M., Hagel G., Siekiera J., Mirdogan A., Block A., Thastrup O., Jücker M.
Hamburg/Germany
- PG2 Analysis of human stem-like glioma cell lines after CRISPR/Cas9 editing in the transmembrane domain of PDGFRA or PDGFRB**
Ostermaier J., Pott H., Reclam J., Pawlak E., Tronnier V., Zechel C.
Lübeck/Germany
- PG3 Migration and metastasis of NSCLC lung cancer cells induced by TGF β 1**
Lohfink D., Seiz J.S., Giehl K., Menke A.
Giessen/Germany
-

- PG4 Galectin-8 interacts with K-Ras4B via the hypervariable region and influences the PI3K/AKT and Ras/ERK pathway**
Meinohl C., Wirth S., Heipel M., Giehl K.
Giessen/Germany
- PG5 Phosphatase activity and substrate specificity of the tumor suppressor PTEN is modulated by the lipid environment of the membrane**
Zedler C., Freibert S.A., Oliver D., Hobiger K.
Marburg/Germany
- PG6 Phosphorylation of the pyruvate dehydrogease complex can be observed during different processes such as “early” hypoxia or BRAF inhibitor treatment**
Cesi G., Zimmer A.D., Walbrecq G., Kozar I., Kreis S., Behrmann I., Haan C.
Belvaux/Luxembourg
- PG7 ATRA modulates the expression of alternative transglutaminase 2 variants in brain tumors through interactions between regulatory factors and intronic regions**
Bianchi N., Minotti L., Corrà F., Volinia S., Bergamini C.M.
Ferrara/Italy
- PG8 A targeted genome editing approach to disclose the role of the repressor GCNF in the regulation of stemness**
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Lübeck/Germany
- PG9 Preclinical and clinical studies with cell-penetrating peptides in diagnosis and treatment of tumors**
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Jena/Germany
- PI1 Binding of different biased ligands to the μ -opioid receptor and receptor interaction with some cognate signaling proteins diversely affects its mobility in the plasma membrane**
Marková V., Melkes B., Novotný J.
Prague/Czech Republic

- PI2** **Using FRAP to study molecular interactions between the μ -opioid and TRPV1 receptors**
Melkes B., Markova V., Novotny J.
Prague/Czech Republic
- PI3** **Phosphorylation of phospholipase PLC- γ 2 by receptors from the insulin receptor family**
Deyev I.E., Serova O.V., Mozhaev A.A., Goryashchenko A.S., Petrenko A.G.
Moscow/Russia
- PI4** **HTRF phospho-assays reveal subtle drug-induced effects in tumor xenografts. A method of choice beyond Western blot**
Vallaghé J., Monchiet D., Costy N., Chardès T., Larbouret C., Tringuet E., Charrier-Savournin F.
Codolet/France
- PI5** **Automated monitoring and analysis of kinetic live cell 3D spheroid-based tumor invasion within a hydrogel matrix**
Larson B., Giebeler A., Seldin J.
Bad Friedrichshall/Germany

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Sultanli, Sevinc

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Tazoll, Simone

Väth, Martin R.
Vollmers, Sarah
Voss, Martin
Vousden, Karen H.

Weber, Jonas
Wedekink, Florian
Wesselborg, Sebastian
Wohlmann, Andreas

Zingler, Philipp

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