

Cross Discipline and Networking

TRIPARTITE MEETING OF THE

**Anatomische Gesellschaft
Austrian Society of Anatomy
Swiss Society for Anatomy, Histology
and Embryology**

SCIENTIFIC PROGRAM

25 – 27.09.2024

Pre and Post Conference Activities 24 and 28 September

Program at a glance - September 25, 2024

Room: Exhibition and break area	Room: Planner von Plan N UI III	Room: Hyrtl A EG 113	Room: Dissection South N 01 02P
9.00	09:00 to 09:45 S1 - Keynote Lecture: Form-Function Relationship (GANÖ)	9.00	9.00
09:45 to 10:15 Coffee break			
	10.00	10.00	10.00
	10:15 to 11:45 S2 - Form-Function Relationship (GANÖ)	10:15 to 11:45 S3 - Neuroanatomy (AG)	
11.00			11.00
11:45 to 13:45 Lunch break	11:45 to 13:45 S4 - Method Section of the Young Anatomists (AG)		
		12.00	12.00
		13.00	13.00
	13:45 to 15:15 S5 - Embryology and Cell Biology (AG)	13:45 to 15:15 S6 - Gross Anatomy (GANÖ)	14.00
14.00			
15.00			15.00
15:15 to 15:45 Coffee break			
	15:45 to 17:15 S7 - Form-Function Relationship (AG)		15:45 to 17:15 S8 - Round Table: Career Development (SGAHE)
16.00		16.00	
17.00		17.00	
17:15 to 18:30 City Tour			
	18.00	18.00	18.00
	18:30 to 19:15 S9 - EFEM Prize Lecture		
19.00		19.00	19.00
19:30 to 22:00 Get together			

Program at a glance - September 26, 2024

Room: Exhibition and break area	Room: Planner von Plan N UI III	Room: Hyrtl A EG 113	Room: Dissection South N 01 02P
9.00	09:00 to 09:45 S10 - Keynote Lecture: Embryology and Cell Biology (SGAHE)	9.00	9.00
09:45 to 10:15 Coffee break	10.00	10.00	10.00
	10:15 to 11:45 S11 - Embryology and Cell Biology (SGAHE)	10:15 to 11:45 S12 - Imaging (AG)	
11.00			11.00
11:45 to 13:45 Lunch break	12.00	12:00 to 13:30 General Assembly SGAHE (only SGAHE members)	11:45 to 13:45 Poster Session I
	13.00		
	13:45 to 15:15 S13 - Cell Biology and Disease (AG)	13:45 to 15:15 S14 - ASE Teaching Session (GANÖ): Advances in undergraduate and postgraduate training	13:45 to 15:15 S15 - FridA (AG)
14.00			
15.00			
15:15 to 15:45 Coffee break	15:45 to 17:15 S16 - Microglia, inflammation and QPA Minisymposium	15:45 to 17:15 S17 - From Bench to Bedside incl. Cancer (SGAHE)	15:45 to 17:15 S18 - Round Table: Challenges of the Future (GANÖ)
16.00			
17.00	17:15 to 19:00 General Assembly AG (only AG members)		
18.00		18.00	18.00
18:30 to 20:00 Campus tour	19.00	19.00	19.00
20:00 to 22:00 Conference Dinner	20.00	20.00	20.00

Program at a glance - September 27, 2024

Room: Exhibition and break area	Room: Planner von Plan N UI III	Room: Hyrtl A EG 113	Room: Dissection South N 01 02P
9.00	09:00 to 09:45 S19 - Keynote Lecture: Neuro Anatomy (AG)	9.00	9.00
09:45 to 10:15 Coffee break			
	10.00	10.00	10.00
	10:15 to 11:45 S20 - Imaging (GANÖ)	10:15 to 11:45 S21 - Form-Function Relationship (SGAHE)	
11.00			11.00
11:45 to 13:45 Lunch break			11:45 to 13:45 Poster Session II
	12.00	12.00	
	13.00	13.00	
	13:45 to 15:15 S22 - Young Investigator Session		
14.00		14.00	14.00
15.00		15.00	15.00
15:15 to 15:45 Coffee break		15:15 to 15:45 General Assembly GANÖ (only GANÖ members)	
	15:45 to 17:15 S23 - Digital and AI Tools in Teaching (SGAHE)	15:45 to 17:15 S24 - Neuroanatomy (GANÖ)	15:45 to 17:15 S25 - Round Table: Terminology (AG)
16.00			
17.00	17:15 to 18:00 S26 - Award Ceremony of the GANÖ, AG, SGAHE		
18.00	18:00 to 18:15 Farewell	18.00	18.00

16:45 - 18:00 | Room: Seminar Room A|EG|114

General Assembly: Young Anatomists (AG)

18:30 - 19:30 | Room: Planner von Plan N|UI|III

Opening Ceremony Dissemination Event

19:30 - 21:00 Get together

09:00 - 09:45 | Room: Planner von Plan N|UI|III

S1: Keynote Lecture: Form-Function Relationship (GANÖ)

Chairs: Wolfgang Weninger (Vienna, Austria), Volker Spindler (Hamburg, Germany)

- 1.1 The desmosome comes into focus
Andrew Kowalczyk (Hershey, United States)

09:45 - 10:15 Coffee break

10:15 - 11:45 | Room: Planner von Plan N|UI|III

S2: Form-Function Relationship (GANÖ)

Chair: Volker Spindler (Hamburg, Germany)

- 2.1 Regulation of planar cell polarity by atypical cadherin Celsr1
Sara Stahley (Hershey, United States)
- 2.2 The microscopic anatomy of the placental villous tree in health and disease
Nirav Barapatre, Christoph Schmitz, Franz Edler Koch, Hans-Georg Frank (Munich, Germany)
- 2.3 On the slow lane: mechanisms underlying the axonal transport of the cytoskeletal protein spectrin
Oliver Glomb (Tübingen, Germany)
- 2.4 LGR-receptor expression in enteric nervous system progenitor cells - fate decision between neural proliferation and neuronal differentiation
Peter Neckel, Melanie Scharr, Simon Scherer, Bernhard Hirt (Tübingen, Germany)
- 2.5 Desmosomal adhesion and protective effects of apremilast in pemphigus are dependent on plakoglobin phosphorylation at serine 665
Franziska Vielmuth, Anna M. Sigmund, Desalegn T. Egu, Matthias Hiermaier, Mariya Y. Radeva, Jens Waschke, Daniela Kugelmann (Munich, Germany)
- 2.6 Elucidating the mechanisms of GPR124/RECK/WNT7 signaling
Robin Heiden (Würzburg, Germany), Süleyman Ergün (Würzburg, Germany), Barbara Braunger (Hamburg, Germany), Mario Vallon (Würzburg, Germany)

10:15 - 11:45 | Room: Hyrtl A|EG|113

S3: Neuroanatomy (AG)

Chair: Maren Engelhardt (Linz, Austria)

- 3.1 Repetitive transcranial magnetic stimulation (rTMS) induces plasticity of excitatory synapses in acute human neocortical slices
Christos Galanis, Andreas Vlachos, Jakob Straehle, Elli Anna Balta, Jürgen Beck (Freiburg, Germany)
- 3.2 Regional heterogeneity of morphology and immune cell accumulation in the leptomeninges
Elise Vankriekelsvenne, Markus Kipp, Sarah Joost (Rostock, Germany)
- 3.3 Identification of different response types to entorhinal denervation by means of repeated time lapse imaging of single dentate granule cells in vitro
Davide Greco, Thomas Deller, Alexander Drakew (Frankfurt am Main, Germany)
- 3.4 Older pigeons show higher neuron numbers than younger pigeons
Julia Mehlhorn, Felix Ströckens, Ilias-Dimitrios Karlaftis, Katrin Amunts, Svenja Caspers (Düsseldorf, Germany)
- 3.5 Maintenance of a central high frequency synapse in the absence of synaptic activity
Sascha Lessle (Heidelberg, Germany), Lena Ebberts (Oldenburg, Germany), Yvette Dörflinger (Heidelberg, Germany), Simone Hoppe (Heidelberg, Germany), Michaela Kaiser (Heidelberg, Germany), Hans Gerd Nothwang (Oldenburg, Germany), Christoph Körber (Heidelberg, Germany)
- 3.6 Single-nucleus RNA-sequencing of the motor cortex in Huntington's disease mice reveals mechanisms of neuronal vulnerability to degeneration
Dennis Feigenbutz (Martinsried, Germany), Irina Dudanova (Cologne, Germany), Rüdiger Klein (Martinsried, Germany)

11:45 - 13:45 | Room: Planner von Plan N|UI|III

S4: Method Section of the Young Anatomists (AG)

Chairs: Camilla Schinner (Hamburg, Germany), Sven Schumann (Neuruppin, Germany)

- 4.1 FLIM-FRET a powerful tool to study protein-protein interactions in living cells
Franziska Köper, Anja Bräuer (Oldenburg, Germany)
- 4.2 Electrophysiological whole-cell patch-clamp recordings of neurons
Pia Kruse (Freiburg, Germany)
- 4.3 Unbiased stereology – quantifying variables in whole organ by studying thin sections
Nirav Barapatre (Munich, Germany)

- 4.4 Chromatin immunoprecipitation sequencing (ChIPseq)
Fabian Gather (Hannover, Germany)
- 4.5 In utero electroporation technique for brain development studies in mice
Nicola Brandt (Oldenburg, Germany), Jan Baumgart (Mainz, Germany), Anja Bräuer (Oldenburg, Germany)
- 4.6 Coursing and terminal ramification of peripheral nerves in gross anatomical specimens – application of the modified Sihler-technique in clinical morphology
Michael Wolf-Vollenbröker, Timm Joachim Filler (Düsseldorf, Germany)
- 4.7 Organotypic slice cultures of the hypothalamic arcuate nucleus as a platform to study the impact of alimentary substances on neurons and glia
H. Horn, A. Lochner, J. Koch (Augsburg, Germany)

Voting and award ceremony - Mentoring Prize of the Young Anatomists
Camilla Schinner (Hamburg, Germany), Sven Schumann (Neuruppin, Germany)

11:45 - 13:45 Lunch break

13:45 - 15:15 | Room: Planner von Plan N|U|I|III

S5: Embryology and Cell Biology (AG)

Chair: Beate Brand-Saberi (Bochum, Germany)

- 5.1 The molecular logic of cell fate control
Martin Leeb (Vienna, Austria)
- 5.2 Prenatal stress affects CXCR4/SDF1 signaling in abdominal wall development
Gabriela Morosan-Puopolo (Bochum, Germany), Martin Bablok (Bochum, Germany), Imadeldin Yahya (Khartoum, Sudan), Morris Gellisch (Bochum, Germany), Beate Brand-Saberi (Bochum, Germany)
- 5.3 Allergens activate tracheal and olfactory tuft cells leading to production of eicosanoids and acetylcholine, eicosanoids subsequently direct stem cell proliferation in the olfactory epithelium
Alexander Perniss, Caitlin Wong, S. Ualiyeva, E. Lemire, J. Boyce, A. Haber, L.G. Bankova (Boston, United States)
- 5.4 Role of Bcl11a transcription factor in cerebellar development
Franziska Anna Seigfried, Anna Kammerer, Anna Dieterich, Tabea-Marie Hohmann, Stefan Britsch (Ulm, Germany)

- 5.5 Generation of a human peripheral nerve model from induced pluripotent stem cells using organoids, assembloids and organ-on-a-chip technology
Philipp Wörsdörfer, Anna Rockel, Peter Spenger, Peter Sperling, Kornelia Kenst, Pinar Keskin Oduncu, Leyla Dogan, Jana Kirchner, Süleyman Ergün (Würzburg, Germany)
- 5.6 Expression of SOD1 and SOD2 antioxidant enzymes in rat preimplantation embryos
Jozef Mihalik, Květuše Lovásová, Ingrid Hodorová (Košice, Slovakia)

13:45 - 15:15 | Room: Hyrtl A|EG|113

S6: Gross Anatomy (GANÖ)

Chair: Ali Mirjalili (Auckland, New Zealand)

- 6.1 Exploring feasibility of nerve transfer techniques in the leg: a translational approach to clinical anatomy research
Nihal Apaydin (Ankara, Turkey)
- 6.2 The effect of functional hemimandibular overload on the inner structure of the mandibular condyle: Exploring a cause of condyle hyperplasia
Viviana Toro-Ibacache (Santiago, Chile), Veronica Iturriaga (Temuco, Chile), Sonja Buvinic (Santiago, Chile), Julian Balanta-MELO (Cali, Colombia), Belgica Vasquez (Temuco, Chile)
- 6.3 Proportional localisation of the peroneal nerve along the fibula
Gloria Hohenberger (Feldbach, Austria), Niels Hammer (Graz, Austria), Marco Maier (Vienna, Austria), Michael Pretterklieber (Graz, Austria), Bettina Pretterklieber (Graz, Austria)
- 6.4 Exploring clinical anatomy of temporal migraine: new insights from zygomaticotemporal nerve mapping
Sophie Theresia Pirchner (Innsbruck, Austria), Erich Brenner (Innsbruck, Austria), Bernhard Moriggl (Innsbruck, Austria), Marit Zwierzina (Innsbruck, Austria), Elisabeth Pechriggl (Innsbruck, Austria), Turkhan Mehdiyev (Innsbruck, Austria), Ali Totonchi (Cleveland, United States), Jeffrey E. Janis (Columbus, United States), Marko Konschake (Innsbruck, Austria)
- 6.5 Developmental organization of the median nerve in fetal period
Gizem Çizmecı (Erlangen, Germany), Kübra Erdoğan (Izmir, Turkey), Mehmet A. Malas (Izmir, Turkey)
- 6.6 Forearm Tendon Variations – a clinical-anatomical mapping for daily clinical practice
Anna Schnapka, Peter Kaiser, Ulrike Seeher, Gernot Schmidle, Hanne-Rose Honis, Elisabeth Pechriggl, Marit Zwierzina, Rohit Arora, Marko Konschake (Innsbruck, Austria)

15:15 - 15:45 Coffee break

15:45 - 17:15 | Room: Planner von Plan N|UI|III

S7: Form-Function Relationship (AG)

Chair: Ivan Varga (Bratislava, Slovakia)

- 7.1 The newborn infant is not a miniature adult; form and function
Ali Mirjalili (Auckland, New Zealand)

- 7.2 Macromechanical characterization of the broad ligament in young and aged women
Annika vom Scheidt (Graz, Austria), Till Elsner (Graz, Austria), Justyna A. Niestrawska (Graz, Austria), Dustin Möbius (Hamburg, Germany), Benjamin Ondruschka (Hamburg, Germany), Gundula Schulze-Tanzil (Nuremberg, Germany), Niels Hammer (Graz, Austria)

- 7.3 Biomechanically testing external fixators for the treatment of pelvic injury type AO 61 C1.3a
Annika Meuser (Graz, Austria), Andreas Höch (Leipzig, Germany), Petr Henyš (Liberec, Czech Republic), Christian Kleber (Leipzig, Germany), Daniel Haspinger (Graz, Austria), Axel Gänsslen (Wolfsburg, Germany), Niels Hammer (Graz, Austria)

- 7.4 Region- and direction-specific mechanical tensile properties of the human oral mucosa
Daniel Ch. Haspinger, Sabine Otto, Carolina Radetzky, Justyna A. Niestrawska, Teresa M. Pirker, Martin Siwetz, Norbert Jakse, Niels Hammer, Veronica Antipova (Graz, Austria)

- 7.5 Changes to the subtalar joint space in maximum positions of the ankle joint
Lena Hirtler, Johannes Mittendorfer (Vienna, Austria)

- 7.6 Impact of cementless "Zweymüller" stem anteversion on primary stability and periprosthetic fracture predilection in total hip arthroplasty-biomechanical study on artificial bone model
Tomislav Cengic, Domagoj Delimar, Janos Kodvanj (Zagreb, Croatia)

15:45 - 17:15 | Room: Dissection South N|01|02P

S8: Round Table: Career Development (SGAHE)

Chair: Luis Filguera (Fribourg, Switzerland)

Participants:

Christian Hammer (Fribourg, Switzerland)

Lena Hirtler (Vienna, Austria)

Katharina Kreissl (Linz, Austria)

Niels Hammer (Graz, Austria)

18:30 - 19:15 | Room: Planner von Plan N|UI|III

S9: EFEM Prize Lecture

Chair: Fabio Quondamatteo (Dublin, Ireland)

- 9.1 The sources of neuronal cell types: brain regionalization possibilities beyond His's
 Längszonen within the prosomeric model
 Luis Puelles (Murcia, Spain)

19:30 - 22:00 Get together

09:00 - 09:45 | Room: Planner von Plan N|UI|III

S10: Keynote Lecture: Embryology and Cell Biology (SGAHE)

Chair: Nadia Mercader (Bern, Switzerland)

- 10.1 Frogs to the rescue – insights into kidney disease mechanisms using an unconventional model organism
Sören Lienkamp (Zurich, Switzerland)

09:45 - 10:15 Coffee break

10:15 - 11:45 | Room: Planner von Plan N|UI|III

S11: Embryology and Cell Biology (SGAHE)

Chair: Nadia Mercader (Bern, Switzerland)

- 11.1 A tale of two losses: congenital oligodactyly and the evolutionary diversification of digit patterns
Aimée Zuniga, Victorio Palacio, Anna Pancho, Angela Morabito, Jonas Malkmus, Zhisong He, Rolf Zeller, Barbara Treutlein (Basel, Switzerland)
- 11.2 Prenatal glucocorticoid exposure compromises second heart field formation and further cardiac development
Martin Bablok, Morris Gellisch, Beate Brand-Saberi, Gabriela Morosan-Puopolo (Bochum, Germany)
- 11.3 Self-organising human pluripotent stem cell derivatives model the developmental interactions between the heart and cranial peripheral nervous system
Roxana Deleanu, Elisabeth Pechriggl, Paul Köfler (Innsbruck, Austria)
- 11.4 Combining single-cell and spatial transcriptomics identifies the cellular niche Component Impeding Brain Regeneration
Jovica Ninkovic (Plannegg (München), Germany)
- 11.5 Mediolateral polarity of the neural plate precedes the dorsoventral neural patterning
Nikoloz Tsikolia (Göttingen, Germany)
- 11.6 Development of an in vitro culture model of astrocytes from human brain biopsies to study astrocyte cell biology
Maik Hintze (Erlangen, Germany), Rittika Chunder (Bonn, Germany), Stefanie Kürten (Bonn, Germany), Valeri Borger (Bonn, Germany), Albert Becker (Bonn, Germany)

10:15 - 11:45 | Room: Hyrtl A|EG|113

S12: Imaging (AG)

Chair: Wolfgang Weninger (Vienna, Austria)

12.1 S-HREM for imaging organoids

Stefan Geyer, Lavinia Ceci Ginistrelli, Tobias Ilmer, Karoline Schwendt,
Sasha Mendjan, Wolfgang Weninger (Vienna, Austria)

12.2 The influence of exosomes on NRF2 activity after spinal cord injury

Julia-Marie Meier (Aachen, Germany), Adib Zendejdel (Basel, Switzerland),
Nima Sanadgol (Aachen, Germany), Natalie Tillmann (Bonn, Germany),
Miriam Scheld (Aachen, Germany), Cordian Beyer (Aachen, Germany), Thomas Pufe
(Aachen, Germany), Robin Maurice Semrau (Aachen, Germany), Athanassios
Fragoulis (Aachen, Germany)

**12.3 Three-dimensional organization of connexin clusters along axonal cisternal organelle
networks in human pyramidal neurons**

Jan Maximilian Janssen (Linz, Austria), Giulia Glatting (Mannheim, Germany),
Christian Thome (Linz, Austria), Tobias Herbinger (Linz, Austria), Harald Stefanits
(Linz, Austria), Anna Hauser (Linz, Austria), Philip R. Rauch (Linz, Austria),
Andreas Gruber (Linz, Austria), Florence Pelletier (Marseille, France),
Christophe Leterrier (Marseille, France), Maren Engelhardt (Linz, Austria)

**12.4 Visualizing wall movements of the seminiferous tubules in the testis – differential
patterns and relaxing effects**

Andrea Mietens (Giessen, Germany), Christine Rager (Parkville, Australia),
Alexander Ernst (Giessen, Germany), Sabine Tasch (Giessen, Germany),
Ralf Middendorff (Giessen, Germany)

11:45 - 13:45 Lunch break

11:45 - 13:45 | Room: Dissection South N|01|02P

P1: Poster Session I

Poster Numbers: P1.01 - P2.36, P5.31, P7.02

To read the poster abstracts please go to the Poster Session in the [online agenda](#) and open
them within the session.

12:00 - 13:30 | Room: Hyrtl A|EG|113

General Assembly SGAHE (only SGAHE members)

13:45 - 15:15 | Room: Planner von Plan N|U|I|III

S13: Cell Biology and Disease (AG)

Chair: Jens Waschke (Munich, Germany)

- 13.1 Mechanisms and translational approaches to overcome endothelial barrier dysfunction in inflammation
Nicolas Schlegel (Würzburg, Germany)

- 13.2 Apremilast enhances cardiomyocyte cohesion in a plakoglobin-dependent manner and may have therapeutic potential to treat arrhythmogenic cardiomyopathy
Sunil Yeruva (Munich, Germany), Konstanze Stangner (Munich, Germany), Orsela Dervishi (Munich, Germany), Janina Kuhnert (Munich, Germany), Carl Wendt (Munich, Germany), Maria Shoykhet (Munich, Germany), Sina Moztaizadeh (Munich, Germany), Soumyata Pathak (Munich, Germany), Ruth Biller (Unterschleißheim, Germany), Tomo Šarić (Cologne, Germany), Jens Waschke (Munich, Germany)

- 13.3 Mechanical characterization of diseased blood vessel walls by using pipette aspiration test and pressure-imposed test
Toshiro Ohashi (Sapporo, Japan)

- 13.4 Identification of molecular drivers of prostate cancer bone metastasis in vivo
Marie-Therese Haider (Hamburg, Germany), Vera Freytag (Hamburg, Germany), Kristoffer Riecken (Hamburg, Germany), Hanna Maar (Hamburg, Germany), Tobias Gosau (Hamburg, Germany), Michael Horn (Hamburg, Germany), Udo Schumacher (Berlin, Germany), Tobias Lange (Jena, Germany)

- 13.5 KRASG12D-driven early pancreatic carcinogenesis and associated natural killer cell impairment are influenced by sex
Elise Arlt (Halle/Saale, Germany), Teresa Vauti (Halle/Saale, Germany), Andreas Schmidt (Halle/Saale, Germany), Helmut Laumen (Halle/Saale, Germany), Nico Hesselbarth (Halle/Saale, Germany), Markus Morawski (Leipzig, Germany), Anne-Kristin Fritsche (Leipzig, Germany), Martin Gericke (Leipzig, Germany), Karsten Winter (Leipzig, Germany), Heike Kielstein (Halle/Saale, Germany), Ivonne Bazwinsky-Wutschke (Halle/Saale, Germany)

- 13.6 Identification of pro-adhesive drugs and implications for arrhythmogenic cardiomyopathy
Camilla Schinner (Bern, Switzerland), Pauline Hanns (Basel, Switzerland), Ramon Castellanos-Martinez (Basel, Switzerland), Robin Colpaert (Hannover, Germany), Frauke Weidner (Hannover, Germany), Franziska Matthias (Hannover, Germany), Lifan Xu (Basel, Switzerland)

13:45 - 15:15 | Room: Hyrtl A|EG|113

S14: ASE Teaching Session (GANÖ): Advances in undergraduate and postgraduate training

Chair: Jessica N. Byram (Indianapolis, United States)

- 14.1 Advances in undergraduate and postgraduate training – an overview on traditional and innovative teaching in modern medical curricula from a national and international view
Elisabeth Eppler (Bern, Switzerland)

- 14.2 Novel fixatives for anatomical embalming – a study on morphological and antimicrobial preservation effects based on low-toxic food preservatives
Jonas Keiler (Rostock, Germany), Philipp Warnke (Rostock, Germany), Markus Kipp (Rostock, Germany), Lilli Jazosch (Rostock, Germany), Sebastian Scheibel (Rostock, Germany), Frederik Venghaus (Rostock, Germany), Marzia Venuto (Rostock, Germany), Stefan Milz (Munich, Germany), Antje Bast (Rostock, Germany)

- 14.3 Clay brain modelling; a bridge between 2D neuroanatomical atlases and 3D human brain dissection?
Ben Gorissen, Moniek Munneke, Ilse Arnoldussen (Nijmegen, Netherlands)

- 14.4 Improving injection efficiency in cadaveric donors: a preliminary study using ultrasound for the carotid artery approach
Zygmunt Domagała, Mateusz Mazurek, Victoria Tarkowski, Agnieszka Pinkowska, Malgorzata Suchanecka, Dominika Domagała, Mateusz Drazyk, Oliwier Pioterek, Slawomir Wozniak (Wroclaw, Poland)

- 14.5 Risk of body donor colonization by microorganisms after reduction of formaldehyde
Christina Nassenstein (Giessen, Germany), Katharina Druckenmüller (Sankt Augustin, Germany), Ingrid Thullner (Frankfurt, Germany), Annette Kolk (Sankt Augustin, Germany), Hans Hieke (Giessen, Germany)

- 14.6 Aminolipin®-update: current status & future plans
Bernhard Hirt, Peter H. Neckel, Ruth Ladurner, Lothar Just, Corinna Gleiser, Sebastian Streich (Tübingen, Germany)

13:45 - 15:15 | Room: Dissection South N|01|02P

S15: FRIDA (AG)

Chair: Carola Meier (Homburg / Saar, Germany)

15:15 - 15:45 Coffee break

15:45 - 17:15 | Room: Planner von Plan N|UI|III

S16: Microglia, Inflammation and QPA Mini symposium

Chair: Barbara Braunger (Hamburg, Germany)

16.1 SMAD4 is essential for microglia homeostasis and activation
Björn Spittau (Bielefeld, Germany)

16.2 Microglia induce changes in myelin composition of the perforant path during neuroinflammation
Amelie Eichler (Hannover, Germany), Larissa Klukas (Hannover, Germany), Christina Prinz (Hannover, Germany), Maximilian Lenz (Hannover, Germany)

16.3 EGFL7, an angiogenic protein, acts as an immunosuppressive factor in glioma development
Sukrit Mahajan (Dresden, Germany), Mirko Schmidt (Dresden, Germany), Ulrike Schumann (Dresden, Germany)

16.4 Catalytic antibodies in arrhythmogenic cardiomyopathy patients cleave desmoglein 2 and N-cadherin and impair cardiomyocyte cohesion
Sunyl Yeruva (Munich, Germany)

16.5 Direction selectivity of inhibitory interneurons in mouse barrel cortex differs between interneuron subtypes
Julian Guy (Göttingen, Germany)

16.6 Regulation of hippocampal mossy fiber-CA3 synapse function by a Bcl11b/C1ql2/Nrxn3(25b+) pathway
Artemis Koumoundourou (Leuven, Belgium)

16.7 A new immortalized human lacrimal gland cell line
Sopie Gleixner (Erlangen, Germany)

16.8 TBA
Katharina Jüngert (Erlangen, Germany)

15:45 - 17:15 | Room: Hyrtl A|EG|113

S17: From Bench to Bedside incl. Cancer (SGAHE)

Chair: Sara Sabatasso (Lausanne, Switzerland)

- 17.1 Microbeam Technology: how anatomists can contribute to the fight against cancer
Cristian Fernandez-Palomo, Valentin Djonov (Bern, Switzerland)

- 17.2 Targeted proteomics upon Tofersen identifies candidate response markers for SOD1-ALS
Alberto Catanese (Ulm, Germany)

- 17.3 Loss of intestinal epithelial plakoglobin activates innate immune response by p38MAPK-dependent activation of the inflammasome
Nicolas Schlegel (Wuerzburg, Germany), Matthias Kelm (Wuerzburg, Germany), Marius Hörner (Wuerzburg, Germany), Natalie Burkard (Wuerzburg, Germany), Catherine Kollmann (Wuerzburg, Germany), Friedrich Forchel (Wuerzburg, Germany), Sven Flemming (Wuerzburg, Germany), Jens Waschke (Munich, Germany), Alexander Garcia Ponce (Munich, Germany), Brenda Gerull (Wuerzburg, Germany), Christoph Otto (Wuerzburg, Germany), Kai Kretzschmar (Wuerzburg, Germany)

- 17.4 Epac1 regulates keratinocyte adhesion and is involved in apremilast-mediated protective effects in pemphigus
Anna Sigmund, Franziska Vielmuth, Franziska Bayerbach, Daniela Kugelman, Elisabeth Butz, Margarethe Schikora, Sina Moztarzadeh, Jens Waschke (Munich, Germany)

- 17.5 New translational research tools to target β -glucocerebrosidase in Parkinson's disease
Philipp Arnold (Erlangen, Germany), Friederike Zunke (Erlangen, Germany), Jan-Philipp Dobert (Erlangen, Germany), Jan-Hannes Schäfer (Osnabrück, Germany), Thomas Del Maso (Brussels, Belgium), Eileen Socher (Erlangen, Germany), Friedrich Paulsen (Erlangen, Germany), Wim Versees (Brussels, Belgium), Arne Möller (Osnabrück, Germany)

- 17.6 Deciphering the dark side of autophagy to provide neuroprotection in perinatal brain injuries
Julien Puyal (Lausanne, Switzerland)

15:45 - 17:15 | Room: Dissection South N|01|02P

S18: Round Table: Challenges of the Future (GANÖ)

Chair: Marko Konschake (Innsbruck, Austria)

17:15 - 19:00 | Room: Planner von Plan N|UI|III

General Assembly AG (only AG members)

20:00 - 22:00 Conference Dinner

09:00 - 09:45 | Room: Planner von Plan N|UI|III

S19: Keynote Lecture: Neuroanatomy (AG)

Chair: Stefan Britsch (Ulm, Germany)

- 19.1 Super-resolution imaging of the extracellular space in the brain
Valentin Nägerl (Bordeaux, France)

09:45 - 10:15 Coffee break

10:15 - 11:45 | Room: Planner von Plan N|UI|III

S20: Imaging (GANÖ)

Chair: Ming Zhang (Dunedin, New Zealand)

- 20.1 Mesoscale visualization of the nervous system: from brain to body
Guoqiang Bi (Hefei, China), Lau Pakming (Shenzhen, China)
- 20.2 Mesoscopic anatomy of the human deep fascia and its surgical applications
Ming Zhang (Dunedin, New Zealand)
- 20.3 Retrocolic fascia - an MDCTA morphometric analysis in patients with right colon cancer
Bojan Stimec (Geneva, Switzerland), Antoine Chemtob (Geneva, Switzerland),
Dejan Ignjatovic (Oslo, Norway)
- 20.4 The connectives surrounding the median nerve should be more than an unstructured filler. We describe spaces, and subspaces, divided and both connected by describable structures
Hanno Steinke (Leipzig, Germany), Dennis Aliev (Leipzig, Germany), Karsten Winter (Leipzig, Germany), Jeanette Henkelmann (Leipzig, Germany), Martin Franz Langer (Münster, Germany)
- 20.5 Sacroiliac joint motion focused on articular surface morphology: Healthy and dysfunctional joints
Ryota Toyohara, Toshiro Ohashi (Sapporo, Japan)
- 20.6 Source and course of the iliohypogastric, ilioinguinal and lateral femoral cutaneous nerves in relation to surgical approaches to the vertebral column and hip joint
Carina Sophie Anzinger, Bettina Pretterklieber, Michael Pretterklieber (Graz, Austria)

10:15 - 11:45 | Room: Hyrtl A|EG|113

S21: Form-Function Relationship (SGAHE)

Chair: Sara Sabatasso (Lausanne, Switzerland)

- 21.1 Nanomotion imaging as a diagnostic tool
Sandor Kasas (Lausanne, Switzerland)
- 21.2 Unraveling the intrinsic regeneration mechanisms of lacrimal gland acinar epithelial cells for therapeutic applications in aqueous-deficient dry eye
Ingrid Zahn, Hannah Franke, Sophie Gleixner, Jana Dietrich, Friedrich Paulsen, Philipp Arnold (Erlangen, Germany)
- 21.3 The thyroarytenoid muscle as a distinctive morphofunctional entity in the context of voice research
Rareş-Vasile Traciaru (Iasi, Romania), Marius-Valeriu Hînganu (Iasi, Romania), Friedrich Paulsen (Erlangen, Germany), Lars Bräuer (Erlangen, Germany), Michael Döllinger (Erlangen, Germany), Delia Hînganu (Iasi, Romania), Manuela Petronela Traciaru (Iasi, Romania)
- 21.4 Host brain initiates rapid bacterial adaptive response with capsular thickening and better immune resistance
Asparouh Iliev, Sabrina Hupp, Nikola Tomov (Bern, Switzerland)
- 21.5 Respiratory skeletal muscle degeneration in Covid-19 patients
Laura Steingruber, Franziska Schweiger, Simona Handtke, Stefan Schiele, Stefania Petra, Florian Krabichler, Bruno Märkl, Marco Koch (Augsburg, Germany)
- 21.6 Role of peroxisomes in type 2 alveolar epithelial cells and surfactant synthesis in the lung
Mohammad Rashedul Alam, Eveline Baumgart-Vogt (Giessen, Germany)

11:45 - 13:45 Lunch break

11:45 - 13:45 | Room: Dissection South N|01|02P

P2: Poster Session II

Poster Numbers: P3.01 – P10.02

To read the poster abstracts please go to the Poster Session in the [online agenda](#) and open them within the session.

13:45 - 15:15 | Room: Planner von Plan N|UI|III

S22: Young Investigator Session

Chair: Stefan Britsch (Ulm, Germany)

- 22.1 Deciphering amyotrophic lateral sclerosis linked to NEK1 mutations
Anna Ponomarenko, David Brenner, Alberto Catanese, Iris Petrut, Sofia Beyrle (Ulm, Germany)
- 22.2 p38MAPK-mediated signaling contributes to early pathogenic effects of autoantibodies in pemphigus vulgaris
Michael Fuchs, Jens Waschke, Miriam Möchel (München, Germany), Mariya Radeva (Munich, Germany)
- 22.3 Hyalocytes are yolk sac derived tissue resident macrophages of the vitreous
Jana Koch (Augsburg, Germany), Dennis-Dominik Rosmus (Augsburg, Germany), Annika Hausmann (Freiburg, Germany), Aude Chiot (Portland , United States), Franz Arnold (Leipzig, Germany), Takahiro Masuda, Katrin Kierdorf, Stefanie Marie Hansen (Freiburg, Germany), Heidrun Kuhrt (Leipzig, Germany), Janine Fröba (Leipzig, Germany), Julian Wolf (Freiburg, Germany), Stefaniya Boneva (Freiburg, Germany), Martin Gericke (Leipzig, Germany), Bahareh Ajami (Portland , United States), Marco Prinz (Freiburg, Germany), Clemens Lange (Freiburg, Germany), Peter Wieghofer (Augsburg, Germany)
- 22.4 SERPINB5-TGF- β signalling modulates desmosomal adhesion and ameliorates skin blistering phenotypes
Maitreyi Rathod (Hamburg, Germany), Volker Spindler (Hamburg, Germany), Aude Zimmerman (Basel, Switzerland), Henriette Franz (Basel, Switzerland), Tomás Cunha (Marburg, Germany), Dario Didono (Marburg, Germany), Michael Hertl (Marburg, Germany), Enno Schmidt (Lübeck, Germany)
- 22.5 The influence of bilingualism on gray matter volume within subregions of the hippocampal formation
Katharina Peitz (Düsseldorf, Germany), Nora Bittner (Düsseldorf, Germany), Stefan Heim (Aachen, Germany), Svenja Caspers (Düsseldorf, Germany)
- 22.6 Chronic blockade and optogenetic stimulation of synaptic activity alters dendritic dynamics and spinogenesis in postnatally born hippocampal granule cells
Lukas Frey, Sophia Kirscht, Mathias Singer, Tijana Hanauske, Tassilo Jungenitz, Thomas Deller, Stephan Wolfgang Schwarzacher (Frankfurt am Main, Germany)
- 22.7 CEACAM1 – novel mediator of atherosclerotic plaque progression
Lisa Götz, Florian Kleefeldt, Uwe Rueckschloss, Heike Bömmel, Süleyman Ergün (Wuerzburg, Germany)

- 22.8 Regional differences of (induced) vas deferens contractility and its implications for sperm propulsion
Beatrix Bester, Helena Baum, Nina Hagler, Ralf Middendorff (Giessen, Germany)

15:15 - 15:45 Coffee break

15:15 - 15:45 | Room: Hyrtl A|EG|113

General Assembly GANÖ (only GANÖ members)

15:45 - 17:15 | Room: Planner von Plan N|UI|III

S23: Digital and AI Tools in Teaching (SGAHE)

Chair: Magdalena Müller-Gerbl (Basel, Switzerland)

- 23.1 Behind the scenes: nine years of mastering Cinematic Rendering in the classroom
Franz A. Fellner (Linz, Austria), Julian F. Niedermair (Linz, Austria), Niels Hammer (Graz, Austria)
- 23.2 Post-mortem imaging and 3D printing as complementary tools for the teaching of morphology at the Faculty Unit of Anatomy and Morphology in Lausanne
Stella Fahrni, Sara Sabatasso, Michel Kielar, Sami Schranz, Silke Grabherr (Lausanne, Switzerland)
- 23.3 Innovative learning applications in anatomy
Christa Maurer, Niels Hammer (Graz, Austria)
- 23.4 Cinematic Rendering-aided virtual anatomy teaching improves students' knowledge of radiological anatomy
Julian F. Niedermair (Linz, Austria), Niels Hammer (Graz, Austria), Franz A. Fellner (Linz, Austria)
- 23.5 Decline in anatomy grades: analysis of trends for different exam components over the last decade
Ivica Grković, Mirko Armanda (Split, Croatia)
- 23.6 Knowledge retention of undergraduate medical students in regional anatomy following a one-month gross anatomy course setting
Veronica Antipova (Graz, Austria), Martin Siwetz (Graz, Austria), Maren Engelhardt (Linz, Austria), Franz A. Fellner (Linz, Austria), Simone Manhal (Graz, Austria), Julian F. Niedermair (Linz, Austria), Benjamin Ondruschka (Hamburg, Germany), Amélie J. Poilliot (Basel, Switzerland), Andreas Wree (Rostock, Germany), Niels Hammer (Graz, Austria)

15:45 - 17:15 | Room: Hyrtl A|EG|113

S24: Neuroanatomy (GANÖ)

Chair: Anne Albrecht (Magdeburg, Germany)

- 24.1 Diversity of proximal axon geometry in the mouse and human hippocampus
Christian Thome (Linz, Austria), N.A. Stevens (Heidelberg, Germany), Juri Monath (Linz, Austria), Maximilian F. Achilles (Linz, Austria), Harald Stefanits (Linz, Austria), Anna Hauser (Linz, Austria), Philip R. Rauch (Linz, Austria), Andreas Gruber (Linz, Austria), Rupert Langer (Linz, Austria), M. Both (Heidelberg, Germany), Maren Engelhardt (Linz, Austria)
- 24.2 Morphology of perforant path-granule cell synapses in the murine hippocampus across developmental stages
Elena Niggetiedt, Christine Martin, Max Anstötz (Düsseldorf, Germany)
- 24.3 Influence of clinical parameters on the structure and function of superficial pyramidal neurons in the adult human neocortex
Pia Kruse (Freiburg, Germany), Amelie Eichler (Hannover, Germany), Maximilian Lenz (Hannover, Germany), Jakob Strähle (Freiburg, Germany), Hanna Hemeling (Freiburg, Germany), Phyllis Stöhr (Freiburg, Germany), Jürgen Beck (Freiburg, Germany), Andreas Vlachos (Freiburg, Germany)
- 24.4 Uniform intralaminar but specific translaminar disinhibitory circuit motifs of L5 SST neurons in mouse barrel cortex
Jochen Staiger, Felix Preuss, Mirko Witte, Martin Möck (Göttingen, Germany)
- 24.5 The tail of the ventral tegmental area (tVTA)/Rostromedial tegmental nucleus (RMTg)
Alessandro Bilella (Bern, Switzerland), Michel Barrot (Strasbourg, France)
- 24.6 Fecal microbiota transplantation of patients with anorexia nervosa in an activity-based anorexia animal model
Mai Tran (Aachen, Germany), Clara Voelz (Aachen, Germany), Larissa Käver (Aachen, Germany), Nele Korten (Aachen, Germany), Anna Schulze Eckel (Aachen, Germany), Cordian Beyer (Aachen, Germany), Jochen Seitz (Essen, Germany), Stefanie Trinh (Aachen, Germany)

15:45 - 17:15 | Room: Dissection South N|01|02P

S25: Round Table: Terminology (AG)

Chair: Michael Pretterklieber (Graz, Austria)

Participants:

Luis Filguera (Fribourg, Switzerland)

Ivan Varga (Bratislava, Slovakia)

Hans J. Ten Donkelaar (Doorwerth, Netherlands)

17:15 - 18:00 | Room: Planner von Plan N|UI|III

S26: Award Ceremony of the GANÖ, AG, SGAHE

18:00 - 18:15 | Room: Planner von Plan N|UI|III

Farewell