

Programme of the 115th Annual Meeting

September 21 – 23, 2021 | Innsbruck, Austria

115th Annual Meeting

Innsbruck
21 – 23 September 2021



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September 21 – 23, 2021 | Innsbruck, Austria

Organization

o.Univ. Prof. Dr. Helga Fritsch

Head of the Institute of Clinical and Functional Anatomy

Department of Anatomy, Histology and Embryology

Medical University of Innsbruck

<http://www.anatomie-innsbruck.at>

Meeting Place:

online

Main Topics:

Gross Anatomy, Methods, Teaching; Neuroanatomy; Cell Biology; Developmental Biology

Mentoring

Tuesday, September 21, 2021 | 11:00 – 14:00 and 18:00 – 20:00

Preconference on Digital and Virtual Teaching of Anatomy

Tuesday, September 21, 2021 | 15:00 – 18:00

Opening Greetings:

Wednesday, September 22, 2021 | 08:30 – 08:45

"On the art of elegant failure" – Link to anatomy

Wednesday, September 22, 2021 | 14:45 – 15:15

Assembly of members and address of the president

Wednesday, September 22, 2021 | 17:30 – 19:00

Presentation of the „Nachwuchs-Preis“,

Poster Prize with regional musical accompaniment by Stubaiier Freitagsmusig

Thursday, September 23, 2021 | 16:00 – 19:30

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Tuesday, September 21, 2021

11:00 – 14:00	Mentoring event
11:00 – 11:15	Waschke J., <i>Munich</i> (Germany) Welcome Words Mentoring Karrierewege in der Anatomie: von verschlungenen Pfaden und Role Models (open for all registered participants of Annual Meeting of Anatomische Gesellschaft)
11:15 – 12:00	Holstein A.F., <i>Hamburg</i> (Germany)
12:00 – 12:45	Caspers S., <i>Düsseldorf</i> (Germany)
12:45 – 13:45	Drozdewski S., (Germany) Career Development: Impulsvortrag und praktische Tools zum Zeitmanagement (open for registered participants of the Mentoring event only)
13:45 – 14:00	Concluding remarks and election of Menteespeakers for the next year
14:00 – 14:30	Elsevier
14:30 – 15:00	COFFEE BREAK

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Tuesday, September 21, 2021

15:00 – 18:00	Digital and Virtual Teaching of Anatomy Chair: Brenner E., Innsbruck (Austria)
15:00 – 15:10	Opening remarks
15:10 – 15:30	McHanwell S., Newcastle (United Kingdom) The TEPARG-survey of changes to the teaching of gross anatomy following the Covid-19 pandemic
15:30 – 15:50	Jones G., Otago (New Zealand) Anatomy in a post-Covid-19 world: Tracing a new trajectory
15:50 – 16:10	Scholz M., Necker F., Erlangen (Germany) Cinematic (Rendering) anatomy
16:10 – 16:30	Britsch S., Ulm (Germany) Virtual microscopy
16:30 – 16:50	COFFEE BREAK
16:50 – 17:10	Pawlina W., Rochester (USA) Lecturing and small group teaching of anatomy in a digital environment
17:10 – 17:30	Smith C., Stone D., Brighton (United Kingdom) Live streaming experiences
17:30 – 17:50	Matthan J., Newcastle (United Kingdom) Justification for digital use of cadaveric images and/or live-streaming

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17:50 – 18:00	General discussion and closing remarks
18:00 – 20:00	Socializing for young anatomists and social event – networking

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Wednesday, September 22, 2021

- 08:30 – 08:45** **Opening Greetings / Hall I**
Rector: Univ.-Prof. Dr. W. Fleischhacker
President: Univ.-Prof. Dr. J. Westermann
Organizer: o. Univ. Prof. Dr. H. Fritsch
- 08:45 – 09:15** **EFEM Lecture / Keynote lecture** **Papa M., Napoli** (Italy)
The role of the pentapartite scenario in determining the fatal spatiotemporal coupling: regional energy failure and aberrant proteins in the central nervous system
- 09:15 – 12:00** **Gross Anatomy, Methods, Teaching I / Hall I**

Chair: B. Hirt, W. Weninger
- 09:15 – 09:30** **1** **Urban S., Pretterklieber B., Pretterklieber M., Vienna, Feldkirch and Graz** (Austria)
The anterolateral ligament of the knee - Phantom of anatomy within the anterolateral complex
- 09:30 – 09:45** **2** **Zwirner J., Singh A., Templer F., Ondruschka B., Hammer N., Dunedin** (New Zealand), **Hamburg** (Germany), **Graz** (Austria)
Traction or compression? - A histological analysis of heel spurs considering the reason for their development
- 09:45 – 10:00** **3** **Pretterklieber B., Scherer P., Pretterklieber M., Graz and Vienna** (Austria)
Pectineus muscle's double innervation – fact or fiction?

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| 10:00 – 10:15 | 4 | Pretterklieber B., Kerschán-Schindl K., <i>Graz and Vienna</i> (Austria)
Is the anatomy of the rat hip and thigh muscles comparable to human? |
| 10:15 – 10:30 | 5 | Kulow C., Steinke H., <i>Leipzig</i> (Germany)
Muscles levator scapulae and rhomboid minor: a morphological unit? |
| 10:30 – 10:45 | 6 | Pretterklieber B., Hader M., Hammer N., Pryymachuk G., Pröls F., Vielmuth F., Barnerßoi M., Cotofana S., Custozzo A., Weyers I., Wedel T., Arnold P., Rahner C., Müller-Gerbl M., Pretterklieber M., <i>Graz and Vienna</i> (Austria), <i>Cologne, Munich, Luebeck, Kiel</i> (Germany), <i>New York and Rochester (USA), Basel</i> (Switzerland)
When and why was in German textbooks of anatomy the phrenicoabdominal branch of the left phrenic nerve placed into the esophageal hiatus? An anatomical study on 400 specimens re-evaluating its course through the diaphragm |
| 10:45 – 11:00 | 7 | Toedtling M., Pretterklieber B., Pretterklieber M., <i>Vienna and Graz</i> (Austria)
Course and branching pattern of the dorsal within the deep muscles of back rami are more complex as usually described |
| 10:45 – 11:00 | 8 | Bauer D., Pretterklieber B., Pretterklieber M., <i>Vienna, Krems and Graz</i> (Austria)
Formation of the azygos and hemiazygos vein in humans and their passage through the diaphragm |

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- 11:15 – 11:30 9 Heinze T., Heimke M., Bayer A., Fletcher J., Miskovic D., Stelzner S., Wedel T., *Kiel and Dresden* (Germany), Harrow (England)**
The middle rectal artery - a forgotten but relevant blood vessel for both surgery and lateral lymphatic spread of rectal carcinoma
- 11:30 – 11:45 10 Pruidze P., Mincheva P., Weninger J., Reissig L., Hainfellner A., Weninger W., *Vienna* (Austria)**
The anatomical basis for collecting nasopharyngeal material to challenge Covid-19 and respiratory diseases
- 11:45 – 12:00 11 Schön M., Böckers A., *Ulm* (Germany)**
Longitudinal SARS-CoV-2 infection during the gross anatomy course
- 09:15 – 12:00 Neuroanatomy I / Hall II**

Chair: M. Engelhardt
- 09:15 – 09:30 12 Lenz M., Kruse P., Eichler A., Straehle J., Beck J., Deller T., Vlachos A., *Freiburg im Breisgau and Frankfurt* (Germany)**
All-trans retinoic acid induces synaptic plasticity in the human neocortex
- 09:15 – 09:30: 13 Witte M., Glöckner K., Möck M., Staiger J., *Goettingen* (Germany)**
GABAB-receptor mediated modulation of inhibitory neurotransmission on Martinotti cells in the Barrel Cortex
- 09:45 – 10:00 14 Arnold P., Dobert J., Bub S., Zunke F., *Erlangen* (Germany)**
Exploration of LIMP-2 as an expression platform for Parkinson's disease associated GCase variants

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| 10:00 – 10:15 | 15 | Catanese A., Sommer D., Böckers T., Ulm (Germany)
Multi-omics analysis of hiPSC-derived motoneurons highlights synaptic dysregulation as a driving pathomechanism in ALS |
| 10:15 – 10:30 | 16 | Treccani G., Yigit H., Lingner T., Schleußner V., Wennström M., Herzog D. P., Fricke M., Wegener G., Mittmann T., Trotter J., Schmeisser M., Müller M., Mainz and Goettingen (Germany), Malmö (Sweden), Aarhus (Denmark)
Early life stress targets the transcriptional signature and functional properties of voltage gated-sodium (Nav) channels in hippocampal NG2+ glia |
| 10:30 – 10:45 | 17 | Miroschnikov N., Dünker N., Busch M., Essen (Germany)
Role of inositol polyphosphate 4-phosphatase type II (INPP4B) in chemotherapy-resistant retinoblastoma cells |
| 10:45 – 11:00 | 18 | Mayadali Ü. S., Fleuriet J., Mustari M., Straka H., Horn A. K. E., Munich (Germany), Seattle (USA)
Transmitter and ion channel profiles of neurons in the primate abducens and trochlear nuclei |
| 11:00 – 11:15 | 19 | Carrero-Rojas G., Streicher J., de la Cruz R., Pastor A., Blumer R., Vienna and Krems (Austria), Seville (Spain)
Are palisade endings candidates to provide eye position signals? |
| 11:15 – 11:30 | 20 | Anstötz M., Fiske M. P., Maccaferri G., Chicago (USA)
Neural circuits of the subiculum and their involvement in epileptiform activity |

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11:30 – 11:45	21	Galanis C., Turi Z., Lenz M., Maggio N., Vlachos A., Freiburg (Germany), Ramat Gan (Israel) Repetitive magnetic stimulation induces synaptic plasticity through cooperative pre- and postsynaptic activation
11:45 – 12:00		Elsevier
12:00 – 12:20		Anatomage
12:20 – 13:00		Online museum tour during lunch break, Industrial exhibition / Hall I / II
13:00 – 14:00		Poster- Presentation / Hall I
14:00 – 14:30		Keynote lecture / Hall I Helmstaedter M., Frankfurt (Germany) Cerebral cortex connectomics
14:30 – 14:45		COFFEE BREAK
14:45 – 15:15		Motivational lecture Hall / I Innauer T., (ski jumper) "On the art of elegant failure" – Link to anatomy
15:15 – 17:15		Cellbiology I / Hall I <i>Chair: W. Kummer</i>
15:15 – 15:30	22	Socher E., Conrad M., Heger L., Paulsen F., Sticht H., Zunke F., Arnold P., Erlangen (Germany) SARS-CoV-2 Spike Protein: Molecular Dynamics Simulations of Sequence Variants Compared to the Wild Type Protein

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| 15:30 – 15:45 | 23 | <p>Mahmoud W., Perniss A., Poharkar K., Soultanova A., Pfeil U., Gärtner U., Hoek A., Hain T., Kummer W., Giessen (Germany)</p> <p>CXCL13 defines a neuroendocrine cell phenotype in the murine trachea and lung</p> |
| 15:45 – 16:00 | 24 | <p>Hamarsheh D., Poharkar K., Perniss A., Keshavarz M., Bodenbenner-Türich M., Kummer W., Giessen (Germany)</p> <p>Solitary chemosensory cells in the respiratory tract of man</p> |
| 16:00 – 16:15 | 25 | <p>Perniss A., Schmidt P., Soultanova A., Papadakis T., Dahlke K., Voigt A., Schütz B., Kummer W., Deckmann K., Giessen, Berlin, Nuthetal and Marburg (Germany)</p> <p>Development of epithelial cholinergic chemosensory cells of the urethra and trachea of mice</p> |
| 16:15– 16:30 | 26 | <p>Kumar P., Salah A., Maxeiner S., Yu Q., Flockerzi V., Gudermann T., Chubanov V., Boehm U., Hollenhorst M. I., Krasteva-Christ G., Homburg and Munich (Germany)</p> <p>The bitter taste receptor agonist denatonium influences mouse tracheal epithelial ion transport</p> |
| 16:30 – 16:45 | 27 | <p>Evers S., Nandigama R., Salah A., Herr C., Bischoff M., Munder A., Bals R., Gudermann T., Chubanov V., Boehm U., Krasteva-Christ G., Homburg, Würzburg, Hannover and Munich (Germany)</p> <p>Activation of tracheal brush cells promotes Trpm5-dependent innate immune responses in <i>Pseudomonas aeruginosa</i> infection</p> |
| 16:45 – 17:00 | 28 | <p>Jahr H., Pavanram P., Kubo Y., Pufe T., Aachen (Germany)</p> <p>Physiological biocompatibility screening of novel absorbable metallic implants ex vivo</p> |

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- 17:00 – 17:15 29 Fedotchenko A., *Hamburg* (Germany)**
Some aspects of morphogenesis of the marginal transitional zone of the rat hip joint during the postnatal period
- 15:15 – 17:15 Neuroanatomy II / Hall II**

Chair: C. Meier
- 15:15 – 15:30 30 Behrens V., Voelz C., Müller N., Zhao W., Clarner T., Beyer C., Zendedel A., *Aachen* (Germany)**
Lipocalin 2 modulates local inflammatory processes in the spinal cord and is a possible component of organ cross-talk after spinal cord injury
- 15:30 – 15:45 31 Voelz C., Müller N., Gasterich N., Zhao W., Behrens V., Weiskirchen R., Beyer C., Zendedel A., *Aachen* (Germany)**
The influence of LCN2 on NLRP3 inflammasome after spinal cord injury

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15:45 – 16:00	32	Gasterich N., Bohn A., Nebelo F., Sesterhenn A., Rantchev A., Buhl M., Weiskirchen R., Beyer C., Clarner T., Aachen (Germany) Astrocytic lipocalin 2 regulates the blood-brain barrier integrity in MS lesion development
16:00 – 16:15	33	Cambridge S., Düsseldorf (Germany) Single-dose ethanol intoxication causes acute and lasting neuronal changes in the brain
16:15 – 16:30	34	Trinh S., Kogel V., Beyer C., Seitz J., Aachen (Germany) Leaky gut? Morphological alterations of the intestinal tract in an animal model of anorexia nervosa
16:30 – 16:45	35	Frintrop L., Kipp M., Beyer C., Rostock and Aachen (Germany) Glia cell degeneration in an activity-based anorexia model
16:45 – 17:00	36	Joost S., Manzhula K., Greiner T., Runge J., Keiler J., Frank M., Kipp M., Rostock (Germany) Morphological and functional characterization of a glia limitans perichoroidalis
17:00 – 17:15	37	Pearcy Q., Jeejo M., Scholze M., Zhang M., Zwirner J., Dunedin (New Zealand), Chemnitz (Germany) Biomechanical properties of the human dura mater differ in relation to traversing vessels
17:15 – 17:30		COFFEE BREAK
17:30 – 19:00		Assembly of members and address of the president / Hall I

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- 08:15 – 08:45** **Keynote lecture / Hall I Bachmann S., *Berlin*** (Germany)
Cell biology of pathological changes in epithelial cells
- 08:45 – 10:30** **Gross Anatomy, Methods, Teaching II / Hall II**

Chair: N. Hammer
- 08:45 – 09:00** **38 Tomlinson J., Morawski M., Ondruschka B.,
Oorschot D., Zhang M., Zwirner J., Hammer N.,
Dunedin (New Zealand), *Leipzig, Hamburg* (Germany),
Graz (Austria)**
The central aspect of the human hip capsule likely
has a minimal role in hip neuromechanics
- 09:00 – 09:15** **39 Siwetz M., Kieser D., Ondruschka B., Pretterklieber B.,
Hammer N., *Graz* (Austria), *Christchurch* (New Zealand),
Hamburg (Germany)**
Determining a nerve-free zone for surgical exposures
to the anterior glenoid
- 09:15 – 09:30** **40 Poilliot A., Doyle T., Kurosawa D., Toranelli M., Zhang
M., Zwirner J., Müller-Gerbl M., Hammer N., *Basel*
(Switzerland), *Dunedin* (New Zealand), *Sendai* (Japan),
Graz (Austria)**
Computed tomography osteoabsorptiometry-based
investigation on subchondral bone plate alterations in
sacroiliac joint dysfunction
- 09:30 – 09:45** **41 Freiberger I., Winkelmann A., *Neuruppin*** (Germany)
Hermann Stieve distorted biographical information in his
published case descriptions to partly conceal the
circumstances of his tissue acquisition from Plötzensee
execution victim

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| 09:45 – 10:00 | 42 | Winkelmann A., Neuruppin (Germany)
The use of bodies of the executed for histological research
an ongoing practice in Berlin after 1945 |
| 10:00 – 10:15 | 43 | Sandrock M., Kulow C., Leipzig (Germany)
Transforming the anatomy lab into a creative space |
| 10:15 – 10:30 | 44 | Stofferin H., Pfitscher K., Nägele F., Siller H., Hirsch J.,
Fritsch H., Pölzl L., Innsbruck (Austria)
Generation Z in Medicine: No longer just a Boys Club |
| | | |
| 08:45 – 10:15 | | Cellbiology II / Hall I

<i>Chair: S. Bachmann</i> |
| 08:45 – 09:00 | 45 | Schmitt T., Egu D., Waschke J., Walter E., Sigmund A.,
Munich (Germany)
Desmoglein 1 is a signaling hub controlling keratinocyte Ca ²⁺
influx in pemphigus |
| 09:00 – 09:15 | 46 | Fuchs M., Sigmund A., Kugelmann D., Vielmuth F., Waschke
J., Munich (Germany)
Desmoglein 2 is upregulated in pemphigus and can undergo
Ca ²⁺ -dependent interactions with both desmosomal and
classical cadherins including E-cadherin and N-cadherin |
| 09:15 – 09:30 | 47 | Sigmund A., Winkler M., Engelmayr S., Egu D., Kugelmann
D., Kotschi S., Radeva M., Waschke J., Vielmuth F., Munich
(Germany)
Apremilast is protective against pemphigus
autoantibodies in human skin |

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09:30 – 09:45	48	Rihani L., Franzmeier S., Schlegel J., Augsburg and Munich (Germany) The regulatory effect of ALDH1a1 and ALDH1a3 paralogues in skeletal muscle differentiation
09:45 – 10:00	49	Kunz T. S., Winkler M., Radeva M. Y., Hammer N., Waschke J., Vielmuth F., Munich (Germany), Graz (Austria) Adrenergic signaling modulates tenocyte intercellular contacts and collagen synthesis
10:00 – 10:15	50	Zahn I., Altersberger V., Diettrich J., Garreis F., Schicht M., Paulsen F., Erlangen (Germany) Impact of melanocortin receptor ligands on lipid accumulation in meibocytes
10:15 – 10:30		COFFEE BREAK
10:30 – 11:30		Poster-Presentation / Hall I
11:30 – 13:00		Online city tour with Team Anatomy Innsbruck / during lunch break
13:00 – 13:30		Keynote lecture / Hall I Brand-Saberi B., Bochum (Germany) Modelling human embryonic development

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13:30 – 15:45 Cellbiology III / Hall I

Chair: J. Waschke

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| 13:30 – 13:45 | 51 | Yeruva S., Stangner K., Jungwirth A., Kugelmann D., Waschke J., <i>Munich</i> (Germany)
Autoantibodies against intercalated disc proteins are frequent in Arrhythmogenic cardiomyopathy and are pathogenic in few patients |
| 13:45 – 14:00 | 52 | Schinner C., Franz H., Stuedle C., Xu L., Lorenz V., Kuster G., Spindler V., <i>Basel</i> (Switzerland)
The desmoglein-2 adhesive interface is essential for cardiac integrity: identifying mechanisms causing Arrhythmogenic Cardiomyopathy |
| 14:00 – 14:15 | 53 | Kleefeldt F., Reimer A., Bömmel H., Pfeiffer V., Wagner N., Rueckschloss U., Ergün S., <i>Würzburg</i> (Germany)
TNF- α mediated adherence junction disassembly induces β -catenin-dependent CEACAM1 transcription in endothelial cells |
| 14:15 – 14:30 | 54 | Hachmann M., Karnati S., Dudek J., Ergün S., Maack C., Bömmel H., Kleefeldt F., <i>Würzburg</i> (Germany)
The role of peroxisomes in Barth syndrome |
| 14:30 – 14:45 | 55 | Kogel V., Voelz C., Trinh S., Gasterich N., Beyer C., Seitz J., <i>Aachen</i> (Germany)
How to starve astrocytes – A functional characterization of long-term starved astrocytes |
| 14:45 – 15:00 | 56 | Koblenzer M., Weiler M., Pufe T., Jahr H., <i>Aachen</i> (Germany)
Spheroidal osteoblast progenitor cell culture for physiological biomineralization |

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| 15:00 – 15:15 | 57 | <p>Ferner F. V., Haupts S. C., Heydel C., Mahmoud W., Hamarsheh D., Poharkar K., Kershaw O., Hoppe J., Ewers C., Gruber A., Hain T., Kummer W., Perniss A., <i>Giessen and Berlin</i> (Germany)</p> <p>Bordetella pseudohinzii: a mouse specific pathogen as a new model to study respiratory infection</p> |
| 15:15 – 15:30 | 58 | <p>Krömer J., Hoang N. A., Sittig D., Welling C., Zönnchen J., Junk D., Mölleken J., Monecke A., Krämer S., Piegeler T., Kallendrusch S., <i>Leipzig</i> (Germany)</p> <p>Local anesthetics reduce tumor viability in tissue cultures of non-small cell lung cancer</p> |
| 15:30 – 15:45 | 59 | <p>Abdel Wadood N., Evers S., Salah A., Nadolni W., Herr C., Bals R., Gudermann T., Bischoff M., Zierler S., Chubanov V., Krasteva-Christ G., <i>Homburg and Munich</i> (Germany), <i>Linz</i> (Austria)</p> <p>TRPM5 channel modulates immune response to Pseudomonas aeruginosa infection</p> |
| 13:30 – 15:45 Developmental Biology / Hall II | | |
| <i>Chair: B. Brand-Saberi</i> | | |
| 13:30 – 13:45 | 60 | <p>Reissig R., Moghaddam A. S., Prin F., Wilson R., Galli A., Tudor C., White J., Geyer S., Mohun T., Weninger W., <i>Vienna</i> (Austria), <i>London and Cambridgeshire</i> (UK)</p> <p>Morphologic indicators for severe central nervous system defects in genetically engineered mouse embryos</p> |
| 13:45 – 14:00 | 61 | <p>Geyer S. H., Przewrocka J., Grönroos E., Prin F., Tim Mohun Swanton C., Weninger W., <i>Vienna</i> (Austria), <i>London</i> (UK)</p> <p>Phenotype analysis of Zfp-/- and Zfp-/+ mouse embryos based on High resolution episcopic microscopy</p> |

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| 14:00 – 14:15 | 62 | <p>Arumugam G., Gather F., Rauleac T., Müller T., Kleidonas D., Vlachos A., Scheibe M., Backofen R., Vogel T., Freiburg and Mainz (Germany)</p> <p>The lincRNA Pantr1 is a critical mediator of dendritic outgrowth in a mouse model of FOXG1 syndrome</p> |
| 14:15 – 14:30 | 63 | <p>Schmidt S., Alt Y., Dambacher H., Ergün S., Wörsdörfer P., Würzburg (Germany)</p> <p>Investigations on the role of human Connexin43 and Connexin45 during vasculogenesis in blood perfused vascular organoids</p> |
| 14:30 – 14:45 | 64 | <p>Pu Q., Hans M., Huang R., Bonn (Germany)</p> <p>Protein and mRNA relay for a long-range FGF8 concentration gradient</p> |
| 14:45 – 15:00 | 65 | <p>Wang Y., Huang R., Bonn (Germany)</p> <p>Hox genes initiate the limb by permissive and instructive induction</p> |
| 15:00 – 15:15 | 66 | <p>Getwan M., Hopmann A., Schlosser P., Hildebrandt F., Lausch E., Köttgen A., Lienkamp S., Zürich (Switzerland), Freiburg (Germany), Boston (USA)</p> <p>Ttc30a affects tubulin modifications in a frog model for ciliary chondrodysplasia with polycystic kidney disease</p> |
| 15:15 – 15:30 | 67 | <p>Maier E., Salas A., Cheffer A., Vogel T., Freiburg (Germany)</p> <p>The histone methyltransferase DOT1L plays an important role in the proper differentiation and integration of GABAergic interneurons into the developing mouse cortex</p> |

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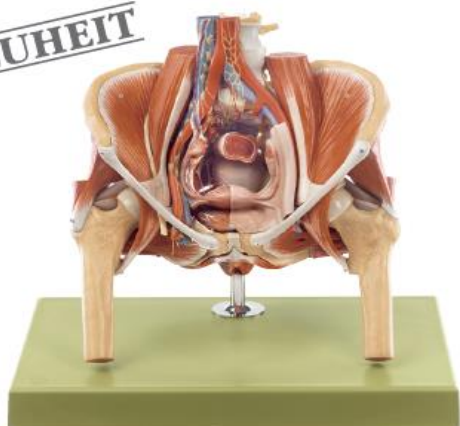
Thursday, September 23, 2021

15:30 – 15:45	68	Reuss B., <i>Göttingen</i> (Germany) Maternal infections, molecular mimicry and fetal brain development: what could we learn from multiprotein-arrays?
15:45– 16:00		COFFEE BREAK
16:00– 19:30		Hall I Presentations Young Talent Award Winners 2020 and 2021 Poster prizes with regional musical accompaniment at the beginning and the end with Stubai Freitagsmusig



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MS 8/7

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Gross Anatomy, Methods, Teaching

- P1** **Wolf-Vollenbröcker M., Prescher A., Düsseldorf and Aachen** (Germany)
Derivatives of the posterior arch of the Proatlans: Ligamentum condylicum posterius and related osseous structures at the human craniocervical junction
- P2** **Fuchssteiner C., Morgenbesser R., Hirtler L., Vienna** (Austria)
The trochlea of the superior oblique muscle – anatomic landmarks for its localization
- P3** **Friederich M., Fehm T., Filler T., Düsseldorf** (Germany)
Propriosensors in the parametries
- P4** **Kamp A.-M., Albrecht P., Filler T., Düsseldorf** (Germany)
The antebrachial interosseous membrane exhibits a gender- and function-specific distribution of mechanoreceptors
- P5** **Topka M., Hammer C. M., Bock A., Riedel P., Lörner J., Hammer A., Maier E., Paulsen F., Zhang Y., Erlangen and Nürnberg** (Germany)
Usability of abattoir-acquired pig eyes for refractive excimer laser research
- P6** **Maurer-Gesek B., Pany-Kucera D., Spannagl-Steiner M., Weninger W. J., Vienna** (Austria)
The sacral preauricular extension in modern humans and its associated soft tissues
- P7** **Pruidze P., Mincheva P., Weninger J., Reissig L., Hainfellner A., Weninger W., Vienna** (Austria)
Collecting material of the upper airways – is there a danger for the brain?
- P8** **Saudenova M., Promnitz J., Kliewe F., Endlich N., Theilig F., Kiel and Greifswald** (Germany)
The role of cathepsin B and mechanical stress in the development of Focal Segmental Glomerulosclerosis

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- P9** **Terzis R., Bostelmann R., Eichhorn C., Filler T., *Düsseldorf, Quakenbrück and Aachen* (Germany)**
Proprioceptive supply of thoracolumbar fascia
- P10** **Keiler J., Runge J., Malanowska E., Einenkel R., Klussmann-Fricke B.-J., Siewert S., Grabow N., Schmitz K.-P., Zygmunt M., Wree A., *Rostock and Greifswald* (Germany), *Szczecin* (Poland)**
Fallopian tube morphometry based on x-ray microtomography and histology – implications for a stent-based treatment of proximal re-stenosis
- P11** **Runge J., Keiler J., Siewert S., Kischkel S., Grabow N., Schmitz K.-P., Wree A., Guthoff R. F., Stahnke T., *Rostock* (Germany)**
Micro-CT based evaluation of a newly developed glaucoma microstent in the iridocorneal angle
- P12** **Bilella A., Eppler E., Filgueira L., *Fribourg and Bern* (Switzerland)**
Body painting, ultrasound, clinical investigation and peer-teaching: a student-orientated unconventional approach to enhance anatomy learning.
- P13** **Gruber G. M., Förster-Streffleur S., Pfeifenberger K., Streicher J., *Krems* (Austria)**
Sculpturing anatomy: hands-on comprehension of form and function
- P14** **Anikeva I., Soloveva A., Didenko V., Anikienko A., Zagorovska T., Khairullin R., *Saratov and Saint-Petersburg* (Russia)**
Preparation of the eyeball
- P15** **Nökel K., Krallmann J. M., Naß N., Ödemis V., *Oldenburg* (Germany)**
Peyton's four-step approach: positive effect on student's ability to use the light microscope? - a pilot study
- P16** **Ascheid D., Henke E., Ergün S., *Würzburg* (Germany)**
Extended evaluation of vascular normalization after anti-angiogenic therapy

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Neuroanatomy

- P17** **Muellerleile J., Vnencak M., Ippolito A., Krueger-Burg D., Jungenitz T., Schwarzacher S. W., Jedlicka P., *Frankfurt, Göttingen and Giessen* (Germany)**
Neurologin-3 regulates excitatory synaptic transmission and EPSP-spike coupling in the dentate gyrus in vivo
- P18** **Melzer L., Freiman T., Derouiche A., *Frankfurt am Main and Rostock* (Germany)**
Rab6A immunolabelling in mouse and human brain: Establishing an astrocyte-specific marker
- P19** **Kvitka D., Pauza D. H., *Kaunas* (Lithuania)**
Vascularisation of epicardiac ganglionated nerve plexus (epiGP) in pig model
- P20** **Van Meenen D. F., Dräger O., Busch M., Dünker N., *Essen* (Germany)**
ADAM10 and ADAM17 - novel players in retinoblastoma carcinogenesis?
- P21** **Schotten A. L., Schwenzer C., Beyer C., Seitz J., Trinh S., *Aachen* (Germany)**
Fear&food: Anxiety as a risk factor for anorexia nervosa
- P22** **Quabs J., Mohlberg H., Bludau S., Amunts K., Caspers S., *Düsseldorf and Jülich* (Germany)**
Mapping the cytoarchitectonic basis of functional variability in the human insula
- P23** **Albrecht A., Weiglein A., Müller I., Çalışkan G., Stork O., *Magdeburg* (Germany)**
Choosing memory retrieval strategies: a critical role for inhibition in the dentate gyrus
- P24** **Mehlhorn J., Eusemann B., Petow S., *Düsseldorf and Celle* (Germany)**
The influence of 17 β -estradiol on brain size - preliminary investigations of the brain-gonadal axis in laying hens (*Gallus gallus* f.d)

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- P25** **Maxeiner S., Krasteva-Christ G., Homburg** (Germany)
Of mice and men – and gerbils! Unexpected NLGN4X/Y gene diversification in rodents
- P26** **Preuß F., Möck M., Witte M., Staiger J., Göttingen** (Germany)
Disinhibitory circuit motifs in mouse primary somatosensory (Barrel) Cortex
- P27** **Kremer C., Beckmann A., Hainz N., Grissmer A., Meier C., Homburg** (Germany)
The oligodendrocytic gap junction protein Connexin 29 is a downstream target of cuprizone intoxication
- P28** **Kruse P., Vlachos A., Lenz M., Freiburg** (Germany)
Entorhinal cortex lesion induces homeostatic synaptic plasticity of CA3 pyramidal neurons
- P29** **Eichler A., Turi Z., Kleidonas D., Kirsch M., Masuda T., Prinz M., Lenz M., Vlachos A., Freiburg** (Germany)
Microglia mediate synaptic plasticity induced by repetitive magnetic stimulation
- P30** **Ranceviene D., Azukaite J., Rysevaite - Kyguoliene K., Pauziene N., Kaunas** (Lithuania)
Arterial hypertension change phenotype of nerve fibers in epicardiac nerves
- P31** **Clarner T., Franz C., Herrmann A., Kogel V., Nikoubashman O., Aachen** (Germany)
Contamination of the angiographic work environment with textiles: Detection and characterization of particles and fibers
- P32** **Einhäupl L., Knocks J., Winkelmann A., Wittenmayer N., Neuruppin and Hamburg** (Germany)
Localisation and functional role of MAGI-1 in neurons
- P33** **Stelz V., Koumoundourou A., Britsch S., Ulm** (Germany)
Functional analysis of the transcription factor Bcl11a/Ctip1 in the developing hippocampus

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- P34** **Schneider M., Tamm E. R., Dillinger A. E., Regensburg** (Germany)
Ablation of scleral TGF-BETA signaling increases susceptibility to IOP-induced optic nerve damage
- P35** **Dillinger A. E., Bauer N., Seitz R., Fuchshofer R., Tamm E. R., Regensburg** (Germany)
Versican GAG- α domain deficiency causes rosette formation and detachment of the sensory retina in the mouse eye
- P36** **Antipova V., Holzmann C., Hawlitschka A., Witt M., Wree A., Graz** (Austria), **Rostock** (Germany)
Antidepressant-like properties of intrastriatal botulinum neurotoxin-A injection in a unilateral 6-OHDA rat model of Parkinson's disease
- P37** **Walther I. L., Lucius R., Rickert U., Kiel** (Germany)
Bryostatin and anacardic acid: dual role in microglia-mediated neuroprotection
- P38** **Schöning T. L., Rickert U., Hölscher C., Lucius R. Kiel, Taiyua** (China)
DA-CH5, a novel dual GLP-1/GIP receptor agonist, impairs microglia activation/neuroinflammation in vitro
- P39** **Kleine A. D., Reuss B., Göttingen** (Germany)
Interaction of a polyclonal antiserum to Helicobacter pylori with Astrotactin-2 correlates to reduced neurite length in SiMa human neuroblastoma cells
- P40** **Li L. Y., Burek M., Barthel P., Kreye J., Reincke M., Prüß H., Höltje M., Berlin and Würzburg** (Germany)
Identification and characterization of blood vessel reactive autoantibodies in encephalitis patients
- P41** **Casari A., Katsalifis A., Schmidt R., Bas-Orth C., Heidelberg** (Germany)
Knockdown of the mitochondrial calcium uniporter protects against activated glia-induced impairment of the neuronal mitochondrial membrane potential
Cell Biology

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Cell Biology

- P42** **Wöhner B., Li W., Drobny A., Lucius R., Zunke F., Arnold P. *Kiel, Erlangen***
(Germany)
CD44, ADAM10 and MMP14 form a complex regulatory network in cellular homeostasis.
- P43** **Buhrmann C., Shayan P., Brockmueller A., Shakibaei M. *Augsburg, Munich***
(Germany), ***Teheran*** (Iran)
Suppressive impact of resveratrol on tumor microenvironment cross-talk in a novel multicellular in vitro model
- P44** **Mohren L., Dräger O., Miroshnikov N., Busch M., Dünker N., *Essen***
(Germany)
Role of protein tyrosine phosphatase receptor type E (PTPRE) in chemoresistant retinoblastoma cells
- P45** **Dahlke E., Anan Y., Klie L., Franziska Theilig F., *Kiel*** (Germany)
Interaction between Megalin and FcRn promoting proximal tubular function
- P46** **Steinert L., Waschke J., Vielmuth F., *Munich*** (Germany)
Desmosomal hyper-adhesion ameliorates effects of direct inhibition of Dsg3 interactions in pemphigus
- P47** **Nicolaus H., Paulsen F., Klonisch T., Garreis F., *Erlangen*** (Germany), ***Winnipeg***
(Canada)
C1q-TNF-related-peptides 1, 6 and 8 at the ocular surface and their impact on corneal wound healing
- P48** **Huchzermeier R., Nicole Schröder N., Böttcher G., Pufe T., Fragoulis A., *Aachen*** (Germany)
Establishment of a co-culture model for investigating interactions between 3D tumor spheroids and macrophages

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- P49** **Lückstädt W., Bub S., Koudelka T., Lucius R., Arnold P., Kiel and Erlangen** (Germany)
Desmoglein-2 identified as a potential interaction partner of CD109
- P50** **Meister A.-L., Garreis F., Zahn I., Paulsen F., Schicht M., Erlangen** (Germany)
Expression and function of the ATP binding cassette transporter (ABC transporter) in human meibocytes
- P51** **Wanuske M.-T., Marteau P., Spindler V., Basel** (Switzerland)
Combining AFM-based functional imaging with fluorescence reporters to outline adhesion-dependent signaling
- P52** **Zanon Rodriguez L., Rahbari K., Geurink I., Franziska Theilig F., Kiel** (Germany)
Altered WNK1 isoforms expression in diabetic nephropathy and VHL conditional knockout – abgemeldet
- P53** **Schweizer F., Krasteva-Christ G., Stephan Maxeiner S., Homburg** (Germany)
Of mice and men – and guinea pigs! Assessing expression and localization of enigmatic MXRA5
- P54** **Ferdinand A., Recktenwald J., Grißmer A., Meier C., Beckmann A., Homburg** (Germany)
C-terminal modification of Connexin 43 and its impact on gap junction structure and function
- P55** **Venghaus A., Krasteva-Christ G., Maxeiner S., Homburg** (Germany)
Of mice and men – and guinea pigs! A new strategy to study X-linked Kallmann syndrome
- P56** **Bub S., Lückstädt W., Dobert J.-P., Lucius R., Zunke F., Arnold P., Erlangen and Kiel** (Germany)
Recombinant production and structural characterization of human CD109
- P57** **Li W., Arnold P., Erlangen** (Germany)
Purification of full-length meprin β for structural analysis

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- P58 Schomburg S., Li W., Arnold P., *Erlangen*** (Germany)
The release of the metalloproteinase meprin beta onto extracellular vesicles
- P59 Rockel A., Ergün S. Wörsdörfer P., *Würzburg*** (Germany)
Neuro-mesenchymal organoids as in vitro model system for peripheral nervous system development
- P60 Schulz A., Li W., Lucius R., Arnold P., *Kiel and Erlangen*** (Germany)
Influence of PU.1, Fra2, TBX4 and meprin BETA expression in HEK293T cells, on the expression of extracellular matrix coding genes
- P61 Scheer A., Schicht M., Paulsen F., Gostian A.-O., Bräuer L., *Erlangen*** (Germany)
Characterization of SP-G, SP-H in the human larynx
- P62 Kubo Y., Beckmann R., Herrera A., Szymanski K., Rosenhain S., Weiler M., Fragoulis A., Slowik A., Gremse F., Wruck C. J., Jahr H., Pufe T., Tohidnezhad M., *Aachen*** (Germany)
Nuclear factor erythroid 2–related factor 2 (Nrf2) deficiency causes age-dependent progression of osteoporosis in female mice
- P63 Kubo Y., Dick H., Fragoulis A., Al Asmi M. N., Jahr H., Tohidnezhad M., Wruck C. J., Pufe T., *Aachen*** (Germany)
Protective effect of Methysticin on osteoblast function under oxidative stress through Nrf2 signaling pathway: study
- P64 Welling C., Hoang N. A., Sittig D., Krömer J., Zönnchen J., Monecke A., Gockel I., Weimann A., Bechmann I., Lordick F., Kallendrusch S., *Leipzig*** (Germany)
TAM regulate susceptibility to PD1 inhibitors - abgemeldet
- P65 Hoang N. A., Hußtegge M., Rebstock J., Monecke A., Gockel I., Weimann A., Schumacher G., Lordick F., Körfer J., Kallendrusch S., *Leipzig and Braunschweig*** (Germany)
PD-1 inhibition in adenocarcinoma of gastric cancer

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- P66** **Ahrens G., Kurz B., Gellhaus F., Behrendt P., Weitkamp J.-T., Rolauffs B., Grodzinsky A. Kiel, Freiburg im Breisgau (Germany), Cambridge (UK)**
The effect of IL-17 and combined mechanical injury on meniscal tissue integrity in vitro
- P67** **Gögele C. L., Vogt J., Konrad J., Merkel R., Schäfer-Eckart K., Hoffmann B., Schulze-Tanzil G., Nürnberg and Jülich (Germany)**
Cyclic stretch causes a strong spheroid interaction for enthesis formation in vitro
- P68** **Pichler R., Rizzo L., Tröndle K., Lienkamp S. Freiburg, Zürich (Switzerland)**
Modeling kidney disease in directly reprogrammed and bioprinted renal cells

Developmental Biology

- P69** **Cheng L., Tiemann I., Huang R., Bonn (Germany)**
Temporal development of nociceptive tracts in chick embryos and fetuses
- P70** **Zhou P., Huang R., Bonn (Germany)**
Guidance function of sensory axons on motor axons during the cranial nerve formation in chick embryos
- P71** **Tao H., Huang R., Bonn (Germany)**
Role of Plexin-A2 during the hypoglossal nerve formation in chick embryos

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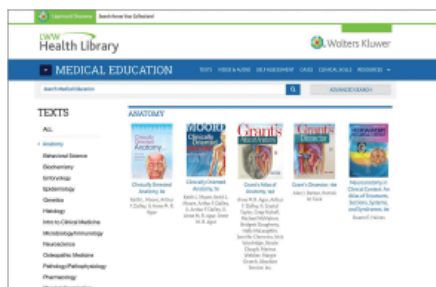


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Co-organizer

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Scientific Committee

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In cooperation with the executive board of the
„Anatomische Gesellschaft“

Programme of the 115th Annual Meeting

September 21 – 23, 2021 | Innsbruck, Austria

General information

Cutting Edge Research

Cutting Edge Research in Anatomy in humans versus anatomy laboratory animals

Cell Biology

Neuroanatomy

Macroscopic and Clinical Anatomy

Developmental Biology and Embryology

Teaching

Creative Networking

Mentoring programme of the Anatomische Gesellschaft

Digital and Virtual Teaching of Anatomy as Preconference Workshop

Enough room for discussion

Online Tour Anatomy Museum Innsbruck

Online Sightseeing Tour "The Heart of the Alps"

Preconference Workshop

A.o.Univ.Prof. Dr. Erich Brenner, MME

Mediadesign

Dr. Hannes Stofferin

Guided tour Anatomical Museum

Romed Hörmann

Online city tour with team Innsbruck

Dr. Anto Abramovic

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Great Service

For an unforgettable online conference, Innsbruck has excellent prerequisites: situated in the heart of the Alps, Innsbruck is a place where the mountains meet the valley, and the city is in accordance with nature. Enjoy our online sightseeing tour and the wonders of the Anatomy Museum. Spend some additional time in the chat rooms to start interdisciplinary discussions with attendees and experts from all over the world. Caught your interest? We are looking forward to welcoming you online in Innsbruck, the “Capital of the Alps”!

Correspondece and Meeting Secretaries

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General information

Sponsors

Land Tirol, Innsbruck, Austria

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Medel, Austria

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Day	Time	Scientific programme Hall I	Scientific programme Hall II	Education and Social programme
Tuesday September 21	11:00 – 14:00 15:00 – 18:00 18:00 – 20:00			Mentoring event Digital and Virtual Teaching Socializing for young anatomists
Wednesday September 22	08:30 – 08:45 09:15 – 12:00 12:00 – 13:00 13:00 – 14:00 14:45 – 15:15 15:15 – 17:15 17:30 – 19:00	Gross Anatomy, Methods, Teaching I Poster Presentation Cell Biology I	Neuroanatomy I Neuroanatomy II	Opening Greetings Online museum tour Motivational lecture Assembly of members and address of the president
Thursday September 23	08:45 – 10:30 10:30 – 11:30 11:30 – 13:00 13:30 – 15:45 16:00 – 19:30	Cell Biology II Poster Presentation Cell Biology III	Gross Anatomy, Methods, Teaching II Developmental Biology	 Online city tour Presentation of Prizes