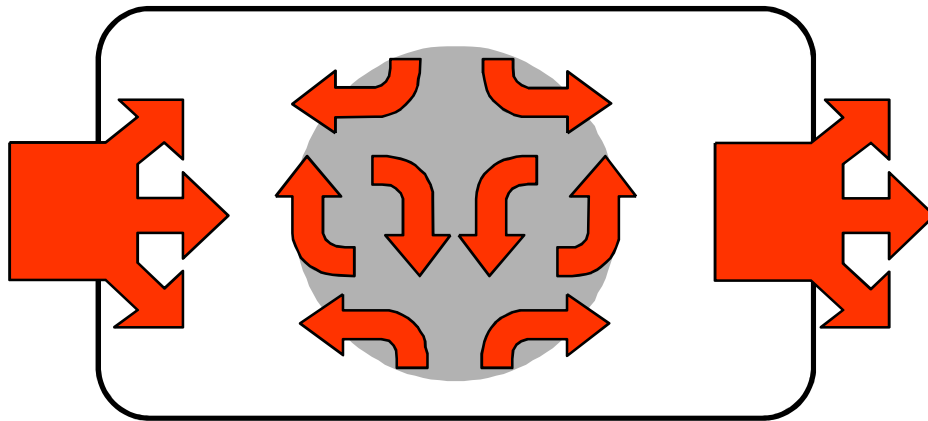


# Signal Transduction Society (STS)



## **23<sup>rd</sup> Meeting on Signal Transduction** *Receptors, Mediators, and Genes*

Leonardo Hotel Weimar  
November 4-6, 2019

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Dear Colleagues,

It is our pleasure to welcome you to the 23<sup>rd</sup> Meeting on 'Signal Transduction - Receptors, Mediators, and Genes' in Weimar.

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. The meeting with its focus theme '**Trends in Cancer and Infection**' is jointly organized by the STS in association with our partners, the German Centre for Infection Research (DZIF), 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 'Molecular Organisation of Cellular Communication within the Immune System' (Magdeburg). This year, we also welcome the *Young Investigators* of the GBM 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 '**My Poster in One Minute**' presentations, will provide the opportunity to all participants to introduce their work to the plenum.

We are pleased to announce that the **STS Honorary Medal**, supported once again by the 'International Journal of Molecular Sciences', will be given to Prof. Alfred Wittinghofer (Max-Planck-Institute for Molecular Physiology, Dortmund). With this award, the STS acknowledges his influential work on the structure-function relationships of GTP-binding proteins.

Please also consider submitting your work to the 'International Journal of Molecular Sciences' (IJMS) published by MDPI (Basel, CH). We are delighted to announce at this meeting that the Signal Transduction Society is now officially affiliated with 'IJMS'. This means that STS members receive a discount on the article processing charges to

publish in 'IJMS' (15%), and in the two MDPI-owned journals 'Genes' and 'Cancers' (10%).

Our particular thanks go to the industrial sponsors of the STS Meeting 2019. 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 famous '*Crosstalk Puzzle*' to get the possibility to win one of the attractive prizes and to attend the informative plenary talks by our industrial partners. We especially acknowledge the support by the GBM for sponsoring the GBM Innovation Award for Young Scientists. 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 4<sup>th</sup>, 2019 at 1:30 p.m. All members of the STS are cordially invited to discuss current matters of the Society. This year's travel stipends will be awarded at the end of the General Assembly.

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. Please also use the possibility to follow our activities on @signalsociety via twitter.

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. +49 3643 7220  
November 4-6, 2019

### Location

Lectures as well as the 'My Poster in One Minute' presentations will be held in the Goethe Hall. Poster viewing/discussion and sponsors' exhibition take place in the Goethe Foyer and in the Belvedere 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. 4	08:00h – 18:00h
Tuesday, Nov. 5	08:30h – 18:00h
Wednesday, Nov. 6	08:30h – 12:30h

### 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, please return the holders at the registration desk when you leave the meeting.*

## Registration fees 2019

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

STS Members		Non-Members	
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)

STS Members		Non-Members	
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.

**WLAN**

WLAN, 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. 4 and 5, 2019) and a lunch snack (Nov. 6, 2019) 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**

Awards and poster prizes will be handed over on Wednesday, Nov. 6, 2019 at the end of the meeting (12:15 h). This year's travel stipends will be awarded at the end of the General Assembly. 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](http://www.sigtrans.de/meeting.html)

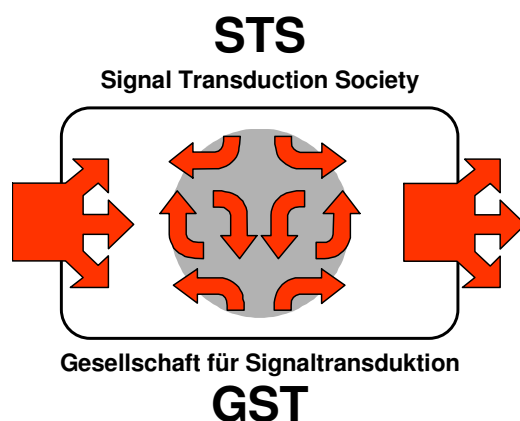
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## Time Table

<b>Monday, November 4, 2019</b>	
08:00	<b>Registration / Poster Mounting / Gathering</b>
08:30	Welcome Note
08:45	<b>Workshop A     DZIF Workshop on Infection and Cancer</b>
10:30	Coffee Break / Sponsors' Exhibition
11:00	<b>Workshop B     Cytokines, Growth Factors, and Their Receptors</b>
12:30	Lunch Break/ Sponsors' Exhibition
13:30	<b>General Assembly of the STS / Sponsors' Exhibition / Poster Preview</b>
15:00	Coffee Break / Sponsors' Exhibition
15:30	<b>Workshop C     Differentiation, Stress, and Death</b>
17:00	Short break
17:15	<b>Poster Presentation I     PA1 – PC5</b>
	<b>'My Poster in One Minute'</b>
17:45	Poster Viewing & Discussion / Sponsors' Exhibition / Beverages & Snacks
19:30	Dinner

<b>Tuesday, November 5, 2019</b>	
08:45	<b>Workshop D Tumor Biology and Immunity</b>
10:30	Coffee Break / Sponsors' Exhibition
11:00	<b>Workshop E Signaling From Intracellular Organelles</b>
12:30	Lunch Break / Sponsors' Exhibition
13:30	<b>Poster Presentation II PD1-PI8</b>
	<b>'My Poster in One Minute'</b>
14:00	Poster Viewing & Discussion / Sponsors' Exhibition / Coffee
15:30	<b>Workshop F Tumor Biomarkers and Oncogenes</b>
17:00	Short Break
17:30	<b>STS Honorary Medal Award Ceremony</b>
19:15	Short Break
19:30	<b>Dinner and Crosstalk Puzzle Raffle</b>

<b>Wednesday, November 6, 2019</b>	
08:45	<b>Workshop G Immune Cell Signaling and Cancer</b>
10:30	Coffee Break / Sponsors' Exhibition
11:00	<b>Workshop H Calcium Signaling</b>
12:15	<b>Awards and Poster Prizes</b>
12:30	Lunch Snack
14:00	<b>End of Meeting</b>



## 23<sup>rd</sup> Meeting on Signal Transduction:

### *Receptors, Mediators, and Genes*

**Leonardo Hotel Weimar**

**November 4-6, 2019**

<b>Organizers:</b>	Katharina Hieke-Kubatzky, Heidelberg Klaudia Giehl, Gießen Ingo Schmitz, Braunschweig Detlef Neumann, Hannover
<b>Program Committee:</b>	Klaudia Giehl, Gießen Katharina Hieke-Kubatzky, Heidelberg Detlef Neumann, Hannover Marcus Lettau, Kiel Ingo Schmitz, Braunschweig Workshop Chairpeople
<b>Grant Committee:</b>	Klaudia Giehl, Gießen STS-Council
<b>Program Booklet:</b>	Annette Stanke, Hannover Bastian Schirmer, Hannover
<b>Webmaster:</b>	Philipp Busse, Hannover
<b>STS Office:</b>	Annette Stanke, Hannover



The 23<sup>rd</sup> Meeting on '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 2019. 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 2019 are:

Biomol GmbH	MSD SHARP & DOHME GmbH
Berthold Technologies GmbH & Co. KG	New England Biolabs GmbH
BioTek Instruments GmbH	Novartis Pharma GmbH
Biozol Diagnostica Vertrieb GmbH	OMNI Life Science GmbH & Co. KG
BioVendor GmbH	OriGene Technologies GmbH
Bristol-Myers Squibb GmbH & Co. KGaA	PerkinElmer LAS (Germany) GmbH
Cell Signaling Technology Europe b.v.	PeproTech GmbH
Cenibra GmbH	Promega GmbH
Cisbio Bioassays	Sarstedt AG & Co. KG
FUJIFILM Wako Chemicals Europe GmbH	SERVA Electrophoresis GmbH
Gilson International BV Deutschland	tebu-bio GmbH
Horizon Discovery Ltd	VectorBuilder GmbH
LI-COR Biosciences GmbH	

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 and honors the best poster contributions. The STS council is very grateful to this year's Meeting '**SILVER SPONSORS**'





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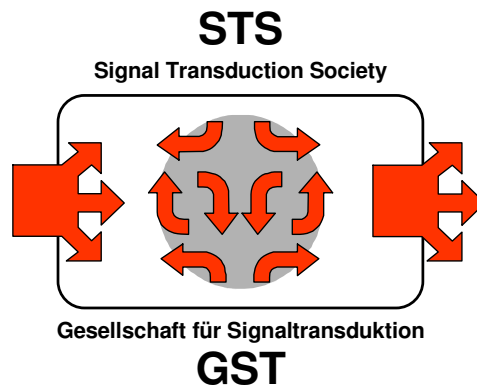
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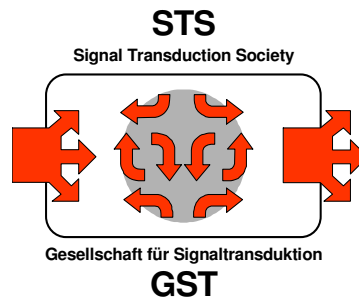
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Signal-Transduction-Society



**@SignalSociety**



## Mitgliederversammlung / General Assembly Signal Transduction Society (STS)

Datum: Montag / Monday, November 4, 2019, 13:30-15:00 h  
Ort: Leonardo Hotel, Weimar, Goethe Saal / Goethe Hall  
Präsidentin: Katharina Hieke-Kubatzky  
Protokollführer: Bastian Schirmer

### Tagesordnung / Agenda

1. Genehmigung der Tagesordnung / Adoption of the Agenda
2. Genehmigung des Protokolls der Mitgliederversammlung 2018 / Adoption of the Protocol of the General Assembly 2018
3. Bericht der Präsidentin / President's Report
4. Bericht zu den Finanzen / Treasurer's Report
5. Entlastung des Vorstandes / Exoneration of the Council
6. Wahl Vorstand / Election council
7. Wahl Advisory Board / Election advisory board
8. STS Meeting 2020
9. Verschiedenes / Matters arising
10. Vergabe von Reise-Stipendien / Awarding of Travel Stipends

### STS Vorstand/ Council

Katharina Hieke-Kubatzky (Heidelberg), Ingo Schmitz (Braunschweig), Klaudia Giehl (Gießen), Detlef Neumann (Hannover)

### STS Beirat / Advisory Board

Friederike Berberich-Siebelt (Würzburg), Arnd Kieser (München), Marcus Lettau (Kiel), Bastian Schirmer (Hannover)

08:00h Registration

08:30h Welcome Note

**Workshop A**

**DZIF Workshop on Infection and Cancer**

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**Monday, 04.11.2019**  
**08:45 – 10:30h**

**Chair: Raquel Mejías-Luque, München**  
**Arnd Kieser, München**

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08:45h

**A1**     **Keynote:**  
**Gastric cancer: *Helicobacter pylori* and beyond**  
Céu Figueiredo  
Porto/Portugal

09:15h

**A2**     **Keynote:**  
**On the role of immune cells on NASH/liver cancer and its consequences for therapy**  
Mathias Heikenwälder  
Heidelberg/Germany

09:45h

**A3**     ***Mycobacterium tuberculosis* exploits WNT6-induced acetyl-CoA carboxylase-2 driven perturbation of host lipid homeostasis to facilitate growth in macrophages**  
Julius Brandenburg, S Marwitz, SC Tazoll, F Waldow, B Karlsdorf, T Vierbuchen, T Scholzen, A Gross, S Goldenbaum, A Hölscher, M Hein, L Linnemann, M Reimann, A Kispert, M Leitges, J Rupp, C Lange, S Niemann, J Behrends, T Goldmann, H Heine, UE Schaible, C Hoelscher, D Schwudke, N Reiling  
Borstel/Germany

10:00h

**A4**     ***Staphylococcus aureus* triggers a shift from influenza virus-induced apoptosis to necrotic cell death resulting in massive tissue damage**  
S Deinhardt-Emmer, A van Kruechten, JJ Wilden, S Niemann, AS Mosig, B Loeffler, G Peters, S Ludwig, Christina Ehrhardt  
Jena/Germany

10:15h

**A5**     **Presentation by OMNI Life Science GmbH & Co. KG**  
**Cell research in 3D**  
Kathrin Ringwald, M Heikenwälder  
Bremen/Germany

10:30h Coffee Break / Sponsors' Exhibition

**Workshop B****Cytokines, Growth Factors, and Their Receptors****Monday, 04.11.2019****11:00 – 12:30h****Chair: Antje Ebert, Göttingen****Jonathan Lindquist, Magdeburg**

11:00h

**B1** *Keynote:*  
**Signalling from receptors to Rho GTPases and the cytoskeleton**  
Anne Ridley  
Bristol/United Kingdom

11:30h

**B2** **Single-molecule imaging of the plasma membrane TNFR1 equilibrium reveals novel roles for the Pre-Ligand Assembly Domain in ligand-independent TNFR1 clustering**  
C Karathanasis, J Medler, F Fricke, S Smith, S Malkusch, D Widera, S Fulda, I Dikic, H Wajant, M Heilemann, Sjoerd JL van Wijk  
Frankfurt am Main/Germany

11:45h

**B3** **The RING ligase complex Cullin-3-Rbx1-KCTD10 controls endothelial barrier function through K63-specific ubiquitination of RhoB**  
Igor Kovacevic, T Sakaue, J Majolee, MC Pronk, M Maekawa, D Geerts, M Fernandez-Borja, S Higashiyama, PL Hordijk  
Halle/Germany

12:00h

**B4** **Fermented food-derived metabolites of lactic acid bacteria modulate immune function via highly potent activation of human hydroxycarboxylic acid receptor 3**  
A Peters, P Krumbholz, E Jaeger, A Heintz-Buschart, MV Cakir, S Rothemund, A Gaudl, U Ceglarek, T Schoeneberg, Claudia Stäubert  
Leipzig/Germany

12:15h

**B5** *Presentation by tebu-bio GmbH*  
**A new and simple technique to measure membrane tension in living cells with FLIM microscopy**  
Regina Ohmer, J Boex, L Reymond, F Samazan  
Offenbach/Germany

12:30h Lunch Break / Sponsors' Exhibition

13:30h STS General Assembly / Sponsors' Exhibition / Poster Preview

15:00h Coffee Break / Sponsors' Exhibition

**Workshop C****Differentiation, Stress, and Death**

**Monday, 04.11.2019**  
**15:30 – 17:00h**

**Chair: Ingo Schmitz, Braunschweig**  
**Christina Ehrhardt, Jena**

15:30h

**C1** **Keynote:**  
**Signaling to life and death: Influenza viruses and intracellular signal transduction cascades**  
Stephan Ludwig  
Münster/Germany

16:00h

**C2** **The transcription factor NFAT5 controls the integrity of skin**  
K Muhammad, S Klein-Hessling, V Schmitt, M Goebeler, S Tenzer, M Klein, C Lopez-Rodriguez, A Kerstan, Edgar Serfling  
Würzburg/Germany

16:15h

**C3** **Understanding insulin receptor activation**  
Theresia Gutmann, IB Schäfer, C Poojari, KH Kim, T Walz, I Vattulainen, M Strauss, U Coskun  
Dresden/Germany

16:30h

**C4** **Inhibition of extrinsic apoptosis by cytomegalovirus determines its fitness in presence of CD8 T cells**  
Muhammad Z Chaudhry, R Casalegno-Garduno, B Kasmapour, A-K Pulm, I Brizic, B Eiz-Vesper, S Jonjic, ES Mocarski, L Cicin-Sain  
Braunschweig/Germany

16:45h

**C5** **Presentation by Cenibra GmbH**  
**Smart imaging for your cell culture**  
Timo Herrenkind  
Bramsche/Germany

17:00h Short Break

17:15h **Poster Presentation I** Posters PA1 – PC5  
**'My Poster in One Minute'**  
Chair: Norbert Reiling, Borstel

17:45h Poster Viewing and Discussion / Sponsors' Exhibition / Beverages and Snacks

19:30h Dinner

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**Workshop D**  
**Tumor Biology and Immunity**

**Tuesday, 05.11.2019**  
**08:45 – 10:30h**

**Chair: Andre Menke, Gießen**  
**Anca Dorhoi, Insel Riems**

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08:45h

**D1**     **Keynote:**  
**Microbiota regulation of the tumor microenvironment**  
Romina Goldszmid  
Bethesda/MD, USA

09:15h

**D2**     **Keynote:**  
**From melanoblasts to melanoma**  
Lionel Larue  
Orsay/France

09:45h

**D3**     **Renal cell carcinoma cells depend on c-FLIP and CD95 signaling**  
T Luebke, L Schwarz, YY Beer, S Schumann, M Misterek, FE Sander,  
C Plaza-Sirvent, Ingo Schmitz  
Braunschweig/Germany

10:00h

**D4**     **TGF- $\beta$  promotes the differentiation of V $\delta$ 2 T cells with high cytotoxic potential**  
Christian Peters, A Meyer, L Kouakanou, M Lettau, O Janssen, D Wesch, D Kabelitz  
Kiel/Germany

10:15h

**D5**     **Presentation by VectorBuilder GmbH**  
**VectorBuilder: A revolutionary platform for vector design, custom cloning  
and virus packaging**  
Justin E Mirus  
Neu-Isenburg/Germany

10:30h    Coffee Break / Sponsors' Exhibition



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**Workshop E**

**Signaling From Intracellular Organelles**

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**Tuesday, 05.11.2019**  
**11:00 – 12:30h**

**Chair: Tobias Stauber, Berlin**

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11:00h

**E1**     **Keynote:**  
**mTOR and lysosome: two pillars of nutrient sensing**  
Viktor Korolchuk  
Newcastle upon Tyne/United Kingdom

11:30h

**E2**     **Deciphering pathways of disease tolerance and resilience in inflammatory liver failure**  
Iqra Hussain, AT Press, M Bauer, I Rubio  
Jena/Germany

11:45h

**E3**     **The role of Spred1 and endocytosis in the regulation of the Ras/MAPK pathway**  
Stephanie Morgner, Z Naeem, T Krueger, O Kniemeyer, C Biskup, I Rubio  
Jena/Germany

12:00h

**E4**     **Serotonin receptors regulate cellular morphology via activation of small GTPases of the Rho family**  
Evgeni Ponimaskin  
Hannover/Germany

12:15h

**E5**     **Presentation by Promega GmbH**  
**Deciphering key cancer and inflammation signaling pathways with homogeneous bioluminescent cell-based kinase activity assays**  
Erik Bonke  
Mannheim/Germany

12:30h   Lunch Break / Sponsors' Exhibition

13:30h   **Poster Presentation II     Posters PD1 – PI8**  
**'My Poster in One Minute'**  
Chair: Bastian Schirmer, Hannover

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

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**Workshop F**

**Tumor Biomarkers and Oncogenes**

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**Tuesday, 05.11.2019**  
**15:30 – 17:00h**

**Chair: Iver Petersen, Jena**  
**Klaudia Giehl, Gießen**

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15:30h

**F1** **Keynote:**  
**Biomarker strategies in clinical pathology -  
immunotherapy and molecular profiling**  
Carsten Denkert  
Marburg/Germany

16:00h

**F2** **Biomarkers for anti-PD1/PDL1 immune checkpoint therapy and  
hyperprogression in lung cancer**  
Iver Petersen  
Gera/Germany

16:15h

**F3** **Chronic TGF $\beta$ 1 stimulation is necessary for migration and metastasis of non-  
small cell lung cancer cells**  
D Lohfink, JR Seiz, K Giehl, Andre Menke  
Gießen/Germany

16:30h

**F4** **Analysis of the FLVR motif of SHIP1 and its importance for the  
protein stability of SH2 containing signaling proteins**  
PAH Ehm, F Lange, C Hentschel, A Jepsen, N Nelson, B Bettin, C de Bruyn Kops,  
J Kirchmair, M Nalaskowski, Manfred Jücker  
Hamburg/Germany

16:45h

**F5** **Presentation by BioVendor GmbH**  
**Novel techniques for the detection and quantification of microRNA biomarkers  
in research and diagnostics of cancer and other diseases**  
Jochen Hauer  
Kassel/Germany

17:00h Short Break

**STS Honorary Award Ceremony**

**Tuesday, 05.11.2019**  
**17:30 – 19:15h**

**Chair: Katharina Hieke-Kubatzky, Heidelberg**  
**Klaudia Giehl, Gießen**

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17:30h **Award Ceremony Opening**  
Katharina Hieke-Kubatzky and Klaudia Giehl

17:40h **Laudatio**  
Gudula Schmidt  
Freiburg/Germany

18:00h **STS Honorary Medal Award Lecture**

**Ras drug development and ciliary trafficking: What is the connection?**  
Alfred Wittinghofer  
Dortmund/Germany

19:30h Dinner and Crosstalk Puzzle Raffle

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**Workshop G**

**Immune Cell Signaling and Cancer**

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**Wednesday, 06.11.2019**  
**08:45 – 10:30h**

**Chair: Friederike Berberich-Siebelt, Würzburg**  
**Silja Weßler, Salzburg (AT)**

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08:45h

**G1**     **Keynote:**  
**An unexpected force from within:**  
**the complosome as key player in normal cell physiology**  
Claudia Kemper  
Bethesda/MD, USA

09:15h

**G2**     **Keynote:**  
**Targeting oncogenic B cell receptor signaling**  
Thomas Oellerich  
Frankfurt/Germany

09:45h

**G3**     **Genetic engineering and signaling studies of human B cell tumor cells**  
K Kläsener, Y Ortiz, D Saltukoglu, J Yang, J Jellusova, Michael Reth  
Freiburg/Germany

10:00h

**G4**     **Lead optimization and characterization of a class of small molecule inhibitors targeting the LMP1-TRAF2 protein-protein interaction**  
Fabian Giehler, S Blazy, P Kirsch, M Ostertag, Y Chen, K Schorpp, S Dornauer, K Hadian, G Popowicz, M Empting, O Plettenburg, J Kirchmair, A Kieser  
München/Germany

10:15h

**G5**     **The tumor suppressor RFX7 governs as p53 target gene network and the PI3K-AKT-mTOR pathway.**  
Luis Coronel, K Riege, S Förste, L Semerau, S Hoffmann, M Fischer  
Jena/Germany

10:30h   Coffee Break / Sponsors' Exhibition

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**Workshop H**  
**Calcium Signaling**

**Wednesday, 06.11.2019**  
**11:00 – 12:15h**

**Chair: Detlef Neumann, Hannover**  
**Evgeni Ponimaskin, Hannover**

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11:00h

**H1**     **Keynote:**  
**The complex interrelation between oncogenes, IP<sub>3</sub> receptor and Ca<sup>2+</sup> signaling in cancer**  
Jan B Parys, CW Distelhorst, G Bultynck  
Leuven/Belgium

11:30h

**H2**     **The phospholipase D inhibitor FIPI potently blocks the EGF induced calcium influx in human breast cancer cell lines**  
Helena M Stricker, N Rommerswinkel, T Dittmar  
Witten/Germany

11:45h

**H3**     **Dorsomorphin stabilises endothelial junctions and barrier function via Rac1 activation: Role of intracellular calcium**  
MA Dawwara, C Troidl, CW Hamm, D Gündüz, Muhammad Aslam  
Gießen/Germany

12:00h

**H4**     **Lack of NFATc1 SUMOylation prevents autoimmunity and alloreactivity**  
Y Xiao, M Qureischi, L Dietz, M Vaeth, SD Vallabhapurapu, S Klein-Hessling, M Klein, A Koenig, A Mottok, T Bopp, A Rosenwald, M Buttman, I Berberich, A Beilhack, Friederike Berberich-Siebelt  
Würzburg/Germany

**12:15h Awards and Poster Prizes**

12:30h Lunch Snack

14:00h End of Meeting

**Poster Presentation I (PA1-PC5)****Monday, 04.11.2019, 17:15h – 17:45h****Chair: Norbert Reiling, Borstel**

- PA1 Characterisation of Akt isoform-specific signalling in lung cancer cells**  
Rebekka Gerloff, A Weiß, A Lammert, R Schermuly, DJ Smit, M Jücker, K Giehl  
Gießen/Germany
- PA2 Mutations in RNF43 lead to hyperactivation of Wnt and NF- $\kappa$ B signaling and aggravated gastric pathology upon *Helicobacter pylori* infection**  
Victoria Neumeyer, M Vieth, M Gerhard, R Mejías-Luque  
München/Germany
- PA3 Analysis of lipid metabolic alterations in primary human macrophages during *Mycobacterium tuberculosis* infection**  
Simone C Tazoll, J Brandenburg, E Herker, D Schwudke, N Reiling  
Borstel/Germany
- PA4 Anti-proliferative effects of cCMP in mammary carcinoma cell lines**  
Sabine Wolter, M Glösen, T Brömsen, R Seifert  
Hannover/Germany
- PA5 Molecularly targeted combination therapies of BRAF mutant colorectal cancers**  
Guadalupe S Lopez Alvarez, GH Klose, M Lewitzky, SM Feller  
Halle (Saale)/Germany
- PA6 Addressing the role of type-1 interferon dependent induction of RSAD2 in *Mycobacterium tuberculosis* infected human macrophages**  
Julian Klingler, J Brandenburg, SC Tazoll, T Vierbuchen, H Heine, N Reiling  
Borstel/Germany
- PA7 The interplay between autophagy and *S. aureus* infection**  
Anna K Riebisch, Y Neumann, SA Buns, I Schmitz  
Braunschweig/Germany
- PA8 The role of NOD-like and Toll-like receptors on autophagy induction and p38 MAPK activation upon an *S. aureus* infection**  
Alina Kiesewetter, AK Riebisch, I Schmitz  
Braunschweig/Germany
- PA9 *Helicobacter pylori*-controlled c-Abl localization promotes cell migration and limits apoptosis**  
Gernot Posselt, M Wiesauer, B Chichirau, D Engler, L Krisch,  
G Gadermaier, P Briza, S Schneider, F Boccellato, TF Meyer,  
C Hauser-Kronberger, D Neureiter, A Müller, S Wessler  
Salzburg/Austria

- PA10 Impaired cellular energy metabolism in cord blood macrophages contributes to abortive response toward inflammatory threats**  
S Dreschers, Kim Ohl, M Lehrke, J Moellmann, B Denecke, I Costa, T Vogl, D Viemann, T Orlikowsky, K Tenbrock  
Aachen/Germany
- PA11 Establishment of a 3-dimensional model to determine epithelial layer integrity**  
B Schirmer, R Abromeit, R Seifert, Detlef Neumann  
Hannover/Germany
- PB1 The anti-proliferative effects of THC in human primary glioblastoma cells are mediated by the orphan cannabinoid receptor GPR55**  
Marc Kolbe, T Hohmann, U Hohmann, C Ghadban, J Prell, J Illert, C Strauss, F Dehghani  
Halle (Saale)/Germany
- PB2 *Clostridium botulinum* C3 exoenzyme modulates proliferation by inhibition of RhoA GTPases**  
Julia C Wehmeyer, L von Elsner, S Hagemann, I Just, A Rohrbeck  
Hannover/Germany
- PB3 Potential signaling of colony-stimulating factor-1 receptor in the nucleus**  
Alexandra Koch  
Hannover/Germany
- PB4 Pharmacological and functional similarities of the human neuropeptide Y system in *C. elegans* challenges phylogenetic views on the FLP/NPR system**  
Victoria E Gross, MM Gershkovich, S Prömel, A Kaiser  
Leipzig/Germany
- PB5 Activin signal-driven lineage determination transcription factor HNF4 $\alpha$  is pivotal in liver progenitor cell-mediated liver regeneration**  
Tao Lin, SS Wang, RL Feng, MP Ebert, S Dooley, HG Ding, HL Weng  
Mannheim/Germany
- PC1 Ectopic lymphoid follicles of progressive multiple sclerosis patients lack regulatory T-cells**  
LJ Bell, A Lenhart, A Rosenwald, CM Monoranu, Friederike Berberich-Siebelt  
Würzburg/Germany
- PC2 Role of HtrA2/Omi in parthanatos**  
Jonas Weiß, G Alp, J Hoyer, D Adam  
Kiel/Germany
- PC3 Investigating factors determining the TGF- $\beta$ -dependent differentiation in V $\delta$ 2 T cells**  
Julia Feder, C Peters, D Kabelitz  
Kiel/Germany
- PC4 Functional characterization of nexilin in epithelial cells**  
Paul Jung, L Bloch, J Reiche, O Huber  
Jena/Germany

**PC5** ***Pasteurella multocida* toxin triggers hypermetabolic activity through simultaneous upregulation of AMPK and mTOR**

S Chakraborty, B Kloos, A Hafner, F Uhle, K Thedieck, K Bode,  
Katharina F Kubatzky  
Heidelberg/Germany

**Poster Presentation II (PD1-PI8)**

**Tuesday, 05.11.2019, 13:30h – 14:00h**

**Chair:**

**Bastian Schirmer, Hannover**

**PD1** **Intracellular binding of Galectin-8 to  $\beta$ - and  $\gamma$ -Catenin**

A Zmyslony, K Giehl, Andre Menke  
Gießen/Germany

**PD2** **Galectin-8 regulates K-Ras4B signaling in lung and pancreatic carcinoma cells**

C Meinohl, S Wirth, R Gerloff, A Menke, Klaudia Giehl  
Gießen/Germany

**PD3** **Generation and characterisation of fusion derived MSC x breast cancer cell hybrids**

Jessica Dörnen, O Myklebost, T Dittmar  
Witten/Germany

**PD4** **The ATP-gated cation channel P2X7 on tumor cells interacts with the integrated stress response pathway and potentiates the cytotoxicity of chemotherapeutic drugs**

Sana Javed, F Koch-Nolte, F Haag  
Hamburg/Germany

**PE1** **Activation of NF- $\kappa$ B requires Y-box binding protein 1**

Aneri Shah, J Lindquist, X Gorny, J Buchbinder, I Lavrik, I Schmitz, PR Mertens  
Magdeburg/Germany

**PF1** **Biosensing of unprocessed glycosylphosphatidylinositol-anchored proteins in serum as biomarkers for cellular stress**

Günter A Müller, AW Herling, K Stemmer, MH Tschöp  
Oberschleißheim/Germany

**PG1** **Role of non-canonical NF- $\kappa$ B signaling in gastric carcinogenesis**

Karin Taxauer, M Gerhard, R Mejías-Luque  
München/Germany

**PG2** **Unexpected role of the transactivation domain in nucleocytoplasmic shuttling of STAT5**

Sabrina Ernst, G Müller-Newen  
Aachen/Germany



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- PG3 Different effects of staphylococci planktonic and biofilm media on macrophage function**  
Elisabeth Seebach, P Schad, K Draxel, KF Kubatzky  
Heidelberg/Germany
- PH1 The atypical NF- $\kappa$ B inhibitor I $\kappa$ BNS is crucial for the expression of genes determining regulatory T cell function**  
Gayatri Tandon, K Katsoulis-Dimitriou, C Plaza-Sirvent, Y Fu, AJ Müller, I Schmitz  
Magdeburg/Germany
- PI1 Therapy responsiveness of stem-like glioma cells with CRISPR-Cas9-mediated editing in the genes coding for PDGFR $\alpha$  and  $\beta$ , respectively**  
Thorben Lueg, A Judycka, J Ostermaier, E Pawlak, V Tronnier, C Zechel  
Lübeck/Germany
- PI2 The role of C/EBP $\beta$  phosphorylation for the expression of *IL36A* in LPS-stimulated murine macrophages**  
Andreas Nerlich, C Heede, N Janze, N Ruangkiattikul, R Goethe  
Hannover/Germany
- PI3 Glioma stem cells with a CRISPR/Cas9-mediated knock-out of the Prominin-1/CD133 gene are viable and display stemness**  
Jan Kruse, TJ Kahl, H Seiss, E Pawlak, V Tronnier, C Zechel  
Lübeck/Germany
- PI4 Plumbagin, a natural compound with osteoclastic properties**  
Sevinj Sultanli, KF Kubatzky  
Heidelberg/Germany
- PI5 Advanced 2D wound healing assay procedures performed using a novel, automated scratch tool, high contrast brightfield and fluorescence kinetic imaging**  
B Larson, Joel Mailliet  
Bad Friedrichshall/Germany
- PI6 Tumor maintenance functions of the tuberous sclerosis complex (TSC) in lung cancer**  
Josephine Hartung, C Calkhoven  
Groningen/Netherlands
- PI7 Monitoring protein dynamics at endogenous levels with a luminescent peptide tag**  
C Eggers, B Binkowski, K Riching, S Mahan, J Alves, M Schwinn, Erik Bonke, B Butler, D Daniels, H Zegzouti, T Machleidt, K Wood, F Fan  
Mannheim/Germany
- PI8 Uncovering immunosuppressive effects of ExoY from *Pseudomonas aeruginosa***  
B Schirmer, C Kloth, C Kaiser, A Munder, S Kälble, R Seifert  
Hannover/Germany
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