

# 116th Annual Meeting

## Anatomische Gesellschaft

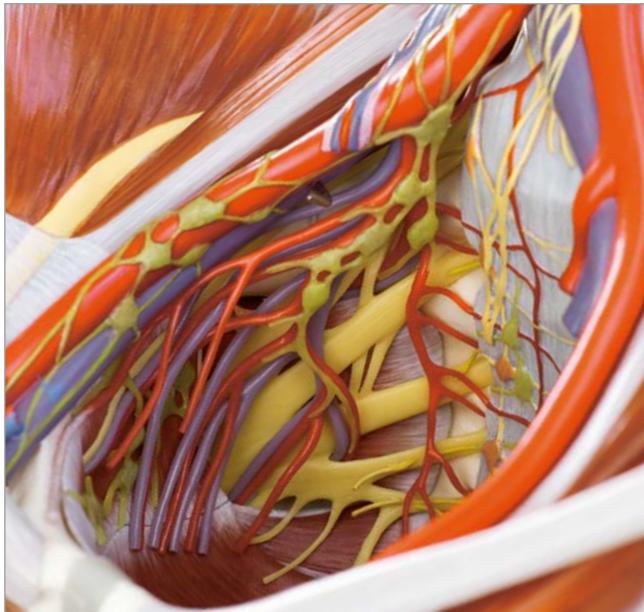
Berlin - 2022, September 20-23



# Neue Modellserie zur Darstellung des weiblichen Beckens - Detailtreue in **SOMSO®**-Qualität

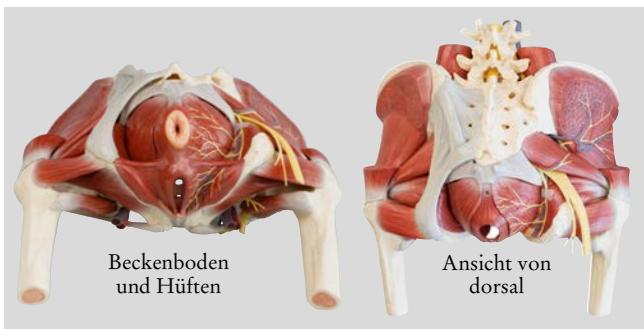


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## MS 8/4 · WEIBLICHES BECKENMODELL

natürliche Größe, aus  
**SOMSO-PLAST®**. Nach  
Prof. Dr. med. Elke Lütjen-  
Drecoll und Prof. Dr. med.  
Dr. med. h.c. J. W. Rohen.  
**In 4 Teile zerlegbar.** Auf  
Stativ mit grünem Sockel.



Die Modellserie besteht aus:  
MS 8/5 · Weibliches  
Beckenmodell  
MS 8/6 · Weibliches  
Beckenbodenmodell  
MS 8/7 · Weibliche  
Genitalorgane  
MS 8/8 · Rechtes Hüftge-  
lenkmodell mit Muskeln  
und Nerven  
MS 8/9 · Linkes Hüftgelenk-  
modell mit Muskeln



| Day                          | Time          | Hall I (Kopsch)  | Hall II (Hertwig)   | Hall III (Virchow)          | Dissection Halls |
|------------------------------|---------------|--|---|-----------------------------|------------------|
| Tuesday<br>September<br>20   | 14:00 – 17:00 |  |   |                             |                  |
|                              | 18:00 – 20:00 | Opening Ceremony   | Mentoring Event   |                             |                  |
|                              | 20:00         | Get-Together Party   |   |                             |                  |
| Wednesday<br>September<br>21 | 09:00 – 10:00 | Keynote lecture: Birgitta Küting<br>Main Topic 1 - Curriculum, Teaching and Assessment   |   |                             |                  |
|                              | 10:30 – 12:00 | Session Main Topic 2   | Session Cell and Developmental<br>Biology                     |                             |                  |
|                              | 13:00 – 15:00 | Session Main Topic 3   | Session Main Topic 4  |                             |                  |
|                              | 15:00 – 17:00 |  |   |                             | Poster Session 1 |
|                              | 17:15 – 18:15 | Keynote lecture: Peter A. Winkler<br>Main Topic 4 - Clinical anatomy - the framework for innovation  |   |                             |                  |
|                              | 19:15         | Conference Dinner  |   |                             |                  |
| Thursday<br>September<br>22  | 09:00 – 10:00 | Keynote lectures: Peter Bruckner, Gundula Schulte-Tanzl<br>Main Topic 5 - Connective tissue: Form, function, fixing and fabrication (Anatomical Society) |   |                             |                  |
|                              | 10:30 – 11:30 | Session Main Topic 5   | Session Cell Biology  |                             |                  |
|                              | 12:30 – 14:30 | Session Main Topic 5   | Session Main Topic 1  | Session Young Investigators |                  |
|                              | 14:30 – 16:30 |  |   |                             | Poster Session 2 |
|                              | 17:00 – 18:00 | Keynote lecture: Zoltan Molnar<br>Main Topic 3 - Assembling neuronal networks during development   | Main Topic 3 - Excitation and inhibition in cortical circuits |                             |                  |
|                              | 18:00 – 21:00 | General Assembly   |   |                             |                  |
| Friday<br>September<br>23    | 09:00 – 10:00 | Keynote lectures: Rony Mory, Christina Brandenberger<br>Main Topic 6 - Structure and function in the cardiopulmonary system                              |   |                             |                  |
|                              | 10:30 – 12:30 | Session Main Topic 6   | Session Neuroscience  |                             |                  |
|                              | 12:45 – 13:00 | Closing Ceremony   |   |                             |                  |

Dear Participants,

We cordially welcome you to the Joint Meeting of the *Anatomische Gesellschaft* and the Anatomical Society at the Centre of Anatomy, Charité - Universitätsmedizin Berlin. Below you find general information regarding the venue and the program.

We wish you an exciting and succesfull meeting and a pleasant stay in Berlin!

The Organizers

## Venue

The **116th Annual Meeting** will take place in the *Wilhelm-Waldeyer-Haus* and the adjacent *Oskar-Hertwig-Haus*, the historic Anatomy buildings at *Charité Campus Mitte*.

**Wilhelm-Waldeyer-Haus**  
**Philipstr. 11**  
**10115 Berlin**



The Campus is in the heart of Berlin, with numerous restaurants and hotels, as well as the main railway station nearby.

The Conference Dinner will take place at the *Panoramapunkt* on *Potsdamer Platz*.

## **General information**

### **Talks**

All speakers are requested to submit their presentations in the „Speakers’ Room“ **at least 1 hour before the start of their session** at the latest, and are also advised to check their slides with the technical support.

Alternatively, speakers can upload their presentations at any time from the beginning of the meeting and do not need to wait until the day of presentation. Speakers in the morning sessions are strongly advised to pre-load their presentations the day before.

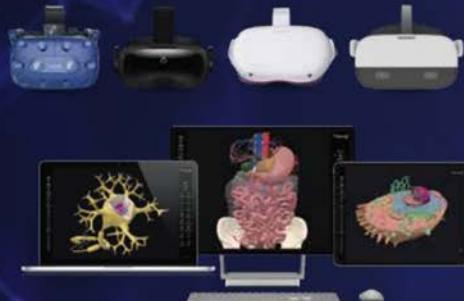
### **Poster presentations**

Two sessions have been reserved for poster presentations in the program of the Meeting: on Wednesday, 21.09 13:00 – 15:00 and Thursday, 22.09, 12:30 – 14:30. The poster sessions will take place in two of the dissection rooms (*Reichert-Saal* and *Müller-Saal*) in the *Waldeyer-Haus*. Please check in this program booklet, in which of the two sessions, in which dissection room and under what number your presentation will be included.

We would like to ask you to **mount the posters** on the day of the presentation **from 8:30 on the allocated poster board** and leave it on display at least until 18:00. However please **remove the poster** **latest by 8:15 the following day**, otherwise the organizers need to remove it to give space for the subsequent presentations. For the **poster format** please adhere to **A0, portrait**.

During the posters session moderated tours of thematically related *poster clusters* will take place (8 – 11 posters; approx. 40 – 55 min). All presenting authors in a given *poster cluster* will be asked to join this tour and also give a concise presentation of their

own posters (3 min, followed by a 2 min discussion). Information regarding your *poster cluster* is also included in this program booklet.



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# Tuesday, 20th September

|               |  |
|---------------|--|
| 14:00 – 17:00 | <b>Mentoring event</b><br>(Oskar-Hertwig-Hörsaal)  |
| 18:00 – 20:00 | <b>Opening ceremony</b><br>(Friedrich-Kopsch-Hörsaal)  |
| 18:00 – 18:10 | <b>Matthias Ochs / Victor Tarabykin / Imre Vida, Berlin</b><br>Welcome   |
| 18:10 – 18:40 | <b>Carola Meier, Homburg</b><br>Presidential address   |
| 18:40 – 18:50 | <b>Ingo Bechmann, Leipzig</b><br>Introduction of honorary members  |
| 18:50 – 18:55 | <b>Friedrich Paulsen, Erlangen</b><br>Introduction of EFEM lecturer  |
| 18:55 – 19:25 | EFEM lecture 2022<br><b>Abigail Tucker, London</b><br>The life of an ear drum: development, defects and repair |
| 19:25 – 19:55 | <b>Andreas Winkelmann, Neuruppin</b><br>The lecture hall we sit in and the anatomy of anatomists               |
| 20:00         | <b>Get-together</b><br>(Entrance area of the Waldeyer-Haus)  |

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Allgemeine Anatomie und Bewegungsapparat, Innere Organe, Kopf, Hals und Neuroanatomie

# Wednesday, 21st September

|               |   |
|---------------|---|
| 9:00 – 10:00  | <b>Keynote lecture: Assembling neuronal networks during development / Excitation and inhibition in cortical circuits</b><br>(Friedrich-Kopsch-Hörsaal)  |
| K5            | <b>Zoltan Molnar, Oxford</b><br><br>Neurons of development in the adult brain   |
| 10:00 – 10:30 | <b>Coffee break</b>   |
| 10:30 – 12:00 | <b>Session, Main topic 2: Assembling neuronal networks during development</b><br>(Friedrich-Kopsch-Hörsaal)   |
| 10:30 – 10:45 | T1 <b>Bitar L., Uphaus T., Thalman C., Gyr L., Ji H., Endle H., Muthuraman M., Nitsch R., Zipp F., Vogt J.</b> <i>Mainz, Jena, Köln and Münster</i><br><br>Inhibition of the enzyme autotaxin reduces critical excitability and ameliorates the outcome in stroke |
| 10:45 – 11:00 | T2 <b>Körber C., Krohs C., Ebbers L., Hoppe S., Dörflinger Y., Nothwang H. G.</b> <i>Heidelberg and Oldenburg</i><br><br>MicroRNAs determine structure and function of a central synapse  |

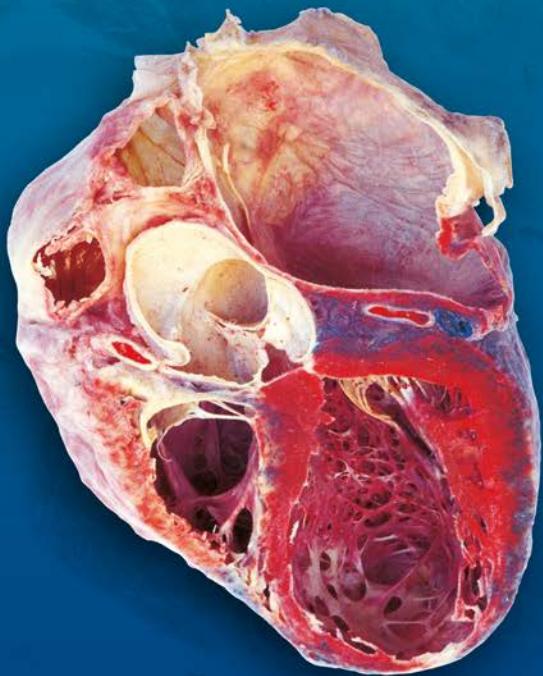
|               |    |  |
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| 11:00 – 11:15 | T3 | <b>Ambrozkiewicz M., Borisova E., Tarabykin V.</b> <i>Berlin</i><br>To translate or not to translate - unique post-transcriptional requirements for the formation of upper cortical layers                               |
| 11:15 – 11:30 | T4 | <b>Freudenmacher L., Caspers S.</b><br><i>Duesseldorf and Jülich</i><br>Rotating field tracer electrophoresis: a novel method to increase neuronal tracing distance and speed in the postmortem human brain              |
| 11:30 – 11:45 | T5 | <b>Akol I., Vogel T.</b> <i>Freiburg</i><br>Multi-modal functions of FOXG1 in the mouse hippocampus  |
| 11:45 – 12:00 | T6 | <b>Mehlhorn J., Kurutas S., Caspers S., Amunts K., Herold C.</b> <i>Düsseldorf and Jülich</i><br>Adult neurogenesis in the telencephalon of the pigeon ( <i>Columba livia f.d.</i> ) is influenced by spatial experience |

|                      |   |  |
|----------------------|---|--|
| <b>10:30 – 12:00</b> | <b>Session: Cell and developmental biology</b><br>(Oskar-Hertwig-Hörsaal) |  |
| 10:30 – 10:45        | T7  | <b>Grand K., Stoltz M., Kaminski M., Thomas Naert T., Salinas G., Rizzo L., Pichler R., Lienkamp S.</b> <i>Zürich, Freiburg, Berlin and Göttingen</i><br>HNF1B alters an evolutionary conserved nephrogenic program of target genes in congenital kidney disease                         |
| 10:45 – 11:00        | T8  | <b>Kliewe F., Hammer E., Amling T., Hollemann J., Weber C., Amann K., Daniel C., Völker U., Endlich N.</b> <i>Greifswald and Erlangen</i><br>Zyxin is important for cell adhesion of cultured podocytes under mechanical stress  |
| 11:00 – 11:15        |   | <b>A.G Newman, J. Sharif, P. Bessa, S. Zaqout, J. Brown, M. Nakayama, S. Mueller, P. Böhm-Sturm, O. Ohara, H. Koseki, P.B. Singh, V. Tarabykin</b> <i>Berlin</i><br>HP1 deficiency results in De-Repression of Endogenous Retroviruses and Induction of Neurodegeneration via Complement |
| 11:15 – 11:30        | T10   | <b>Fuchs M., Radeva M. Y., Spindler V., Vielmuth F., Kugelmann D., Waschke J.</b> <i>Munich, Basel</i><br>Cytoskeletal anchorage of different Dsg3 pools revealed by combination of hybrid STED/SMFS-AFM   |

|                      |  |
|----------------------|--|
| 11:30 – 11:45        | T11 <b>Keshavarz M., Faraj Tabrizi S., Ruppert A.-L., Pfeil U., Schreiber Y., Brandenburger I., Lochnit G., Bhushan S., Perniss A., Deckmann K., Meiners M., Rafiq A., Thomas D., Oberwinkler J., Chubanov V., Gudermann T., Gärtner U., Offermanns S., Schütz B., Kummer W.</b><br><i>Giessen, Marburg, Frankfurt, Bad Nauheim and München</i><br>Cysteinyl leukotrienes and acetylcholine are biliary tuft cell cotransmitters |
| 11:45 – 12:00        | T12 <b>Schiecke A., Ewe A., Aigner A., Riecken K., Schumacher U., Wicklein D.</b><br><i>Hamburg, Leipzig and Marburg</i><br>Peritoneal carcinomatosis formation of human pancreatic cancer depends on integrin expression in vivo  |
| <b>12:00 – 13:00</b> | <b>Lunch</b>   |
| <b>13:00 – 15:00</b> | <b>Poster session 1 (dissection rooms)</b>   |

# PLASTINATIONS- WORKSHOPS

IN HEIDELBERG  
Mai & September 2023



**S 10**  
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Standard Technik

Weitere Informationen  
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**15:00 – 17:00**      **Session, Main topic 3: Excitation and inhibition in cortical circuits**  
(Friedrich-Kopsch-Hörsaal)

|               |     |  |
|---------------|-----|--|
| 15:00 – 15:30 | T55 | <b>Sprekeler H.</b> <i>Berlin</i><br>Neocortical microcircuits for information processing  |
| 15:30 – 15:45 | T56 | <b>Planert H.</b> <i>Berlin</i><br>Intraindividual cellular and synaptic heterogeneity of human layer 2-3 pyramidal neurons  |
| 15:45 – 16:00 | T13 | <b>Krueger-Burg D.</b> <i>Mainz</i><br>Inhibitory synapse diversity in health and disease  |
| 16:00 – 16:15 | T14 | <b>Özgür Erat M., Staiger J.</b> <i>Göttingen</i><br>Differential innervation of VIP neuron subtypes by basket cells in layer2/3 of mouse primary somatosensory cortex                                       |
| 16:15 – 16:30 | T15 | <b>Grosser S.</b> <i>Berlin</i><br>Parvalbumin interneurons are differentially connected to principal cells in inhibitory feedback microcircuits along the dorsoventral axis of the medial entorhinal cortex |
| 16:30 – 16:45 | T16 | <b>Anstötz M., Maccaferri G.</b> <i>Düsseldorf and Chicago</i><br>Unique properties and networks of Cajal-Retzius cells in the entorhinal cortex   |

|                      |     |   |
|----------------------|-----|---|
| 16:45 – 17:00        | T17 | <b>Lenz M., Kruse P., Eichler A., Stöhr P., Straehle J., Turko P., Vida I., Beck J., Vlachos A.</b> <i>Freiburg and Berlin</i><br>Homeostatic synaptic plasticity recruits coordinated structural and functional changes in the human brain |
| <b>15:00 – 17:00</b> |     | <b>Session, Main topic 4: Clinical anatomy – the framework for innovation</b><br>(Oskar-Hertwig-Hörsaal)  |
| 15:00 – 15:15        | T18 | <b>Lin A. C., Hammer N.</b> <i>Graz</i><br>Mechanical properties of Achilles tendon and metabolites of exercise   |
| 15:15 – 15:30        | T19 | <b>Wolf-Vollenbröker M., Piermaier L., Filler T., mon O'Dey D.</b> <i>Düsseldorf and Aachen</i><br>Ramification of the dorsal clitoral nerve along its course on the human clitoris   |
| 15:30 – 15:45        | T20 | <b>Stötzel K., Viebahn C.</b> <i>Göttingen</i><br>Chances and challenges in provenance research on human remains of Blumenbach's and the anthropological collection at Göttingen University   |
| 15:45 – 16:00        | T21 | <b>Domagala Z., Janczura A., Wanat M., Wiglusz K., Grajzer M., Simmons J., Domanski J.</b> <i>Wrocław and Bellefonte</i><br>Microbiological evaluation of selected historical anatomical specimens  |

- 16:00 – 16:15    T22 **Sehn M. Berlin**  
Perfect cut- how surgery and anatomy  
can team up for top edge education
- 16:15 – 16:30    T23 **Schulte W. Berlin**  
Functional limitations after pelvic floor  
surgery - what we can learn from  
anatomy
- 16:30 – 16:45    T24 **Witzel C. Berlin**  
Precise knowledge of detailed anatomy:  
source for reliable surgical strategies

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|---------------|---|
| 17:15 – 18:15 | <b>Keynote lecture: Clinical anatomy – the framework for innovation</b><br>(Friedrich-Kopsch-Hörsaal)   |
| K2            | <b>Peter A. Winkler, Salzburg</b><br>Anatomy from the neurosurgeons perspective – concept of a research laboratory for microsurgical and endoscopical neuroanatomy as didactical and translational model. |
| 19:15         | <b>Conference dinner</b><br>Panoramapunkt Potsdamer Platz   |

## Thursday, 22nd September

|              |   |
|--------------|---|
| 9:00 – 11:30 | <b>Anatomical Society symposium - Connective tissue: form, function, fixing and fabrication I</b><br>(Friedrich-Kopsch-Hörsaal) |
| 9:00 – 9:10  | <b>Simon Parson, Aberdeen / Jens Waschke, Munich / Ingo Bechmann, Leipzig / Fabio Quondamatteo, Dublin</b><br>Welcome           |

|               |     |   |
|---------------|-----|---|
| 9:10 – 9:40   | K3  | <b>Keynote lecture</b><br><b>Peter Bruckner, Münster</b><br>Suprastructures of extracellular matrices:<br>paradigms of functions controlled by<br>aggregates, not molecules |
| 9:40 – 10:00  | T67 | <b>Hannah Shaw, Cardiff</b><br>Introduction to normal enthesis anatomy<br>& dedication to Mike Benjamin   |
| 10:00 – 10:30 |     | <b>Coffee break</b>   |
| 10:30 – 10:50 | T68 | <b>Ciara Murphy, Dublin</b><br>Development of Therapeutic Platforms<br>for Osteoporotic Impaired Vertebral Bone<br>Regeneration   |
| 10:50 – 11:10 | T69 | <b>Flora Gröning, Aberdeen</b><br>Microstructure and mechanics of the<br>periodontal ligament   |
| 11:10 – 11:30 | T70 | <b>Sarah Snelling Oxford</b><br>Studying healthy tendons using single cell<br>technologies  |

|                      |   |   |
|----------------------|---|---|
| <b>10:30 – 11:30</b> | <b>Session: Cell biology</b><br>(Oskar-Hertwig-Hörsaal) |   |
| 10:30 – 10:45        | T57   | <b>Butz E. S., Radeva M. Y., Neubauer J., Hiermaier M., Horn A. K. E., Schmitz C., Vuopala K. S., Kuismin O., Schlegel N., Kugelmann D., Waschke J.</b> <i>München and Würzburg, Rovaniemi and Oulu</i><br>Inflammatory Bowel Disease caused by desmoglein 2 cytoplasmic truncation   |
| 10:45 – 11:00        | T25   | <b>Sigmund A., Winkler M., Engelmayr S., Egu D., Kugelmann D., Radeva M., Bayerbach F., Kotschi S., Yeruva S., Hiermaier M., Vielmuth F., Waschke J.</b> <i>München</i><br>A new plakoglobin-phosphodeficient mouse models reveals that plakoglobin regulation is important for epidermal integrity via keratin anchorage of desmosomes |
| 11:00 – 11:15        | T26   | <b>Tohidnezhad M., Kubo Y., Jesus Abraham Herrera Gonzalez J. A. , Kießling F., Pahlavani H., Symanski K., Zylenas G., Beckmann R., Mohammad Mirzaali Mazandarani , Fragoulis A., Jahr H., Pufe T.</b> <i>Aachen, Delft</i><br>Nrf2 loss correlates with progression of age-related osteoporosis in women                               |

|                      |     |  |
|----------------------|-----|--|
| 11:15 – 11:30        | T27 | <b>Kleefeldt F., Reimer A., Bömmel H., Rückschloß U., Ergün S. Würzburg</b><br>TNF-α-mediated CEACAM1 expression in endothelial cells  |
| <b>11:30 – 12:30</b> |     | <b>Lunch</b>   |
| <b>12:30 – 14:30</b> |     | <b>Poster session 2</b> (dissection rooms)   |
| <b>14:30 – 15:00</b> |     | <b>Anatomical Society symposium - Connective tissue: form, function, fixing and fabrication II</b><br>(Friedrich-Kopsch-Hörsaal)       |
| 14:30 – 15:00        | K4  | <b>Keynote lecture</b><br><b>Gundula Schulze-Tanzil, Nürnberg</b><br>Challenges in anterior cruciate ligament (ACL) tissue engineering |
| 15:00 – 15:20        | T71 | <b>Shane Browne, Dublin</b><br>Engineered matrices for musculoskeletal tissue regeneration   |
| 15:20 – 15:40        | T72 | <b>Jeremy Mortimer, London</b><br>Tendon repair using decellularisation  |

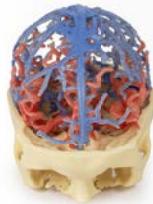
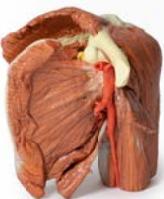
- 15:40 – 16:00      T73 **Jennifer Paxton, Edinburgh**  
                          Making Connections: Anatomical design  
                          for musculoskeletal tissue engineering
- 16:00 – 16:20      T74 **Patricia Medesan, Edinburgh**  
                          A Change of Perspective: Soft Biomaterials as  
                          Bone Anchors for Investigating the  
                          Regeneration at the Bone-Tendon Interface
- 16:20 – 16:30      **Simon Parson, Aberdeen / Jens Waschke,  
                          München / Ingo Bechmann, Leipzig /  
                          Fabio Quondamatteo, Dublin**  
                          Closure

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|----------------------|---|
| <b>14:30 – 16:30</b> | <b>Session, Main topic 1: Curriculum, teaching and assessment</b><br>(Oskar-Hertwig-Hörsaal)  |
| 14:30 – 14:45        | T58 <b>Schaub T. Berlin</b><br>Gender Diversity in anatomical teaching  |
| 14:45 – 15:00        | T59 <b>Antipova V., Fellner F., Löffler S., Manhal S., Ondruschka B., Pretterklieber M., Siwetz M., Wree A., Hammer N.</b> <i>Graz, Linz, Leipzig, Hamburg and Rostock</i><br>A comparison on the suitability of Ethanol-glycerin and Thiel fixation for undergraduate medical training |
| 15:00 – 15:15        | T60 <b>Steinborn A., Bulheller G., Brunk I. Berlin</b><br>Evaluation of the (clinical) relevance of gross anatomical education for dental students and practicing oral surgeons in Berlin   |
| 15:15 – 15:30        | T61 <b>Bilella A., Link K., Filgueira L., Eppler E.</b> <i>Fribourg and Bern</i><br>Body painting, ultrasound, clinical investigation and peer-teaching: a student-centered combined approach to enhance musculoskeletal anatomy learning integrated in a reformed medical curriculum   |

|               |     |  |
|---------------|-----|--|
| 15:30 – 15:45 | T62 | <b>Bauer F., Hennigsen L., Nonnenbroich L., Tandon A., Wakefield E., Vertemati M., Kachlik D., Brassett C., Nawrotzki R.</b><br><i>Heidelberg, Cambridge, Milano and Prague</i>                                  |
|               |     | The Summer School of Anatomy-Based Sonography in Heidelberg (SASH): Opportunities and challenges in partnering with European universities  |
| 15:45 – 16:00 | T63 | <b>Niedermaier J., Antipova V., Manhal S., Siwetz M., Wimmer-Röll M., Hammer N., Fellner F.</b> <i>Linz and Graz</i><br>On the added benefit of virtual anatomy for dissection-based skills                      |
| 16:15 – 16:30 | T64 | <b>Eggimann F., Gascho D., Mergen V., Lier N., Lienkamp S.</b> <i>Zürich</i><br>3D-printing a skull for teaching. Is it feasible?  |
| 16:00 - 16:15 | T65 | <b>Jonas Keiler</b> <i>Rostock</i><br>Lactic acid as a non-toxic and non-carcinogenic substitute for tissue fixation in biomedicine – promising experimental results for histochemistry and immunohistochemistry |

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**14:30 – 16:30**      **Session: Young investigators**  
(Virchow-Hörsaal)

- 14:30 – 14:37      T28 **Haider M.-T., Freytag V., Krause L., Schumacher U., Lange T. Hamburg**  
Investigating the mechanisms of prostate cancer bone metastasis – optimization of current in vivo models and detection methods
- 14:37 – 14:44      T29 **Hellmund C., Hepp P., Steinke H. Leipzig**  
The subpopliteal fat body
- 14:44 – 14:51      T30 **Nöth V., Boeckers T. M., Catanese A. Ulm**  
An uncharacterized human bone marrow derived peptide positively modulates synaptic plasticity of primary neurons
- 14:51 – 14:58      T31 **Voelz C., Ebrahimi N., Zhao W., Slowik A., Beyer C., Zendedel A. Aachen**  
Expression and putative role of inflammatory-related miRNAs during acute CNS injury
- 15:00 – 15:07      T32 **Herburg L., Rhein M., Kubinski S., Grothe C. Hannover**  
Chronic voluntary alcohol consumption alters promoter methylation and expression of Fgf-2 and Fgfr1 in a region-specific manner of the mouse brain
- 15:07 – 15:14      T33 **Vanrkriegelsvenne E., Kipp M., Joost S. Rostock**  
Regional heterogeneity in human meninges

- 15:14 – 15:21 T34 **Frintrop L., Gabloffsky T., Gill S., Staffeld A., Kipp M. Rostock**  
Food restriction in early adolescent mice induces hyperactivity, amenorrhea and food-anticipatory activity
- 15:21 – 15:28 T35 **Quabs J., Bittner N., Jockwitz C., Caspers S. Düsseldorf**  
Structural connectivity differences reflect microstructural heterogeneity of the human insular cortex
- 15:30 – 15:37 T36 **Gasterich N., Bohn A., Sesterhenn A., Nebelo F., Fein L., Kaddatz H., Nyamoya S., Kant S., Kipp M., Weiskirchen R., Zendedel A., Beyer C., Clarner T. Aachen and Rostock**  
Lipocalin 2 attenuates oligodendrocyte loss and immune cell infiltration in mouse models for multiple sclerosis
- 15:37 – 15:44 T37 **Aly A., Boeckers T., Catanese A. Ulm**  
Synaptic alterations drive motor neuron degeneration in ALS
- 15:44 – 15:51 T38 **Steinert L., Didona D., Möbs C., Hertl M., Waschke J., Vielmuth F. München and Marburg**  
Desmosomal hyper-adhesion protects keratinocytes from pemphigus autoantibody-induced loss of intercellular adhesion and partially blocks direct inhibition of desmoglein interactions

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| 15:51 – 15:58 | T39 | <b>Kepser L.-J. Köln</b><br>CAP2-dependent actin dynamics controls myofibril differentiation and SRF activity during skeletal muscle development in mice   |
| 16:00 – 16:07 | T40 | <b>Turko P. Berlin entfällt</b><br>Glial secreted factors regulate neuronal gene expression and function   |
| 16:07 – 16:14 | T41 | <b>Eichler A., Kleidonas D., Turi Z., Kirsch M., Pfeifer D., Masuda T., Prinz M., Lenz M., Vlachos A. Freiburg and Fukuoka</b><br>Microglia mediate synaptic plasticity induced by transcranial magnetic stimulation |
| 16:14 – 16:21 | T42 | <b>Moztarzadeh S., Radeva M. Y., Sepic S., Hamad I., Waschke J., García-Ponce A. München</b><br>Cortactin is required for endothelial barrier enhancement through cAMP-mediated Rac1 activation                      |

**17:00 – 20:00**

**General assembly  
Anatomische Gesellschaft  
(Friedrich-Kopsch-Hörsaal)**



# Friday, 23rd September

|               |    |  |
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| 9:00 – 10:00  |    | <b>Keynote lectures: Structure and function in the cardiopulmonary system</b><br>(Friedrich-Kopsch-Hörsaal)                  |
| 9:00 – 9:30   | K6 | <b>Rory Morty, Heidelberg</b><br>How do microRNAs (de)regulate the development of the lung architecture?                     |
| 9:30 – 10:00  | K7 | <b>Christina Brandenberger, Berlin</b><br>The impact of aging on pulmonary structure and function in injury and regeneration |
| 10:00 – 10:30 |    | <b>Coffee break</b>  |
| 10:30 – 12:30 |    | <b>Session, Main topic 6: Structure and function in the cardiopulmonary system</b><br>(Friedrich-Kopsch-Hörsaal)             |

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| 10:30 – 10:45 | T43 | <b>Perniss A., Thiel M., Tonack S., Keshavarz M., PoharkarK., Wiegand S., Pfeil U., Schütz B., Offermanns S., Kummer W.</b> <i>Giessen, Bad Nauheim and Marburg</i><br>Succinate enhances mucociliary clearance in the murine tracheal epithelium by triggering acetylcholine release from chemosensory cells  |
| 10:45 – 11:00 | T44 | <b>Hollenhorst M. I., Nandigama R., Evers S. B., Abdel Wadood N., Salah A., Wyatt A., Nadolni W., Burow W., Flockerzi V., Gudermann T., Bischoff M., Zierler S., Chubanov V., Boehm U., Krasteva-Christ G.</b> <i>Homburg, Wuerzburg, Munich and Linz</i><br>Activation of tracheal epithelial brush cells leads to protective immune responses via stimulation of brush cell approaching sensory nerves |
| 11:00 – 11:15 | T45 | <b>Schipke J., Kuhlmann S., Fassbender S., Hegermann J., Kühnel M., Jonigk D., Mühlfeld C.</b> <i>Hannover</i><br>Lipofibroblasts in structurally normal, fibrotic and emphysematous human lungs   |

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| 11:15 – 11:30 | T46 | <b>Lettau M., Timm S., Dittmayer C., Lopez-Rodriguez E., Ochs M.</b> <i>Berlin</i><br>The ultrastructural heterogeneity of lung surfactant revealed by serial section electron tomography: Insights into the 3-D architecture of human tubular myelin  |
| 11:30 – 11:45 | T47 | <b>Rößler G., Appuhn S., Morty R., Myti D., Salaets T., Gie A., Regin Y., Toelen J., Mühlfeld C.</b> <i>Hannover, Heidelberg and Leuven</i><br>Alveolarization and microvascular development in the preterm rabbit and term mouse hyperoxia model of bronchopulmonary dysplasia                    |
| 11:45 – 12:00 | T48 | <b>Shoykhet M., Dervishi O., Menauer P., Hiermaier M., Osterloh C., Ludwig R., Waschke J., Yeruva S.</b> <i>München and Lübeck</i><br>EGFR inhibition led ROCK activation enhances desmosome assembly and cohesion in cardiomyocytes   |
| 12:00 – 12:15 | T49 | <b>Schinner C., Xu L., Franz H., Zimmermann A., Wanuske M.-T., Rathod M., Hanns P., Geier F., Pelczar P., Lorenz V., Kuster G., Spindler V.</b> <i>Basel</i><br>Inhibition of the integrin- $\alpha$ V $\beta$ 6/TGF $\beta$ cascade as novel treatment strategy for arrhythmogenic cardiomyopathy |
| 12:15 – 12:30 | T67 | <b>Trevorrow P.</b> <i>Chichester</i><br>A new era in Open Research: The evolution of academic publishing  |

**10:30 – 12:30**

**Session: Neuroscience**

(Oskar-Hertwig-Hörsaal)

- 10:30 – 10:45      T50    **Wiegreffe C., Wahl T., Joos N., Bonnefont J., Liu P., Britsch S.** *Ulm, Brüssel and Hong Kong*  
Developmental cell death of cortical projection neurons is regulated by a Bcl11a/Bcl6/Foxo1-dependent pathway
- 10:45 – 11:00      T51    **Rocca E., Ragancokova D., Firestein B., Müller T., Wende H., Garratt A.** *Oslo, Köln, Berlin and Leverkusen, Piscataway*  
Teashirt1 controls the differentiation and layering of embryonic olfactory bulb granule cell neurons
- 11:00 – 11:15      T52    **Zheng H., Gangadharan V., Helmstädtter M., Kuner R., Kuner T.** *Heidelberg and Frankfurt am Main*  
Weakly-supervised spatio-temporal learning and causal analysis reveals anatomical basis of neuropathic pain
- 11:15 – 11:30      T53    **Neckel P., Scharr M., Scherer S., Hirt B.** *Tübingen*  
R-Spondin1-LGR5/6 signaling - a new player in neuronal differentiation in the enteric nervous system?

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| 11:30 – 11:45        | T54 | <b>Schneider N., Lugani S., Strahle C., Cambridge S.</b> <i>Heidelberg and Frankfurt am Main</i><br>Paradoxical effects of acute ethanol exposure on neuronal morphology   |
| 11:45-12:00          | T66 | <b>Joost S., Manzhula K., Baumann L., Greiner T., Runge J., Keiler J., Kipp M.</b> <i>Rostock</i><br>A Novel glial barrier structure of the choroid plexus: the glialimitans perichoroidalis   |
| 12:00-12:15          | T67 | <b>Schubert M., Pelz A., Trautmann G., Block K., Furlan S., Gutsmann M., Köhler S., Volpe P., Blottner D., Meisel A., Salanova M.</b> <i>Berlin</i> ,<br>Opposite regulation of Homer signal at the NMJ postsynaptic micro domain between slow- and fast-twitch muscles in an experimentally induced autoimmune myasthenia gravis (EAMG) mouse model |
| <b>12:45 – 13:15</b> |     | Awards and Closing ceremony<br>(Friedrich-Kopsch-Hörsaal)  |

# PERFEKTE KNOCHEN- ENTFETTUNG

Mit neu definierten & zukunftsorientierten Technologien



## Worin liegt Ihr Nutzen?

### Warum nennen wir es „perfekt“?

- + Maximale Tiefenentfettung der Knochen durch Vakuumtechnik unter Verwendung von Methylchlorid
- + Sehr niedrige Behandlungstemperaturen
- + Optimale Trocknung durch Vakuumtechnik

## Wirtschaftlicher und sicherer Reinigungsprozess

- + Kurze Chargenzeiten, abhängig von der Knochenart und dem Knochenalter
- + Geringer Lösemittelverbrauch, nahezu Null



- + Individuelle Chargengrößen verfügbar, angepasst an die maximale Knochengröße
- + Arbeitssicherheit und Umweltschutz nach Industriestandard unter Beachtung gültiger Gesetze ( VOC, BlmSchG, WHG)

# Poster

## Biomaterials

| Number | Title  | Authors  | Cluster | Room     | Date   | Time  |
|--------|--|--|---------|----------|--------|-------|
| 051    | Marine Bone Graft Biomaterial from coccoliths  | Neele Kettler, Johanna Zander, Clemens Posten, Thomas Pufe, Mersedeh Tohidnezhad   | VI      | Reichert | 21.09. | 14:00 |
| 052    | In vivo Ligamentogenesis in Embroidered Poly(lactic-co-ε-caprolactone) / Polylactic Acid Scaffolds Functionalized by Fluorination and Hexamethylene Diisocyanate Cross-Linked Collagen Foams | Maria Kokozidou, Clemens Gögele, Felix Pirrung, Niels Hammer, Christian Werner, Benjamin Kohl, Judith Hahn, Annette Breier, Michaela Schröpfer, Gundula Schulze-Tanzil | VI      | Reichert | 21.09. | 14:00 |

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|-----|--|--|----|----------|--------|-------|
| 053 | Using three-dimensional in vitro cultures in medical device testing. | Maximilian Koblenzer, Felix Waldmann, Marek Weiler, Stephan Rütten, Thomas Pufe, Holger Jahr | VI | Reichert | 21.09. | 14:00 |
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## Cell Biology

| Number | Title   | Authors  | Cluster | Room   | Date   | Time  |
|--------|---|--|---------|--------|--------|-------|
| 031    | Interaction of megalin and FcRn during endocytosis                              | Yaman Anan, Eileen Dahlke, Lea Klie, Franziska Theilig   | VII     | Müller | 21.09. | 14:00 |
| 032    | SARS-CoV-2 spike protein variants interact differently with human receptor ACE2 | Eileen Socher, Lukas Heger, Friedrich Paulsen, Heinrich Sticht, Friederike Zunke, Philipp Arnold | VII     | Müller | 21.09. | 14:00 |

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|-----|---|--|-----|--------|--------|-------|
|     | Reelin and glioblastoma - evidence that Reelin modulates gap junction activity in tumor cells                                     | Franco Corvace, Eckart Förster   | VII | Müller | 21.09. | 14:00 |
| 033 | Thermosensitive TRP channels in the meibomian gland   | Melina Keller, Fabian Garreis, Friedrich Paulsen   | VII | Müller | 21.09. | 14:00 |
| 034 | CRISPR Cas9-targeted Myostatin deletion improves myogenic differentiation and increases muscle mass of muscle stem cells in mouse | Mohamed I. Elashry, Victoria C. Schneider, Manuela Heimann, Michele C. Klymiuk, Sabine Wenisch, Stefan Arnhold | VII | Müller | 21.09. | 14:00 |

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| 036 | Urethral chemosensory cholinergic cells express components of the leukotriene- and prostaglandin-synthesis pathway           | Moritz Nikolaus Gröper,<br>Maryam Keshavarz,<br>Alexander Perniss,<br>Wolfgang Kummer, Klaus Deckmann | VII | Müller   | 21.09. 14:00 |
| 068 | Loss of Desmoglein 3 does not profoundly alter epidermal differentiation in reconstructed human epidermis                    | HVivien Beyersdorfer1,<br>Marie-Thérèse Wanuske1, Chiara Stüdle1, Volker Spindler1                    | III | Reichert | 21.09. 13:00 |
| 069 | The potential role of SP-G and PLUNC in tumor pathogenesis and wound healing in the human larynx respectively the vocal fold | Aurelius Scheer,<br>Friedrich Paulsen, Lars Bräuer, Martin Schicht,<br>Antoniu-Oreste Gostian         | III | Reichert | 21.09. 13:00 |

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| 037 | Stimulation of tracheal epithelial brush cells with denatonium influences cAMP-dependent transepithelial ion transport and cholinergic signalling | Maxim Zimmer (Institute of Anatomy and Cell Biology, Saarland University, Homburg), Mohamed I. Elhawy (Institute of Anatomy and Cell Biology, Saarland University, Homburg), Saskia B. Evers (Institute of Anatomy and Cell Biology, Saarland University, Homburg), Praveen Kumar, Thomas Gudermann, Vladimir Chubanov, Ulrich Boehm, Gabriela Krastera-Christ, Monika I. Hollenhorst | Müller<br>VII<br>21.09. 14:00 |
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| 038 | The rare villin-expressing cell of the murine lower airway is a neuroendocrine rather than a brush cell       | Wafaa Mahmoud,<br>Alexander Perniss, Krupali Poharkar, Maryam Keshavarz, Ulrich Gärtner, Burkhard Schütz, Thomas Wozfeld, Stefan Offermann, Wolfgang Kummer         | VII  | Müller | 21.09. 14:00 |
| 039 | Neurodevelopmental Cohen syndrome and VPS13B  | Xuanyu Huang, Julia Knop, Wenke Seifert   | VIII | Müller | 21.09. 14:00 |
| 040 | The influence of calcitriol and calcipotriol on podocyte differentiation <i>in situ</i> and <i>in vitro</i> . | Tim Lange, Stefan Simm, Marie-Christin Ristov, Elke Hammer, Neetika Nath, Andreas W. Kuss, Maja Lindemann, Clemens D. Cohen, Sheraz Gul, Uwe Völker, Nicole Endlich | VII  | Müller | 21.09. 14:00 |

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|-----|---|---|-----|----------|--------|-------|
|     | VIP-receptor type 1 regulates inflammation and oxLDL-uptake in human M1/M2-macrophages                | Anja Schwarz, Lilli Mey, Gabriel A. Bonaterra, Ralf Kinscherf             | III | Reichert | 21.09. | 13:00 |
| 061 | Sox9 deficiency induced by Nrf2 KO impairs chondrogenesis and promotes gender-specific osteoarthritis | Gabriele Zylenas, Yusuke Kubo, Thomas Pufe Mersedeh Tohidnezhad           | III | Reichert | 21.09. | 13:00 |
| 062 | C1q-TNF-related-peptides 1, 6 and 8 promote corneal wound healing by targeting relaxin receptor RXFP1 | Hagen Fabian Nicolaus, Friedrich Paulsen, Thomas Klonisch, Fabian Garreis | III | Reichert | 21.09. | 13:00 |

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| 064 | Role of ADAM10 in pemphigus vulgaris   | Daniela Kugelmann, Maresa Anders, Anna M. Sigmund, Desalegn T. Egu, Jens Waschke                        | III | Reichert | 21.09. | 13:00 |
| 065 | Gephyrin modulates the turnover of connexin 43 in non-neuronal cells   | Peter Truckenmueller, Ingeborg Vogel, Francisca Stappers, Nina Ullrich, Joachim Kirsch, Ralph Nawrotzki | III | Reichert | 21.09. | 13:00 |
| 066 | Ultrastructural characterization of the cellular contacts between alveolar epithelial type 2 cells and fibroblasts | Supak Panpeng, Julia Schipke, Christoph Wrede, Lars Knudsen   | III | Reichert | 21.09. | 13:00 |
| 067 | Dsg1 and Dsg3 composition of desmosomes across human epidermis and alterations in                                  | Thomas Schmitt, Jens Waschke  | III | Reichert | 21.09. | 13:00 |

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|     | pemphigus vulgaris patient skin  |   |     |        |        |       |
| 101 | Bovine mammary epithelial cells in vitro - the future of milk production?  | Annekatri Bonack, Johanna Plendl, Salah Al Masri                          | XII | Müller | 22.09. | 12:30 |
| 102 | Immuno-electron microscopy of the extracellular matrix   | Heike Heilmann, Imre Vida, Agnieszka Münster-Wandowski                    | XII | Müller | 22.09. | 12:30 |
| 103 | Adult rat proximal femoral head epiphysis cartilage as ex vivo and in vitro model: a novel methodological approach | Gundula Schulze-Tanzil, Christian Werner, Teresa Schotte, Maria Kokozidou | XII | Müller | 22.09. | 12:30 |

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|     |  | Michele C. Klymiuk,<br>Manuela Heimann,<br>Mohamed I. Elashry, Sabine<br>Wenisch, Stefan Arnhold       | XII   | Müller | 22.09. | 12:30  |
| 104 | Next-generation-analysis of equine mesenchymal stem cell secreted small extracellular vesicles | Comparative characterization of human meibomian glands and sebaceous glands using different biomarkers | Yuqiuhe Liu, Jana Dietrich,<br>Fabian Garreis, Friedrich<br>Paulsen                             | XII    | Müller | 22.09. |
| 105 |  | Solitary chemosensory cells in the respiratory tract of man  | Dima Hamarsheh, Krupali<br>Poharkar, Alexander<br>Perniss, Maryam Keshavarz,<br>Wolfgang Kummer | XII    | Müller | 22.09. |
| 106 |  |  |   |        |        | 12:30  |

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|     | Katharina Block, Gabor Trautmann, Sabine Grosser, Martina Gutsmann, Imre Vida, Dieter Blötzner, Michele Salanova               | XII  | Müller | 22.09. | 12:30  |
| 107 | The neuromuscular junction (NMJ) in vitro as an experimental model to study molecular mechanisms of neuromuscular transmission |  |        |        |        |
| 108 | CEACAM1 metabolism in aortic endothelial cells   | Helke Bömmel, Werner Schmitz, Thati Madhusudhan, Süleyman Ergün, Srikanth Karnati  | XII    | Müller | 22.09. |
| 109 | A new 3D ex vivo eyelid slice culture model reveals the influence of melanocortins in meibomian glands                         | Ingrid Zahn, Vera Rötzer, Jens Waschke, Valerian Altersberger, Fabian Garreis, Martin Schicht, Yuqiuhe Liu, Jana Dietrich, Friedrich Paulsen | XII    | Müller | 22.09. |

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|-----|--|---|-----|--------|--------|-------|
|     | Ultrastructural changes of organoids from head and neck squamous cell carcinomas following irradiation | Anne-Sophie Fisch, Ingeborg Tinhofe-Keilholz, Johanna Plendl    | XII | Müller | 22.09. | 13:30 |
| 110 | Metalloprotease mepin BETA plays a minor role in fibrosis development in mouse colon                   | Wenjia Li, Ralph Lucius, Christoph Becker-Pauly, Philipp Arnold | XIV | Müller | 22.09. | 12:30 |
| 131 | Unraveling the potential of a disintegrin and metalloproteinases (ADAM) in retinoblastoma              | Dario Van Meenen, Oliver Dräger, Maike Busch, Nicole Dünker     | XIV | Müller | 22.09. | 12:30 |

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|-----|---|--|-----|--------|--------|-------|
|     | Mechanisms causing acantholysis in pemphigus-lessons from human skin  | Desalegn Egu, Thomas Schmitt, Jens Waschke   | XIV | Müller | 22.09. | 12:30 |
| 133 | Depletion of CD44 impairs metastasis formation of colorectal cancer by reducing hypoxia-mediated EMT induction in xenograft primary tumors <i>in vivo</i> | Hanna Maar, Arun Everest-Dass, Stepan Nersisyan, Diana Maltseva, Victor Novosad, Vera Freytag, Malte Kriegs, Linda Krause, Alexander Tonevitsky, Udo Schumacher, Daniel Wicklein, Tobias Lange | XIV | Müller | 22.09. | 12:30 |
| 134 | CRISPR/Cas9 screening identified HDAC3 and KLF5 as novel regulators of desmosomal adhesion  | Henriette Franz, Chiara Stüdle, Marion Scheibe, Enno Schmidt, Volker Spindler  | XIV | Müller | 22.09. | 12:30 |

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|     |   | Maitreyi Rathod, Marie-Thérèse Wanuske, Henriette Franz, Vivien Beyersdorfer, Chiara Stüdle, Volker Spindler | XIV  | Müller | 22.09. | 12:30  |
| 137 | Desmosomal adhesion and cytoskeleton dynamics are regulated non-canonically by Dolichyl-Phosphate Mannosyltransferase 1 (DPM1) through regulation of SERPINB5 | A Novel High-throughput Screen to Identify Modulators of Cell-cell Adhesion                                  | Pauline Hanns, Volker Spindler, Camilla Schinner | XIV    | Müller | 22.09. |
| 138 | Human cancer cells utilize various pro-adhesive ligands for endothelial adhesion <i>in vitro</i>  | Sarah Starzonek, Hanna Maar, Stefan Mereiter, Udo Schumacher, Tobias Lange                                   | XIV  | Müller | 22.09. | 12:30  |

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|     | Sofie Boscheck, Thiha Aung,<br>Christina Hackl, Silke<br>Haertelis   | XVIII  | Reichert | 22.09.   | 12:30           |
| 151 | Analysis of pancreatic<br>cancer cell line and<br>pancreatic cancer<br>biopsies in 3D in-vivo<br>tumor model |  |          |          |                 |
| 152 | Effect of LIPUS on<br>osteoblast function: 3D<br>in vitro study  | Anna Bodensiek, Yusuke<br>Kubo, Matthias Gatz,<br>Thomas Pufe, Mersedeh<br>Tohidnezhad   | XVIII    | Reichert | 22.09.<br>13:30 |
| 153 | The effects of LIPUS on<br>the proliferation and<br>differentiation of<br>MC3T3 cells; in vitro<br>study     | Domiziana Rampi, Sebastian<br>Lipross, Felix Waldmann,<br>Yusuke Kubo, Alexander<br>Slowik, Thomas Pufe,<br>Mersedeh Tohidnezhad | XVIII    | Reichert | 22.09.<br>13:30 |

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|     |  | Konstanze Stangner, Anna<br>Jungwirth, Daniela<br>Kugelmann, Matthias<br>Hiermaier, Sunil Yeruva | XVIII | Reichert | 22.09. | 13:30 |
| 154 | Cleavage of desmoglein 2 by catalytic autoantibodies as possible underlying pathomechanism in arrhythmogenic cardiomyopathy        | Sabrina Kubinski, Lena<br>Gaebel, Leonie Herburg,<br>Claudia Grothe                              | XVIII | Reichert | 22.09. | 13:30 |
| 155 | Alcohol consumption alters Fibroblast Growth Factor-2 signaling and expression of alcohol metabolizing enzymes in the murine liver | Lukas Clemens Böckelmann,<br>Florian Gebauer, Udo<br>Schumacher                                  | XVIII | Reichert | 22.09. | 13:30 |
| 156 | Continuous digital measurement of intratumoral fluid pressure revealing circadian oscillations                                     |  |       |          |        |       |

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|     | Mechanical stress and lysosomal increase in the development of Focal Segmental Glomerulosclerosis                       | Jessica Promnitz,<br>Makhabbat Saudenova,<br>Magdalena Westermann,<br>Felix Kliewe, Nicole Endlich,<br>Franziska Theilig           | XVIII | Reichert | 22.09. | 13:30 |
| 157 | Pemphigus Foliaceus Autoantibodies Induce Redistribution Primarily of Extradesmosomal Desmoglein 1 in the Cell Membrane | Matthias Hierlmaier, Daniela Kugelmann, Mariya Radeva, Dario Didona, Kamran Ghoreschi, Soliman Farzan, Michael Hertl, Jens Waschke | XVIII | Reichert | 22.09. | 13:30 |
| 158 | HNE Provokes Pancreatic Islets Cyto-architecture Alteration in Japanese Macaques.                                       | Piyakarn Boontem, Tatsuya Yamashita, Mizukoshi Eishiro, Tetsumori Yamashima  | XVIII | Reichert | 22.09. | 13:30 |
| 159 | Effects of puncalagin on osteosarcoma in the 3D in-vivo tumor model   | Anna Dorn, Thilha Aung, Silke Haerteis   | XVIII | Reichert | 22.09. | 13:30 |
| 160 |   |  |       |          |        |       |

## Developmental Biology

| Number | Title  | Authors  | Cluster | Room   | Date   | Time  |
|--------|--|--|---------|--------|--------|-------|
| 111    | Changes in hyaluronan distribution during mouse eye development  | Anja K. Hoffmann, Kristina Elsner, Ernst R. Tamm, Andrea E. Dillinger  | XII     | Müller | 22.09. | 12:30 |
| 112    | Increased Homer long isoforms expression and subcellular compartmentalization during myogenesis in vitro | Gabor Trautmann, Katharina Block, Sandra Furlan, Martina Gutzmann, Paola Lorenzon, Pompeo Volpe, Dieter Blottner, Michele Salanova | XII     | Müller | 22.09. | 12:30 |

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|     | Differential temporal development of alveoli and capillaries during bulk alveolarization of the rat lung        | Julia Werner, Andreas Schmiedl, Christian Mühlfeld                               | XII | Müller | 22.09. | 12:30 |
| 113 | Function of filopodia like protrusions in chicken embryos   | Margarethe Draga, Felicitas Pröls, Martin Scaal                                  | XII | Müller | 22.09. | 12:30 |
| 114 | Differentiation of olfactory placode organoide  | Moritz Klingenstein, Georg Karl Simon Frey, Stefan Liebau, Stefanie Klingenstein | XII | Müller | 22.09. | 12:30 |
| 115 | Modelling air-liquid interface cerebral organoids of SHANK3 deficient patients to study neural cell populations | Rakshita Pandey, Anne-Kathrin Lutz, Tobias M. Boeckers                           | XII | Müller | 22.09. | 12:30 |
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|     |   |  |     |        |              |
| 117 | Versican GAG- $\alpha$ domain deficiency causes developmental malformations of the retinal pigmented epithelium   | Andrea E. Dillinger, Anja K. Hoffmann, Nadine Bauer, Magdalena Schneider, Roswitha Seitz, Rudolf Fuchshofer, Ernst R. Tamm | XII | Müller | 22.09. 12:30 |
| 118 | Foxg1 Organizes Cephalic Ectoderm to Repress Mandibular Fate, Regulate Apoptosis, Generate Choanae, Elaborate the Auxiliary Eye and Pattern the Upper Jaw | Michael Depew, Claudia Compagnucci   | XII | Müller | 22.09. 12:30 |

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| 119 | Human neuro-mesodermal assembloids recapitulate aspects of peripheral nervous system development <i>in vitro</i> | Philip Wörsdörfer, Anna Rockel, Nicole Wagner, Süleyman Ergün | XII | Müller | 22.09. 12:30 |
| 120 | Role of BMPs for the development of the eye field  | Stephan Heermann  | XII | Müller | 22.09. 12:30 |
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## Experimental Morphology

| Number | Title  | Authors  | Cluster | Room   | Date   | Time  |
|--------|--|--|---------|--------|--------|-------|
| 021    | Glomerulopathy vs.<br>tubulopathy –<br>comparative<br>pathological and<br>functional analysis of<br>nephrotoxicity caused<br>by calcineurin<br>inhibitors in the rodent<br>model | Hasan Demirci, Suncica<br>Popovic, Kerim Mutig,<br>Sebastian Bachmann            | I       | Müller | 21.09. | 13:00 |
| 022    | Fibronectin deficiency<br>in newborn mice leads<br>to the loosening of the<br>interstitium and cysts<br>formation in the<br>kidney   | Kristina Elsner, Silke<br>Seibold, Leonie<br>Herrnberger-Eimer, Ernst R.<br>Tamm | I       | Müller | 21.09. | 13:00 |

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| 023 | Classifications of the monopodial bronchopulmonary vasculature – A cluster based verification approach                                   | Jonas Labode, Christian Dullin, Willi L. Wagner, Despoina Myti, Rory E. Morty, Christian Mühlfeld | – | Müller | 21.09. 13:00 |
| 024 | Morphological characterization of pyramidal neurons in the medial prefrontal cortex of CYLD knockout mouse model.<br><br><i>Abgesagt</i> | Lorenzo Mattioni, Leonardo Nardi, Giulia Treccani, Michael Schmeißer                              | – | Müller | 21.09. 13:00 |
| 025 | The importance of PLVAP for maintaining peritubular capillary integrity in the kidney  | Michelle C. Geigenfeind, Leonie Herrnberger, Ernst R. Tamm, Andrea E. Dillinger                   | – | Müller | 21.09. 13:00 |

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|-----|---|--|---|--------|--------|-------|
| 026 | The impact of hypoxia on the obese lung   | Sophia Pankoke, Christiane Pfarrer, Christian Mühlfeld, Julia Schipke  | - | Müller | 21.09. | 13:00 |
| 027 | The expression of surfactant proteins A and B during postnatal development of rat lung                          | Franziska Roeder, Lars Knudsen, Andreas Schmiedl   | - | Müller | 21.09. | 13:00 |
| 028 | Stereological and Functional Characterization in a Hyperoxic Preterm Rabbit Model of Bronchopulmonary Dysplasia | Henri Schulte, Christian Mühlfeld, Johanna Christine Jansing, Costanza Casiraghi, Francesca Ricci, Chiara Catozzi, Matthias Ochs, Fabrizio Salomone, Christina Brandenberger | - | Müller | 21.09. | 13:00 |
| 029 | Progression of lung injury during low volume ventilation in pre-injured lungs                                   | Richard Zimmermann, Franziska Roeder, Bradford J Smith, Lars Knudsen   | - | Müller | 21.09. | 13:00 |

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| 054 | Easily detectable morphological features of the superficial zone of bovine articular cartilage: identifying the base line for the development of a diagnostic tool for early osteoarthritic tissue degeneration | Florian Gellhaus, Greta Ahrens, Christine Desel, Peter Behrend, Bernd Rolauffs, Bodo Kurz | VII<br>Reichert | 21.09.<br>14:00 |
| 055 | Evaluation of correlation of articular cartilage staining for CILP-2 and DDR2 with histological tissue damage in patients with knee osteoarthritis: a pilot morphological study                                 | Taavi Torga, Siim Suutre, Kalle Kisand, Andres Arend, Marina Aunapuu                      | VII<br>Reichert | 21.09.<br>14:00 |

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| 056 | Application of artificial intelligence for quantification of angiogenesis  | Zaher Alshamy, Johanna Plendl, Sabine Kässmeyer                         | VI | Reichert | 21.09. 14:00 |
| 171 | Situs inversus - Macroscopic assessment and investigation of cerebral lateralization using manual and imaging techniques | Anja Boeckers, Michael Schön, Maximilian Leupold, Tobias Maria Boeckers | XI | Reichert | 22.09. 12:30 |

## Gross Anatomy / Clinical Anatomy / Cell Biology

| Number | Title  | Authors                     | Cluster | Room   | Date   | Time  |
|--------|--|-----------------------------|---------|--------|--------|-------|
| 001    | Study of the pterygomandibular space as a target point for inferior alveolar nerve block   | Artem Batov, Hadi Darawsheh | VII     | Müller | 21.09. | 14:00 |
| 002    | Determining the intramuscular course of nerve branches using the modified Sihler's technique – an overview of practical applications | Bettina Pretterkloiber      | VII     | Müller | 21.09. | 14:00 |

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|-----|--|---|-----|--------|--------|-------|
| 003 | Artificial neural network model for sex estimation based on mandibular measurements  | Diana Toneva, Silviya Nikolova, Gennady Agre, Dora Zlatareva  | VII | Müller | 21.09. | 14:00 |
| 004 | Morphological variability of peroneus tertius tendon as a possible factor in fractures of the fifth metatarsal – an anatomical study | Sam Augustine Kandathil, Stefan Alexander Bauer, Lena Hirtler | VII | Müller | 21.09. | 14:00 |
| 005 | Changes to the subtalar joint in neutral position, plantarflexion, dorsiflexion and non-invasive distraction                         | Sam Kandathil, Johannes Mittendorfer, Lena Hirtler            | VII | Müller | 21.09. | 14:00 |

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| 006 | Interclavicularis<br>anticus digastricus<br>muscle in a female<br>body donor  | Mona Roesler, Micheal<br>Schmeisser, Schumann Sven                      | VII | Müller | 21.09. | 14:00 |
| 007 | Suitability of Fix4Life<br>Cadavers for Medical<br>and Surgical Training<br>and Comparison with<br>Fresh Frozen and<br>Formalin-Fixed<br>Preservation Methods | Niklas Görnitz, Nadja Seidel  | VII | Müller | 21.09. | 14:00 |
| 008 | Morphological<br>Changes in the Striated<br>Muscle caused by<br>Components of the<br>Thiel Embalming<br>Method  | Adrian Reusser, Elisabeth<br>Eppler, Valentin Djonov,<br>Sebastian Halm | VII | Müller | 21.09. | 14:00 |

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|-----|--|---|-----|----------|--------|-------|
| 009 | Frequency of interclinoid bridging in Bulgarians   | Silviya Nikolova, Diana Toneva  | VII | Müller   | 21.09. | 14:00 |
| 057 | Tracing small extracellular vesicle uptake in equine mesenchymal stem cells by CFSE labeling | Julia Speer, Isabelle De Marco, Manuela Heimann, Michele Christian Klymiuk, Mohamed Elashry, Kristina Glenske, Sabine Wenisch, Stefan Arnhold | VI  | Reichert | 21.09. | 14:00 |
| 071 | Gelsolin modulates wound healing in patients with periodontal disease                        | Anabel Schröder, Mayte Buchbender, Matthias Pelka, Daniela Bohr, Lars Bräuer, Friedrich Paulsen, Martin Schicht                               | II  | Reichert | 21.09. | 13:00 |

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| 072 | Connexin 43 levels of equine adipose derived mesenchymal stem cells after treatment with Interleukin-1 $\beta$          | Isabelle De Marco, Julia Speer, Kristina Glenske, Manuela Heimann, Michele Klymiuk, Mohamed Elashry, Stefan Arnhold, Sabine Wenisch | II | Reichert<br>21.09. 13:00 |
| 073 | Degenerative respiratory skeletal muscle as a cofactor of neuromuscular respiratory dysfunction post Covid-19 infection | Laura Steingruber   | II | Reichert<br>21.09. 13:00 |

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|-----|---|--|----------|----------|--------------|
|     | Sergey Dydykin, Tatyana Khorobrykh, Natalia Mishchenko, Tatyana Bogoyavlenskaya   | II   | Reichert | 21.09.   | 13:00        |
| 074 | The concept of meso-esophageal excision and topographic-anatomical navigation in the surgical treatment of esophageal cancer. |  |          |          |              |
| 075 | Pubic symphysis during singular and twin pregnancies. A pilot study.  | Slawomir Wozniak, Aleksandra Piatek, Bozenna Kurc-Darak, Iwanna Lazarchuk, Maria Zazga, Zygmunt Domagala, Jerzy Florjanski | II       | Reichert | 21.09. 13:00 |

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|-----|--|---|----|----------|--------|-------|
|     | The orobasal organ (of Ackermann) in mammals – evolutionary considerations about a neglected organ | Moritz Staerber, Silke D Storsberg, Sven Schumann       | II | Reichert | 21.09. | 13:00 |
| 076 | Adipocyte size in lipoedema patients   | Erich Brenner   | II | Reichert | 21.09. | 13:00 |
| 077 | Morphofunctional Anatomy of Oropharyngeal Isthmus during Singing                                   | Marius Valeriu Hînganu, Delia Hînganu, Rareş Trăcicariu | II | Reichert | 21.09. | 13:00 |

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|     |  |  |    |          |                 |
| 079 | Large intestine<br>anatomy - modern<br>clinical applications | Slawomir Wozniak,<br>Krzysztof Grabowski,<br>Tomasz Pytrus, Radoslaw<br>Kempinski, Jerzy Florjanski,<br>Joanna Grzelak, Bozena<br>Kurc-Darak, Zygmunt<br>Domagala, Urszula Zaleska-<br>Dorobisz, Ivanna Lazarchuk,<br>Fabio Quondamatteo,<br>Friedrich Paulsen | II | Reichert | 21.09.<br>13:00 |
| 080 | Functions follows Form<br>- Microlaryngology                 | Rares Vasile Tracicaru,<br>Marius Valeriu Hînganu,<br>Delia Hînganu  | II | Reichert | 21.09.<br>13:00 |

|     |  |   |     |        |        |       |
|-----|--|---|-----|--------|--------|-------|
|     | The well known arterial variation Corona mortis is still an unpredictable source of bleeding at the pelvic inlet – an anatomical study | René Heichinger, Michael Pretterklaiber, Niels Hammer, Bettina Pretterklaiber   | XVI | Müller | 22.09. | 13:30 |
| 141 | Langer's Axillary Arch: a large scale dissection study   | Jeremias Weninger, Giorgi Didava, Stefan Meng, Wolfgang Weninger, Paata Pruidze | XVI | Müller | 22.09. | 13:30 |
| 142 |  |   |     |        |        |       |

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|     |   |   |     |                           |
| 143 | Mapping of proprioceptive receptors in the human pericardium: topographic and gender differences and their significance for the cardiac cycle | Lea Piermaier, Payam Akhyari, Timm Joachim Filler | XVI | Müller<br>22.09.<br>13:30 |
| 144 | Perforasomes of the occipital artery  | Sam Kandathil, Lukas Dengler, Lena Hirtler        | XVI | Müller<br>22.09.<br>13:30 |
| 145 | Interrelations between the transverse facial artery and the parotid duct  | Mironov Artem, Dydynkin Sergei, Vasil'ev Yurii    | XVI | Müller<br>22.09.<br>13:30 |

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|     | Ultrasound detection of the axillary arch in a prospective dissection-controlled cadaver study | Paata Prudze, Jeremias Weninger, Giorgi Didava, Atieh Seyedian Moghaddam, Tobias Rossmann, Wolfgang Weninger, Stefan Meng | XVI | Müller | 22.09. | 13:30 |
| 146 | Metatarsal blood supply - where is the problem in foot surgery?                                | Katharina Klüting, Timm Filler, Michael Wolf-Vollenbroeker, Pilge Hakan   | XVI | Müller | 22.09. | 13:30 |
| 147 | Topographic distribution of propriosensors in the distal human penis                           | Felix Springer, Timm Filler, Lea Piermaier, Achim Lusch   | XVI | Müller | 22.09. | 13:30 |
| 148 |  |   |     |        |        |       |

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|-----|---|---|-----|--------|--------|-------|
|     | The Significance of Anatomical Variants in the Circle of Willis in Cerebrovascular diseases - an Autopsic Study | Anca Sava, Ana-Maria Dumitrescu, Lucian Eva, Gabriela Florenta Dumitrescu, Claudia Florida Costea, Iordanis Salamastrakis, Catalina Dana Stan, Cristinel Ionei Stan | XVI | Müller | 22.09. | 13:30 |
| 149 | The Trunk of Henle and its Variants   | Johannes Streicher, Felix Kiehling, Peter Lechner   | XVI | Müller | 22.09. | 13:30 |

## Immune Biology

| Number | Title  | Authors  | Cluster | Room     | Date   | Time  |
|--------|--|--|---------|----------|--------|-------|
| 058    | Investigations on the influence of Nrf2 in TAMs using multicellular 3D spheroids | Nicole Schröder, Rosanna Huchzermeyer, Christoph Jan Wruck, Thomas Pufe, Athanassios Fragoulis | VI      | Reichert | 21.09. | 14:00 |

## Methods / Teaching

| Number | Title   | Authors   | Cluster | Room     | Date   | Time  |
|--------|---|---|---------|----------|--------|-------|
| 172    | 3D-printed replicates help raise unique specimens to higher power   | Johannes Streicher, Andreas Reisinger, Lukas Warnung, Niels Hammer, Dieter Pahr                               | XI      | Reichert | 22.09. | 12:30 |
| 173    | Elastic deformable human brain models copied from donor specimens: didactic value in neuroanatomy education as evaluated by students and teachers | Elisabeth Eppler, Jenny Polzer, Hannah Krafft, Beatrice Lauber, Alejandro Giesenow, Axel Lang, Oliver Ullrich | XI      | Reichert | 22.09. | 12:30 |

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|-----|--|--|--|----------|----------|--------|
|     |  | Daniela Kuzdas-Wood,<br>Ulrich Renner, Harald<br>Platzer, Andreas<br>Hainfellner, Wolfgang J<br>Weninger | XI   | Reichert | 22.09.   | 12:30  |
| 174 | First results from the<br>Integrated virtual and<br>traditional anatomy (IN<br>ViTRA) project: A pilot<br>for supporting teaching<br>anatomy basics in a<br>virtual reality (VR)<br>setting. | Designing Anatomy<br>facilities for integrated<br>preclinical education in<br>the Middle East            | Dietrich Ernst Lorke, John<br>Aubrey Rock, Robert<br>Hernandez, David Graham,<br>Natalie Keough, Daniël<br>Johannes van Tonder | XI       | Reichert | 22.09. |
| 175 | Vascular colored latex<br>injection of the hand as<br>a facilitator for the<br>anatomical study  | Alejandro Giesenow,<br>Elisabeth Eppler, Sofia Rey,<br>Florencia Basta, Carlos<br>Sanchez Carpio         | XI   | Reichert | 22.09.   | 12:30  |

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| 177 | New, innovative 3D-in-vivo-Model for high-level Microsurgical Training             | Eric Pion, Thiha Aung, Silke Haerteis  | XI | Reichert | 22.09. 12:30 |
| 178 | <b>3D-in vivo-model to study human renal cystic tissue and mouse kidney slices</b> | Julia Uzdi, Markus Kipp, Jonas Keiler  | XI | Reichert | 22.09. 12:30 |
| 179 | An Anatomist-Detective, the chemical techniques in the service of museumist        | Jurand Domański, Adriana Janczura, Marta Wanat, Katarzyna Wiglusz, Magdalena Grajzer, John Simmons, Zygmunt Domagała | XI | Reichert | 22.09. 12:30 |

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| 180 | Developing a 3D brain model as an online learning tool for health profession students | Isolde Deleyto Rösner,<br>Victoria Gsenger, Christian Platzl, Felix Eckstein, David Fürst, Martin Hudelmaier, Jan Pruszak | XI | Reichert | 22.09. | 12:30 |
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## Neuroanatomy/Neurobiology

| Poster-nummer | Titel  | Autoren  | Poster-runde | Saal   | Termin | Uhrzeit |
|---------------|--|--|--------------|--------|--------|---------|
| 011           | Repetitive transcranial magnetic stimulation (rTMS) induces plasticity of excitatory synapses in human cortical slices | Christos Galanis, Jakob Straehle, Elli-Anna Balta, Dieter Henrik Heiland, Jürgen Beck, Andreas Vlachos | IV           | Müller | 21.09. | 13:00   |

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|-----|---|--|--|--------|--------|--------|
|     |   | Erik Wolniczak, Sven Schumann, Thomas Roskoden, Anne Albrecht, Sabine Windhorst, Michael J. Schmeisser   | IV   | Müller | 21.09. | 13:00  |
| 012 | The inositol-1,4,5-trisphosphate-3-kinase-A is a putative regulator of social behavior and motor function   | Bcl11a is essential for postnatal cerebellar development   | Anna Dieterich, Franziska Anna Seigfried, Stefan Britsch | IV     | Müller | 21.09. |
| 013 | Neuroanatomical investigations in the BTBR model for idiopathic autism spectrum disorder (ASD) at adulthood | Leonardo Nardi, Stuti Chhabra, Guillherme Horta, Konstantin Raduyshkin, Petra Leukel, Anja Oelschlegel, Jürgen Goldschmidt, Clemens Sommer, Michael Joachim Schmeisser | IV   | Müller | 21.09. | 13:00  |
| 014 | Reelin signaling and posttranslational protein modifications  | Marie-Luise Kümmel, Eckart Förster   | IV   | Müller | 21.09. | 13:00  |
| 015 |   |  |  |        |        |        |

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|-----|---|---|----|--------|--------|-------|
|     | Ambivalent functions of Dickkopf1 in postnatal enteric progenitor cells derived from mice and human | Melanie Scharr, Simon Scherer, Bernhard Hirt, Peter Neckel  | IV | Müller | 21.09. | 13:00 |
| 016 | Impact of voluntary running on adult neurogenesis in BDNF-deficient mice                            | Dominik Nell, Monique Klausch, Oliver von Bohlen und Halbach  | IV | Müller | 21.09. | 13:00 |
| 017 | Spinal cord obtained from human body donors is suitable for multicolor immunofluorescence stainings | Lukas Reissig, Genova Carrero-Rojas, Udo Maierhofer, Atieh Seyedian Moghaddam, Andreas Hainfellner, Bernhard Gesslbauer, Thomas Häider, Oskar Aszmann, Angel Pastor, Wolfgang Weninger, Roland Blumer | IV | Müller | 21.09. | 13:00 |
| 018 |   |   |    |        |        |       |

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|     | Zsolt Turi, Nicholas Hananeia, Sina Shirinpour, Alexander Opitz, Peter Jedlicka, Andreas Vlachos                             | IV  | Müller | 21.09. | 13:00  |
| 019 | Dosing transcranial magnetic stimulation of the primary motor and dorsolateral prefrontal cortices with multi-scale modeling |   |        |        |        |
| 030 | Sexually differentiated microglia and hippocampal postnatal synaptic pruning   | Tim M. Prengel, Bianka Brunne, Gabriele M. Rune                     | X      | Müller | 21.09. |
| 041 | Responsiveness to and synthesis of sex hormones in male and female microglia   | Moataaz Habiballa, Elisabeth Kirschke, Gabriele Rune, Bianka Brunne | X      | Müller | 21.09. |
|     |  |   |        |        | 14:00  |

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|-----|---|--|---|--------|--------|-------|
| 042 | Binding of small heat shock protein HspB5/alphaB-crystallin to tubulin is dependent on phosphorylation status | Britta Bartelt-Kirbach,<br>Lennart Schawinsky, Nikola Golenhofen | X | Müller | 21.09. | 14:00 |
| 043 | A novel approach for cell type-specific and systematic analysis of transcription factors <i>in vivo</i>       | Christoph Wiegreffe,<br>Simon Ehrcke, Stefan Britsch             | X | Müller | 21.09. | 14:00 |
| 044 | Role of HCA2 receptor in brain and skin inflammation  | Hagen Lange, Evelyn Gaffal, Anne Albrecht                        | X | Müller | 21.09. | 14:00 |
| 045 | Transmembrane protein 119 is neither a specific nor a reliable marker for microglia                           | Hannes Kaddatz, Elise Vankriekelsvenne, Sarah Joost, Markus Kipp | X | Müller | 21.09. | 14:00 |

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|-----|---|--|---|--------|--------|-------|
|     | The Actions of TGF $\beta$ 1 in HMC3  | Johannes Wurm, Daniel Wibberg, Tobias Busche, Phani Sankar Potru, Björn Spittau          | X | Müller | 21.09. | 14:00 |
| 046 | Towards a characterization of CD cell surface antigen expression in the human spinal cord | Elizaveta Rogova, Sofia Capito, Max Schäbinger, Marco Birke, Nicole Schider, Jan Pruszak | X | Müller | 21.09. | 14:00 |
| 047 | Impact of constant light on inflammasome expression in the mouse hippocampus              | Sonja Johann, Pikria Ketelaouri, Katarina Scharov, Charlotte von Gall                    | X | Müller | 21.09. | 14:00 |
| 048 |   |  |   |        |        |       |

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|     |  | Susanne Wiemann, Judith Neumann, Tobias Diekamp, Karsten Niehaus, Björn Spittau | X  | Müller   | 21.09. | 14:00 |
| 049 | Analyzing metabolic alterations in the mouse CNS using matrix-assisted laser desorption/ionization-mass spectrometry imaging |   |    |          |        |       |
| 050 | Analysis of microglial synaptic engulfment during postnatal CNS development  | Tamara Ruß, Angela Kralemann-Köhler, Björn Spittau                              | X  | Müller   | 21.09. | 14:00 |
| 081 | Role of the GIP receptor in retinoblastoma   | André Haase, Maike Busch, Nicole Dünker   | IX | Reichert | 21.09. | 14:00 |

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| 082 | Targeting Protein tyrosine phosphatase type E (PTPRE) and miR631 – new chances for chemoresistant retinoblastoma treatment? | Annika Doege, Lars Mohren, Maike Busch, Nicole Dünker   | IX | Reichert<br>21.09.<br>14:00 |
| 083 | Neuronal activity drives tumor microtube dynamics and generation in glioblastoma  | Michael Botz, Marc Schubert, Stella Soyka, Wolfgang Wick, Frank Winkler, Thomas Kuner, Varun Venkataramani  | IX | Reichert<br>21.09.<br>14:00 |
| 084 | Characterization of glutamate-induced calcium transients in glioblastoma  | Julia Wagner, Marc Schubert, Svenja Tetzlaff, Tamara Chopurian, Michael Botz, Marion Schmitt, Wolfgang Wick, Winkler Frank, Thomas Kuner, Varun Venkataramani | IX | Reichert<br>21.09.<br>14:00 |

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|     | A culture model for the assessment of phenylalanine neurotoxicity in phenylketonuria  | Julian Kylies, Bianka Brunne, Gabriele M. Rune  | IX | Reichert | 21.09. | 14:00 |
| 085 | The effect of stress on prolactin immunoreactivity in rat adenohypophysis: immunohistochemical and electron microscopical study | Antje Prohaska, Gustav F. Jirikowski, Hartmut H. Oehring, Abeer el Emmam Dief, Elena V. Sivukhina | IX | Reichert | 21.09. | 14:00 |

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| 087 | Aldolase C in the brain emerges as a protein that may connect early life stress to depression | Giulia Treccani, Natarajan Perumal, Michael A. van der Kooij, Cristina Nuñez-Diaz, Heidi K. Müller, David P. Herzog, Lorenzo Mattioni, Gregers Wegener , Caroline Manicam, Malin Wennström, Michael J. Schmeisser, Marianne B. Müller | IX | Reichert<br>21.09.<br>14:00 |
| 088 | Night shift work – a risk factor for human health?  | Nora Bittner, Horst-Werner Korf, Susanne Moebus, Börge Schmidt, Svenja Caspers  | IX | Reichert<br>21.09.<br>14:00 |

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| 089 | TFF1 in aqueous humor – a potential new biomarker for retinoblastoma  | Maike Busch, André Haase, Natalia Mirochnikov, Annika Doege, Eva Biewald, Nikolaos Bechrakis, Manfred Beier, Deniz Kanber, Dietmar Lohmann, Klaus Metz, Nicole Dünker | IX  | Reichert | 21.09. 14:00 |
| 100 | Characterization of the role of sensory neurons for the induction of neurogenic inflammation in the airways using a Trpa1-DTR mouse model | Alaa Salah, Saskia B. Evers, Qiang Yu, Amanda Wyatt, Ulrich Boehm, Gabriela Krasteva-Christ   | V   | Reichert | 21.09. 13:00 |
| 121 | Morphological and Physiological Characterization of Subiculum Principal Cells   | Alix Guinet   | XIX | Müller   | 22.09. 13:30 |

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| 122 | Molecular subgroups of mouse cortical VIP neurons – laminar distribution and optical stimulation | Flore Schork, Felicita Fischer, Philipp Kolligs, Sandra Heinzl, Mirko Witte, Jochen Staiger     | XIX | Müller | 22.09. 13:30 |
| 123 | Quantitative analysis of Bcl11b expression in GABAergic hippocampal interneurons                 | Vanessa Fütterling, Franziska Anna Seigfried, Sven Nullmeier, Herbert Schwegler, Stefan Britsch | XIX | Müller | 22.09. 13:30 |
| 124 | Evaluation of the circadian expression of orexin receptors in the mouse brain by RNAscope®       | Gina Krause, Anne Albrecht  | XIX | Müller | 22.09. 13:30 |

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|     |   | Lara Mariel Chirich<br>Barreira, Julia Henschke,<br>Janelle Pakan, Anne<br>Albrecht                              | XIX | Müller | 22.09. | 13:30 |
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| 128 | Postsynaptic GABA <sub>B</sub> receptors inhibit synaptic plasticity at the excitatory input of dentate gyrus basket cells | Rita Loureiro  | XIX | Müller | 22.09. | 13:30 |
| 129 | GABA <sub>B</sub> Receptor-mediated effects in VIP-Expressing Interneurons of the Dentate Gyrus                            | Zhengzheng He  | XIX | Müller | 22.09. | 13:30 |
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| 135 | Entorhinal cortex lesion induces homeostatic synaptic plasticity of CA3 pyramidal neurons   | Pia Kruse, Andreas Vlachos, Maximilian Lenz  | XIX | Müller   | 22.09. 13:30 |
| 161 | Catecholaminergic system exists in the mouse tracheal epithelium  | Aysegül Demiral, Alexander Perniss, Silke Wiegand, Krupali Poharkar, Wolfgang Kummer, Uwe Pfeil                  | XV  | Reichert | 22.09. 12:30 |
| 162 | Changes in sciatic nerve histomorphometric parameters of the porcine sciatic nerve depending on preservation conditions after traumatic limb amputation | Mira Sophie Fruehwein, Svenja Kankowski, Jennifer Metzen, Denise Adam, Wiegmann Bettina, Kirsten Haastert-Talini | XV  | Reichert | 22.09. 12:30 |

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| 163 | Composition of gut microbiota affects myelination of the peripheral nervous system |  |    |          |        |       |
| 164 | Molecular features of the glia limitans perichoroidalis                            | Katerina Manzhula, Markus Kipp, Sarah Joost  | XV | Reichert | 22.09. | 12:30 |
| 165 | Tachykinin NK3 receptors in mouse gallbladder motility                             | Uwe Pfeil, Silke Wiegand, Maryam Keshavarz, Wolfgang Kummer  | XV | Reichert | 22.09. | 12:30 |

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| 166 | Eye immobilization but not visual deprivation affects palisade endings development   | Génova Carrero-Rojas, Johannes Streicher, Paula Martín Calvo, Rosa M Rodríguez de la Cruz, Angel M Pastor Loro, Roland Blumer | XV | Reichert | 22.09. 12:30 |
| 167 | Projection Targets of Efferent Neurons in the Internal Branch of the Superior Laryngeal Nerve: Strong Evidence of double Innervation Posterior Cricothyroid Muscle | Michael Pretterkloiber, Bettina Pretterkloiber, Andreas Frank, Richard Mayer, Renate Pflug, Alvin Lin                         | XV | Reichert | 22.09. 12:30 |
| 168 | SARS-CoV2 viral entry proteins ACE2 and TMPRSS2 occurrence in human tissue   | Stefanie Klingenstein, Moritz Klingenstein, Alfio Milazzo, Peter Neckel, Stefan Liebau  | XV | Reichert | 22.09. 12:30 |

## Neurodegeneration

| Number | Title  | Authors  | Cluster | Room     | Date   | Time  |
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| 181    | Fibrinogen Regulates Lesion Border-Forming Reactive Astrocyte Properties after Vascular Damage                                     | Pasquale Conforti, Szilvia Mezey, Suvra Nath, Yu-Hsuan Chu, Subash C. Malik, Jose C. Martínez Santamaría, Sachin S. Deshpande, Lauriane Pous, Barbara Zieger, Christian Schachtrup | XVII    | Reichert | 22.09. | 13:30 |
| 182    | Characterization of the Localization Pattern of Alpha-Synuclein in the Enteric Nervous System of Patients with Parkinson's disease | Carmen Kintrup, Annika Kluge, Eva Schaeffer, Ralph Lucius, Martina Boettner, Florian Richter, Jan-Hendrik Egberts, Thilo Wedel, Mark Ellrichmann, Daniela Berg, Francois Cossais   | XVII    | Reichert | 22.09. | 13:30 |

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|     |  | Davide Greco, Alexander Drakew, Thomas Deller                                | XVII | Reichert | 22.09. | 13:30 |
| 183 | Time lapse imaging of single granule cells in the mouse dentate gyrus after entorhinal denervation <i>in vitro</i> – identification of different response types to denervation |  |      |          |        |       |
| 184 | Inhibition of TGF $\beta$ signaling leads to enhanced phagocytosis of amyloid species  | Natascha Vidovic, Matthias Kühle, Oliver Kryzan, Angela Kuhla, Björn Spittau | XVII | Reichert | 22.09. | 13:30 |
| 185 | Analysis of retinal glia cells in an animal model for primary open angle glaucoma  | Ramona Pawlak, Anna Theresa Niebauer, Rudolf Fuchshofer                      | XVII | Reichert | 22.09. | 13:30 |

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|     |   | Shreya Agarwal, Alberto Catanese, Tobias M Böckers  | XVII | Reichert | 22.09. | 13:30 |
| 186 | Accumulation of aggregates leads to synaptic dysregulation in ALS related mutation                                | Veronica Antipova, Lisa-Marie Steinhoff, Carsten Holzmann, Arndt Rolfs, Carlos Junior Hempel, Martin Witt, Niels Hammer, Andreas Wree | XVII | Reichert | 22.09. | 13:30 |
| 187 | Organs Weight in NPC1 Mutant Mice Partly Normalized by Miglustat, Cyclodextrin, and Combination Treatment         | Kameliya S. Georgieva, Najwa Ouali Alami, Deniz Yilmazer-Hanke  | XVII | Reichert | 22.09. | 13:30 |
| 188 | Vascular Boggling in the White Matter is Related to Aging but Not to Alzheimer-related Changes in the Human Brain |   | XVII | Reichert | 22.09. | 13:30 |

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|     | Multimodal Treatment for ALS – The only option?   | Veronika Matschke  | XVII | Reichert | 22.09. | 13:30 |
| 189 | Collagen Type I Deficient Mice Show a Loss of Myelinated Optic Nerve Axons and Retinal Ganglion Cell Somata | Johanna Heimbucher,<br>Magdalena Schneider,<br>Matthias Mack, Ernst R.<br>Tamm | XVII | Reichert | 22.09. | 13:30 |

## Neuroimmunology

| Number | Title  | Authors   | Cluster | Room     | Date   | Time  |
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| 091    | Impact of ionizing radiation and possible countermeasures on microglia cells in murine organotypic hippocampal slice cultures. | Bahar Djouiai, Ingo Bechmann, Marco Durante, Felicitas Rapp, Sonja Kallendrusch | V       | Reichert | 21.09. | 13:00 |

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|     | Bernhard Reuss  |  |               |                 |
| 092 | Interactions of antibodies against Listeria monocytogenes with the low-density lipoprotein-receptor-associated-protein-1 due to molecular mimicry correlate to higher β-amyloid levels in human neuroblastoma cells | V<br>Reichert  | 21.09.        | 13:00           |
| 093 | Potential involvement of the intestinal serotonin – macrophages axis in Parkinson's disease   | Berit Fellermann, Eva Schaeffer, Ralph Lucius, Martina Boettner, Florian Richter, Jan-Hendrik Egberts, Thilo Wedel, Mark Ellrichmann, Daniela Berg, Francois Cossais | V<br>Reichert | 21.09.<br>13:00 |

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|     | Blood vessel reactive autoantibodies in encephalitis patients – target identification and functional implications | Lucie Yuanting Li, Paula Barthé, Małgorzata Burek, Jakob Kreye, Harald Prüss, Markus Höltje | V | Reichert | 21.09. | 13:00 |
| 094 | Transcriptomic profiling after microglia-specific Smad4 deletion in early postnatal and adult mice                | Phani Sankar Potru, Marcel Trautmann, Björn Spittau   | V | Reichert | 21.09. | 13:00 |
| 095 | Localization of mast cells in the rodent cochlea  | Tatyana Dudnik, Alina Smorodchenko, Agnes Szczeppek, Heidi Olze, Sergeeva V., Karayay B.    | V | Reichert | 21.09. | 13:00 |

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|-----|--|---|---|----------|--------|-------|
|     | Lipocalin 2 regulates blood-brain barrier integrity under inflammatory conditions                                    | Natalie Gasterich, Alexander Ranchev, Florian Schmitz, Miriam Buhl, Sebastian Rauer, Cordian Beyer, Tim Clarner               | V | Reichert | 21.09. | 13:00 |
| 097 | Cholesterol-dependent cytolsins boost neuroinflammatory response in meningitis through enhanced endocytosis          | Asparouh Iliev, Sabrina Hupp  | V | Reichert | 21.09. | 13:00 |
| 098 | The impact of immune cell-specific Nrf2 activity on disease progression in a combined multiple sclerosis mouse model | Lisa Kanne, Natalie Gasterich, Nadine Jülich, Florian Schmitz, Thomas Pufe, Cordian Beyer, Tim Clarner, Athanassios Fragoulis | V | Reichert | 21.09. | 13:00 |

## Neuroregeneration

| Number | Title  | Authors   | Cluster | Room     | Date   | Time  |
|--------|--|---|---------|----------|--------|-------|
| 090    | Ablation of scleral<br>TGF-BETA signaling<br>increases IOP induced<br>optic nerve damage | Magdalena Schneider,<br>Johanna Heimbucher, Ernst<br>Tamm | IX      | Reichert | 21.09. | 14:00 |

## Tissue-Engineering

| Number | Title   | Authors   | Cluster | Room     | Date   | Time  |
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| 059    | CAR12N bioactive glass scaffolds, developed for cartilage tissue engineering, are biocompatible and allow tissue formation <i>in vivo</i> | Clemens Gögele, Maria Kokozidou, Silvana Müller, Christian Werner, Sven Wiltzsch, Armin Lenhart, Gundula Schulze-Tanzil | VI      | Reichert | 21.09. | 14:00 |

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