

In memory of Koelliker's 200th birthday



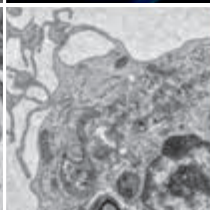
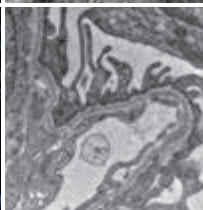
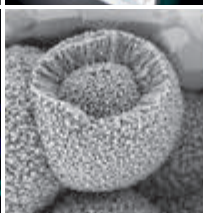
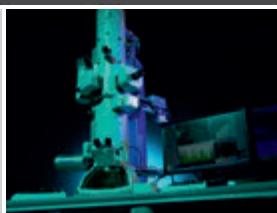
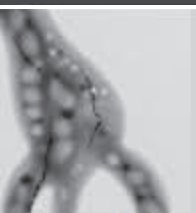
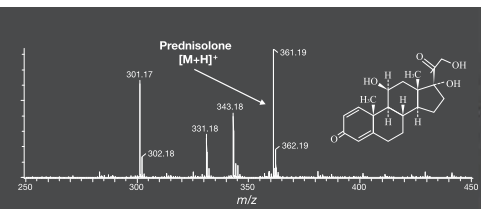
Rudolf Albert von Koelliker



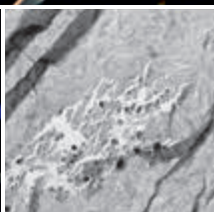
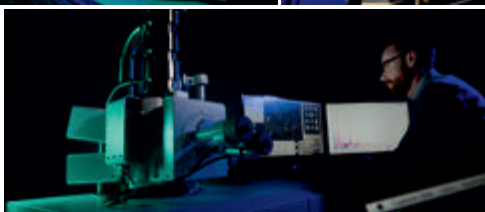
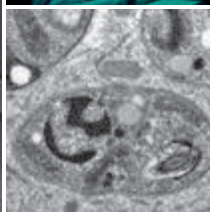
112th Annual Meeting / 32. Arbeitstagung
der Anatomischen Gesellschaft

20. bis 22. September 2017

Institut für Anatomie und Zellbiologie
der Universität Würzburg



The Art of Technical (R)evolution -
Welcome to the next level of Electron
Microscopes & Analytical Instruments



TAGUNGSORT/CONGRESS VENUE

Julius-Maximilians-Universität, Institut für Anatomie und Zellbiologie,
Koellikerstraße 6, D-97070 Würzburg

Telefon/Phone: +49(0)931-31 82 706 Telefax/Fax: +49(0)931-31 82 712
E-mail: anat015@mail.uni-wuerzburg.de

Das Tagungsbüro befindet sich im Institut und ist am Mittwoch, dem 20. September 2017, ab 8:00 Uhr, geöffnet.

The meeting office is located in the building of the Institute of Anatomy and Cell Biology and is opened from 8:00 am on September 20, 2017.



Gastgeber/Organizer:

Prof. Dr. med. Süleyman Ergün

Institut für Anatomie und Zellbiologie
Julius-Maximilians-Universität Würzburg
Koellikerstraße 6
D-97070 Würzburg

DiATOME

Swiss Diamonds Knives

Best cutting results at room- and cryo temperatures

Please allow us to help you choose the appropriate knife type from our large range for your specific application.



DiATOME AG

P.O. Box
CH 2501 Biel / Switzerland
Phone +41 (0)32 332 91 13
diatome@diatome.ch
www.diatome.ch

REDEZEITEN

Für jeden Vortrag stehen 15 Minuten zur Verfügung, davon sind maximal 10 Minuten für den Vortrag und maximal 5 Minuten für die Diskussion vorgesehen. Im Interesse der planmäßigen Durchführung der Tagung wird gebeten, diese Zeiten einzuhalten.

ORT DER VORTRÄGE

Die Vorträge finden im kleinen Hörsaal des Instituts statt.

PROJEKTION

Die Vorträge sollen mittels Beamer als Power-Point-Dateien präsentiert werden. Die Vortragenden werden gebeten, ihre Daten auf geeigneten Medien (USB-Stick oder CD) mitzubringen und rechtzeitig vor den entsprechenden Sitzungen im Hörsaal auf den Hörsaalrechner aufspielen zu lassen. Sollten Sie spezielle Fragen haben, wenden Sie sich bitte an Herrn PD Dr. Stefan Hübner in der Würzburger Anatomie, Telefon ++49(0)931 – 31 81311 (stefan.huebner@uni-wuerzburg.de). Das Mitbringen eigener Notebooks zur Vortragspräsentation ist nicht erwünscht.

WISSENSCHAFTLICHE AUSSTELLUNG – POSTER

Für die wissenschaftliche Ausstellung (Posterbeiträge) stehen Naturholzplatten (Höhe 125 cm, Breite 125 cm) zur Verfügung. Die Befestigung von Postern kann mittels Heftzwecken/Reißnägeln an den Stellwänden erfolgen. Dieses Material bitte selbst mitbringen.

ABHOLUNG – POSTER

Um einen reibungslosen Ablauf zu gewährleisten, müssen folgende zeitliche Rahmenbedingungen eingehalten werden.

Am Donnerstag, 21. September bis Vortragsbeginn in Eigenregie die Poster vom Mittwoch, 20. September entfernen.

Am Freitag, 22. September bis Vortragsbeginn in Eigenregie die Poster vom Donnerstag, 21. September entfernen.

GEPÄCKAUFBEWAHRUNG

Das Institut für Anatomie und Zellbiologie bietet die Möglichkeit während der Tagung das Gepäck aufzubewahren. Das Institut übernimmt keine Haftung. Dieser Raum befindet sich im Kellergeschoss und wird im zeitlichen Rahmen der Vorträge abgeschlossen sein.

HOTELRESERVIERUNG

Sofern Sie noch kein Hotelzimmer gebucht haben, wenden Sie sich bitte umgehend an das

Eigenbetrieb Congress - Tourismus - Würzburg
Am Congress Centrum, D-97070 Würzburg
Telefon: ++49 (0)931-37 23 35
Fax: ++49 (0)931-37 36 52

oder an die

Privat-Zimmer-Vermittlung– Telefon: ++49 (0)931 – 404 56 09

Es wird darauf aufmerksam gemacht, dass während unserer Tagungszeit noch andere Veranstaltungen in Würzburg stattfinden. Es empfiehlt sich also, sich umgehend um ein Hotelzimmer zu kümmern.

MAHLZEITEN

Mittagessen kann in einem der zahlreichen Restaurants in der Umgebung des Instituts eingenommen werden. Eine Liste der Restaurants wird mit den Kongressunterlagen bei der Anmeldung in Würzburg ausgehändigt. Getränke, Kuchen und belegte Brötchen werden im Institut angeboten.

ABSTRACTS

Die Kurzfassungen (Abstracts) der eingereichten Beiträge werden auf der Homepage der Anatomischen Gesellschaft (www.anatomische-gesellschaft.de) als PDF-file auf die Seite gestellt, können dort eingesehen werden und werden mit einer DOI-Nummer versehen. Sie sind damit zitierfähig.

ANSCHRIFT DES SCHRIFTFÜHRERS

Prof. Dr. med. Friedrich Paulsen
Institut für Anatomie LST II
Friedrich-Alexander-Universität Erlangen-Nürnberg
Universitätsstraße 19
D-91054 Erlangen

Telefon: ++49 (0)9131 – 852 2865

Fax: ++49 (0)9131 – 852 2862

E-mail: friedrich.paulsen@fau.de

Homepage: www.anatomische-gesellschaft.de

Der Schriftführer steht jederzeit gerne für Auskünfte zur Verfügung.

Titelseite/Cover Page:

Rudolf Albert von Koelliker: Vorstand des Instituts, 1847 -1903

Chair of the Institute, 1847 - 1903

12:00 – 12:15 **Eröffnung / Opening words**

12:15 – 12:30 **Andreas Mettenleiter**, Siebold Museum, *Würzburg*
Vortrag/Lecture: 200th birthday of A. Koelliker

12:30 – 13:30 **Kenneth R. Chien**, *Harvard Medical School and
Karolinska Institute, Boston/Stockholm (USA/Sweden)*
Koelliker-Lecture I: Human Cardiogenesis: Building
and rebuilding the primate heart

13:30 – 14:00 **Pause/Break**

14:00 – 16:00 **Vorträge/Lectures 1-8**
Cell and Stem Cell Biology / Developmental Biology I

- 1** **Islinger M., Costello J.L., Castro I., Manner A., Hacker C., Schrader T.A., Metz J., Zeuschner D., Azadi A.S., Godinho L.F., Costina V., Findeisen P., Schrader M.** *Mannheim, Münster, Exeter (UK)*
ACBD5 and VAPB mediate membrane contact zones between peroxisomes and the ER
- 2** **Siegerist F., Ribback S., Dombrowski F., Amann K., Zimmermann U., Endlich K., Endlich N.** *Greifswald and Erlangen*
Super resolution microscopy and automatized digital image processing as a novel and rapid diagnostic tool for podocyte foot process effacement
- 3** **Deckmann K., Kandel C., Schulz L., Rafiq A., Scholz P., Baumgart S., Kummer W.** *Giessen and Bochum*
Rise of urethral brush cells
- 4** **Braunger B.M., Schlecht A., Leimbeck S.V.** *Regensburg*
Deletion of endothelial TGF- β signaling causes choroidal neovascularization
- 5** **Schinner C., Erber B., Co T.K., Radeva M.Y., Waschke J.** *Munich*
PKA-mediated phosphorylation of plakoglobin at s665 is required for positive adhesiotropy in cardiomyocytes and may enhance gap junction function

-
- 6** **Eckert P., Schütz L., Wittbrodt J., Heermann S.** *Freiburg and Heidelberg*
Morphogenesis of the optic fissure margins is setting the stage for consecutive fusion, pioneered by a distinct subset of margin cells using a hyaloid vessel as scaffold
- 7** **Wilson R., Geyer S., Reissig L., Rose J., Szumska D., Hardman E., Prin F., McGuire C., Ramirez-Solis R., White J., Galli A., Tudor C., Tuck E., Mazzeo C., Smith J., Robertson E., Adams D., Mohun T., Weninger W.** *London, Oxford and Cambridge (UK), Vienna (Austria)*
Highly variable penetrance of abnormal phenotypes in embryonic lethal knock out mice
- 8** **Wörsdörfer P., Dalda N., Günther K., Edenhofer F., Henke E., Ergün S.** *Würzburg*
Generation of a human vascularized in vitro 3D tumor model using induced pluripotent stem cells
-

16:00 – 16:30

Pause/Break

16:30 - 18:00

Vorträge/Lectures 9-14

Cell and Stem Cell Biology / Developmental Biology II

- 9 Arnold P., Berner D., Schneppenheim J., Haass C., Lucius R., Becker-Pauly C.** *Kiel and Munich*
Meprin BETA regulates the phagocytic potential of macrophages via TREM2 proteolysis
- 10 Henke E., Nandigama R., Rossow L., Ergün S.** *Wuerzburg*
The tumor microenvironment: a physical barrier protecting tumor cells
- 11 Hiermaier M., Vielmuth F., Waschke J., Spindler V.** *Munich*
The actin-binding protein adducin regulates Dsg3-dependent adhesive functions and trafficking
- 12 Sun R., Panichkina O., Nedvetsky P., Sparrer D., Krahn M.P.** *Regensburg and Muenster*
Adaptor proteins of the crumbs complex in health and disease
- 13 Singer B.B., Reschke M., Schmitt V., Javaheri A., Moonens K., Mejias-Luque R., Backert S., Remaut H., Wennemuth G., Schmidt A., Gerhard M.** *Essen, München, Erlangen, Brüssel (Belgium), Umea (Sweden)*
CEACAMs as novel factors that modulate the risk of helicobacter pylori caused gastritis and gastric cancer
- 14 Blankenstein K.I., Borschewski A., Bachmann S., Mutig K.** *Berlin*
Local vs. systemic effects of calcineurin inhibition on salt reabsorption along the distal nephron of the kidney
-

18:00 – 18:15

kleine Pause/Break



AESCULAP
150
1867 | 2017

150 JAHRE AESCULAP PRODUKTE.
INNOVATION WEITER DENKEN.

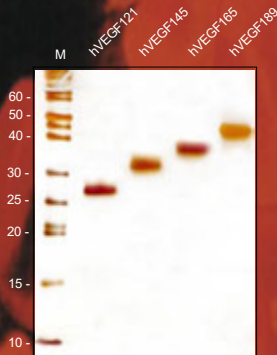
WER HÄTTE JE GEDACHT, DASS ...

... in diesen Instrumenten für so viele Menschen
so viel Zukunft liegen würde?

AESCULAP® – a B.Braun brand

Aesculap AG | Am Aesculap-Platz | 78532 Tuttlingen | Deutschland | www.aesculap.de

Angiogenesis and Lymphangiogenesis Research



VEGF-A • VEGF-B • VEGF-C
VEGF-D • VEGF-E • VEGF-F
PIGF-1 • PIGF-2
& soluble receptors!

α -sFlt1 • α -sFlt1-14 • α -sKDR • α -FLT4
• α -Prox-1 • α -LYVE-1 • α -Podoplanin
 α -VEGF-A • α -VEGF-C • α -PIGF

ELISA Kits:

- Flt-1
- KDR
- FLT-4
- TIE-2
- VEGF-A
- VEGF-C

Service Options

You are looking for something individual? Check, if you can find a solution in our contract work program:

- **Activity Assays**
→ send your protein of interest – we check the activity e.g. in endothelial cells, fibroblasts and several cell lines
- Production and purification of **recombinant proteins** in **E.coli** and **insect cells**
- Production and purification of **polyclonal / monoclonal antibodies**
- **From cDNA to Protein**
→ you need a recombinant protein not yet commercially available, please inquire
- **Reagent Formulation Service**
→ design your own reagent conditions for your individual application



Code generated by ZXing Project



ReliaTech GmbH

38300 Wolfenbüttel • Germany
Phone: +49 (0) 5331 8586 987
Fax: +49 (0) 5331 8586 989

www.reliatech.de • orders@reliatech.de



18:15 – 19:00

Vorträge/Lectures 15-17
Young Investigator I

- 15 Grundl A., Jäggle H., Tamm E., Braunger B. Regensburg**
Conditional deletion of VEGFR-2 mimicks essential characteristics of neovascularization glaucoma in mice
- 16 Schröder N., Schaffrath A., Welter J., Griep A., Heneka M., Pufe T., Brandenburg L.-O. Aachen and Bonn**
Modulation of formyl peptide receptors activity reduced $\alpha\beta 1$ -42-induced glial cell activation in Alzheimer's disease
- 17 Perniss A., Bufer B., Zufall F., Krasteva-Christ G., Kummer W. Giessen**
The taste of bacteria - a bacterial signal peptide increases mucociliary clearance in explanted mouse trachea by stimulating cholinergic chemosensory cells

Methods / Teaching

- 1 **Neckel P., Mattheus U., Hirt B., Mack A.** *Tübingen*
SDS-based tissue clearing in histology: technical approaches and new developments
- 2 **Watermann C., Valerius K.-P., Wagner S., Wittekindt C., Klussmann J.P., Karnati S., Baumgart-Vogt E.** *Giessen*
Step-by-step protocol to perfuse and dissect the mouse parotid gland and optimized procedures to isolate high quality RNA from murine and human parotid tissue
- 3 **Filgueira L., Eppler E.** *Fribourg and Basel (Switzerland)*
The ultimate near-peer teaching approach
- 4 **Wozniak S., Porwolik M., Domagala Z.** *Wroclaw (Poland)*
Is there a place for tricks in anatomy teaching?
- 5 **Gölkel C., Kielstein H., Wu A., Bernd P.** *Halle (Saale), New York (USA)*
Early internationalization of German medical students as part of a collaboration project between the Departments of Anatomy from the Columbia University NYC and the Martin Luther University Halle-Wittenberg
- 6 **König C., Ödemis V.** *Oldenburg*
Virtual microscopy versus optical microscopy: evaluation of search strategies of histological structures by undergraduate medical students

Gross Anatomy / Clinical Anatomy

- 7 **Wedel T., Böttner M., Kneist W., Quirke P., West N., Kupsch J., Witzigmann H., Stelzner S.** *Kiel, Mainz, Dresden, Leeds (UK)*
Topographic anatomy of the extrinsic autonomic nerve supply of the internal anal sphincter - a prerequisite for nerve-sparing rectal surgery
- 8 **Alkatout I., Mechler U., Fuhry E., Illert M., Maass N., Tillmann B.** *Kiel*
Michaelis – more than a rhombus
- 9 **Claassen H., Schmitt O., Schulze M., Wree A.** *Halle (Saale) and Rostock*
Frequency of branching pattern of the deep femoral artery and the circumflex femoral arteries with respect to the branches of the femoral nerve
- 10 **Neckel P., Gleiser C., Kramer A., Zeyher C., Kalbacher H., Feil G., Just L., Hirt B.** *Tuebingen*
Aminolipin: a novel alternative for formalin in human cadaver embalming

-
- 11 **Steidle-Kloc E., Sattler T., Kemnitz J., Ruhdorfer A., Wirth W., Galler S., Eckstein F. Salzburg (Austria)**
Longitudinal changes in specific muscle strength prior and concurrent to changes in knee function - data from the osteoarthritis initiative (oai)
 - 12 **Bolintineanu S.L., Pop E., Vaida M.A., Sisu A.M. Timisoara (Romania)**
Renal vessels variability highlighted via dissection and BIODUR S10 plastination technique
 - 13 **Winkelmann A., Teßmann B. Neuruppin and Berlin**
Provenance research in colonial collections – the case of a skull from Tasmania
 - 14 **Stan C.I., Stan D.C., Dumitrescu A.M., Indrei L., Dumitrescu G.F., Hînganu M.V., Sava A. Iași and Bucharest (Romania)**
Anatomical variants of the circle of Willis
 - 15 **Hînganu D., Sava A., Stan C.I., Hînganu M.V. Iași (Romania)**
Markers of locoregional extension in colorectal cancers
 - 16 **Klopries K., Paech D. Heidelberg**
Contrast-enhanced cadaver-specific post mortem computer tomography yields improved teaching of vascular and topographic anatomy in human gross anatomy
 - 17 **Eppler E., Mathews S., Serrano N., Link K., Burkhard M., Krafft H., Vich M., Ullrich O., Gascho D., Thali M., Müller-Gerbl M., Rühli F.J., Häusler M. Basel and Zürich (Switzerland)**
The gleno-humeral joint revisited in light of anatomical and reverse total shoulder arthroplasty: a cadaver dissection- and 3D-CT-based comparative study
 - 18 **Hamscha U.M., Meng S., Reissig L.F., Steinbacher J., Moussa M., Grisold W., Weninger W.J. Vienna (Austria)**
Sonographic diagnosis of carpal tunnel syndrome by calculating ratios of cross sectional areas of the median nerve
 - 19 **Richter C., Stumpp P., Barth N., Bechmann I., Hepp P. Leipzig**
Potentials and limitations of Thiel embalming and ethanol-glycerol fixation of the knee
 - 20 **Tinhofer I., Hirtler L., Reissig L., Zaussinger M., Meng S., Tzou C.-H.J., Kamolz L.-P., Weninger W. Vienna and Graz (Austria)**
Dynamic visualization of skin angiosomes
 - 21 **Keiler J., Schulze M., Seidel R., Springer A., Claassen H., Kielstein H., Wree A. Rostock, Schwerin, Halle/Saale**
Vessel and valve morphology of the human femoral vein – complex templates for artificial valve implants
 - 22 **Hînganu M.V., Sava A., Stan C.I., Hînganu D. Iasi (Romania)**
Anatomy of Canto

- 23 **Kemnitz J., Wirth W., Eckstein F., Culvenor A. Salzburg (Austria)**
Unravelling the role of muscle in knee osteoarthritis: quadriceps specific-strength, but not mass is associated with subsequent symptomatic knee osteoarthritis progression in women
- 24 **Pfeil S., Hieke H., Baumgart-Vogt E., Wimmer M. Giessen**
Safe reduction of formaldehyde vapors in breathing air during dissection courses
- 25 **Reissig L., Stockinger M., Maurer-Gesek B., Weninger W., Humenberger M. Vienna (Austria)**
Anatomical evaluation of the risk of common peroneal nerve injury in intramedullary tibial nailing

Experimental Morphology and Tissue Regeneration

- 26 **Knudsen L., Lopez-Rodriguez E., Berndt L., Steffen L., Ruppert C., Bates J., Hoymann H.-G., Ochs M., Smith B. Hannover, Giessen, Burlington and Denver (USA)**
Surfactant replacement therapy attenuates abnormal alveolar micromechanics in bleomycin induced lung injury
- 27 **Safronova E., Dydykin S., Panteleev A., Romanova O., Denisova A., Grigoryevsky E., Kolchenko S., Piskunova N. Moscow (Russia)**
Experimental model upper-airway epithelium regeneration
- 28 **Khayrullin R., Sulaymanova R., Yusupova L. Ulyanovsk and Ufa (Russia)**
Effect of prenatal exposure of various doses of synestrol on ovarian morphology in adult life of offspring
- 29 **Schipke J., Willführ A., Mühlfeld C. Hannover**
Experimentally induced intrauterine growth restriction in rabbits leads to differential remodelling of left versus right ventricular myocardial microstructure
- 30 **Smorodchenko A., Sharkovska Y., Dittmayer C., Cornejo-Müller A., Mutig K., Bachmann S. Berlin**
Impact of vasopressin on cell-autonomous expression of membrane transport proteins in rat distal nephron

Neuroanatomy/Neurobiology

- 31 **Cursano S., Schön M., Grabrucker S., Huber Lang M., Böckers T.M. Ulm**
Loss and recovery of excitatory synapses in the hippocampus after blunt chest trauma

-
- 32 **Cvetkova D., Stein G., Meyer C., Jansen R., Isik Z., Erdem H., Angelov D. *Cologne***
Effect of medial longitudinal myelotomy (MLM) plus whole body vibration (WBV) plus riluzole (RLZ)-treatment on motor functions recovery in spinal cord-injured (SCI) rats
- 33 **Frenz J., Woehler A., Rink S., Richter S., Arnold D., Isik Z., Angelov D. *Cologne***
Effect of combined therapy with whole body vibration (WBV) plus erythropoietin (EPO) on functional recovery in spinal cord-injured (SCI) rats
- 34 **Hawlitschka A., Holzmann C., Witt S., Spiewok J., Neumann A.-M., Schmitt O., Antipova V., Wree A. *Rostock, Graz (Austria)***
Intrastrially injected botulinum neurotoxin-a differently effects cholinergic and dopaminergic fibers in c57bl/6 mice
- 35 **Antipova V., Holzmann C., Schmitt O., Hawlitschka A., Wree A. *Rostock, Graz (Austria)***
Differential behavioral effects of botulinum neurotoxin-A injected ipsilaterally or contralaterally into the striatum in hemiparkinsonian rats
- 36 **Schmitt O., Lessmann F., Schwanke S., Eipert P., Meinhardt J., Beier J., Kadir K., Karnitzki A., Sellner L., Klüncker A.-C., Kuch L., Ruß F., Jenssen J.-C., Wree A. *Rostock***
Connectomics of the rat hypothalamus
- 37 **Mann T., Zilles K., Dikow H., Cremer M., Hawlitschka A., Wree A. *Rostock, Juelich***
Dopamine and serotonin receptor densities in the striatum of hemiparkinsonian rats following botulinum neurotoxin-A injection
- 38 **Arnold D., Wöhler A., Rink S., Frenz J., Isik Z., Angelov D. *Cologne***
Effect of combined therapy with whole body vibration (WBV) plus intracellular sigma peptide (ISP) on functional recovery in spinal cord-injured (SCI) rats
- 39 **Jungenitz T., Beining M., Radic T., Cuntz H., Deller T., Jedlicka P., Schwarzacher S.W. *Frankfurt***
Adult newborn rat hippocampal granule cells exhibit structural homo- and heterosynaptic plasticity
- 40 **Rink S., Wennmachers S., Richter S., Stein G., Meyer C., Lütke-meier K., Gargari M.D., Woehler A., Wechsler M., Jansen R., Isik Z., Angelov D. *Cologne***
Amount of axons, but not the area of preserved neural tissue bridges (PNTB) determines functional recovery in spinal cord-injured (SCI) rats

-
- 41 **Storsberg S., Gottswinter K., Stryjek R., Kröber A., Linke R., Roskoden T. Magdeburg, Warsaw (Poland)**
Does domestication affect predator odor induced innate fear behavior in rats
- 42 **Ipsalali H.O., Ciftci A.C., Kilic D., Sendemir G, Kaya I., Seyhan S., Kutay S., Ortug G. Istanbul (Turkey)**
Position of nervus abducens in sinus cavernosus: microsurgical preliminary study
- 43 **Joost S., Wree A., Haas S. J.-P. Rostock**
Organotypic nigrostriatal slice cultures of mice as ex vivo model of the nigrostriatal pathway
- 44 **Hausott B., Klimaschewski L. Innsbruck (Austria)**
The role of trafficking of fibroblast growth factor receptor 1 in axon elongation versus axon branching
- 45 **Scharr M., Neckel P., Seid K., Hirt B., Just L. Tuebingen**
Stimulation of Wnt signaling by R-Spondin enhances proliferation of neonate and adult ENS progenitors
- 46 **Zendedel A., Beyer C. Aachen**
Effects of estrogen and progesterone on local inflammasome regulation in a contusion model of spinal cord injury
- 47 **Gross I., Wree A., Bräuer A. Rostock and Oldenburg**
Cellular and sub-cellular localization of plasticity-related gene 5 in the brain
- 48 **John F., Theiss C., Matschke V. Bochum**
DNA-repair mechanisms in spinal cord of wobbler mice
- 49 **Zwilling M., Theiss C., Matschke V. Bochum**
Induction of degenerative processes in motor neurons of wobbler mice
- 50 **Schwarz-Herzke B., Ali A.A.H., von Gall C. Duesseldorf**
A defect molecular clockwork affects intrinsic properties of neural progenitor cell migration
- 51 **Halbe L., Maronde E., Rami A. Frankfurt**
Trehalose-mediated autophagy does not protect hippocampal HT22 neurons against ER-stress-induced cell death
- 52 **Rafiq A., Mirsaidov N., Wagenlehner F., Kummer W. Giessen**
Cholinergic purinergic cotransmission of the cholinergic parasympathetic detrusor innervation of mice demonstrated by using optogenetic tool
- 53 **Rohm M., Theiss C., Matschke V. Bochum**
Differential expression of the protein NDRG2 as well as the neurodegeneration-associated microRNA-375 in the spinal cord of the wobbler mouse

-
- 54 **Tönnies E., von Bohlen und Halbach V., Gläser A., Wree A., Bräuer A., von Bohlen und Halbach O.** *Greifswald and Rostock*
Morphological changes and differential expression of S1PR5 in NPC mice
- 55 **Tjaden J., Theiss C., Theis V.** *Bochum*
Impact of VEGF to synaptic plasticity in dissociated Purkinje cells
- 56 **Eickhoff A., Theiss C., Theis V.** *Bochum*
Effects of progesterone on synaptic plasticity in Purkinje cells
- 57 **Gehmeyer J., Theiss C., Theis V.** *Bochum*
Regulatory influence of mirnas on VEGF-triggered development of purkinje cells
- 58 **Wach F., Theiss C., Theis V.** *Bochum*
The influence of microRNA on progesterone stimulated Purkinje cells in the cerebellum
- 59 **Ali A.A.H., Schwarz-Herzke B., von Gall C.** *Duesseldorf*
Bmal11-deficiency accelerates migration of neural progenitor cells to the olfactory bulb
- 60 **Gläsel K., Theiss C., Theis V.** *Bochum*
The important role of microRNAs in the regulation of VEGFR-2 in the peripheral nervous system
- 61 **Gläser A., Tönnies E., von Bohlen und Halbach V., von Bohlen und Halbach O., Wree A., Bräuer A.** *Rostock, Greifswald and Oldenburg*
Cellular and subcellular localization of sphingosine-1-phosphate receptor 5
- 62 **Ecker C., Schmitt S.I., Grundl A., Jägle H., Braunger B.M.** *Regensburg*
VEGFR-2 mediated signaling protects against light-induced photoreceptor degeneration
- 63 **Maxeiner S., Luo F., Schmitz F., Südhof T.C.** *Homburg, Stanford (USA)*
How to make a synaptic ribbon: ribeye deletion abolishes ribbons in retinal synapses and impairs neurotransmitter release
- 64 **De Bruyckere E., Simon R., Nestel S., Heimrich B., Kätzel D., Schwegler H., Britsch S.** *Ulm, Freiburg and Magdeburg*
Regulation of the mossy fibre-CA3 connectivity by Bcl11b/Ctip2
- 65 **Wang Y., Costello J.L., Metz J., Schrader M., Schultz C., Islinger M.** *Heidelberg, Exeter (UK)*
Impact of the peroxisomal tethering protein ACBD5 on motility and positioning of peroxisomes in hippocampal neurons
- 66 **Landmann J., Richter F., Classen J., Richter A., Penninger J., Bechmann I.** *Leipzig, Wien (Austria)*
Phenotyping of calcium channel (CACN) subunit $\alpha 2\delta 3$ knockout mice

-
- 67 **Soi C., Simon R., Schwegler H., Britsch S.** *Ulm and Magdeburg*
The role of Bcl11b/Ctip2 in postnatal hippocampal mossy fiber development
- 68 **Möding M., Barrenschée M., Lange C., Ebsen M., Vogel I., Wedel T., Böttner M., Cossais F.** *Kiel*
Enteric glial cells express the GDNF receptors GFRA1, GFRA2 and NCAM *in vivo* and *in vitro* but display limited response to GDNF
- 69 **Preuße-Prange A., Barrenschée M., Lange C., Cossais F., Kurz B., Wedel T., Böttner M.** *Kiel*
Site-specific gene expression and localization of HSPA8 and HSPA1a in the human enteric nervous system (ENS) in diverticular disease
- 70 **Horn H., Schützelt B., Koch M.** *Leipzig*
Functional relevance of local endocannabinoid signalling in the hypothalamic arcuate nucleus

08:15 – 09:15

Juan Izspisua-Belmonte *Salk Institute, La Jolla (USA)*
Kölliker-Lecture II: Regenerative Medicine: Disease and Aging

09:15 – 09:45

Vorträge/Lectures 18 – 19
Neuroanatomy / Neurobiology I

18 Hernandez-Miranda L.R., Ruffault P.-L., Fortin G., Birchmeier C. *Berlin, Gif sur Yvette (France)*

Identification of an essential brain centre for vocalization

19 Vasic V., Bicker F., Schmidt M.HH. *Mainz*

Getting smarter without EGFL7

09:45 – 10:15

Pause/Break

10:15 – 12:00

Vorträge/Lectures 20 – 26
Neuroanatomy / Neurobiology II

20 Thalman C., Horta G., Tegeder I., Sigrudsson T., Radyuschkin K., Nitsch R., Vogt J. *Mainz and Frankfurt*

Synaptic bioactive phospholipid signaling: a new target for treating psychiatric disorders

21 Bas Orth C., Tan Y.-W., Lau D., Bading H. *Heidelberg*

Synaptic activity regulates neuronal energy metabolism - evidence for a neuronal warburg effect

22 Wagener R.J., Lopes A. V.S., Baumann N., Jabaudon D. *Geneva (Switzerland)*

When were you born where? A dynamic brain-wide atlas of VZ-born neurons

23 Körber C., Willaredt M., Nothwang H.G. *Heidelberg and Oldenburg*

Synaptic maintenance in the absence of synaptic activity in the auditory brainstem

-
- 24 Nyamoya S., Lanvermann J., Dornblut C., Morrison H., Kipp M.** *Aachen, Jena and Munich*
CPI-17 as a new oligodendrocyte marker and its influence on remyelination
- 25 Theis V., Pieczora L., Theiss C.** *Bochum*
VEGF – a stimulus for nerve regeneration
- 26 Ghelani T., Viotti J., Dresbach T., Wittenmayer N.** *Goettingen and Neuruppin*
Molecular mechanisms of synapse formation
-

Tagungsfotografie

12:00 – 13:15

Mittagspause/Lunch break

13:15 – 16:00

Vorträge/Lectures 27 – 35

Cell and Immune Biology / Neuroanatomy /
Methods / Teaching

- 27 Vielmuth F., Walter E., Rötzer V., Loschke F., Magin T.M., Spindler V., Waschke J.** *Munich and Leipzig*
Keratin-dependent p38 MAPK regulation is important for Dsg3 binding properties and required for loss of intercellular adhesion in pemphigus
- 28 Caspers S., Axer M., Grässel D., Amunts K., Zilles K.** *Duesseldorf and Juelich*
Fiber heterogeneity in the sagittal stratum – decoding its fine structure at ultra-high resolution
- 29 Hlushchuk R., Barré S., Schaad L., Haberthür D., Djonov V.** *Bern (Switzerland)*
Ex vivo microangiocl: new dimensions in vascular imaging
- 30 Muschol M., Wenders C., Babcock D., Wennemuth G.** *Essen, Seattle (USA)*
4D-high speed digital-holographic-microscopy (DHM) reveals new insights in sperm flagellar waveform

-
- 31 **Böing M., Napirei M., Brand-Saberi B.** *Bochum*
Characterization of the transcription factor Math6 as an essential regulator of placental development
- 32 **Mietens A., Kügler R., Seidensticker M., Tasch S., Wagenlehner F., Tomczyk C., Beyer D., Risbridger G., Ellem S., Exintaris B., Middendorff R.** *Giessen, Melbourne (Australia)*
Visualization of contractile function in the prostate reveals different effects of PDE5 inhibitors used for the treatment of benign prostatic hyperplasia
- 33 **Krueger M., Mages B., Härtig W., Bechmann I., Michalski D.** *Leipzig*
Blood-brain barrier breakdown following experimental cerebral ischemia is associated with endothelial degeneration along the different segments of the vascular tree
- 34 **Stockmann R.** *IFA, Berlin*
Ergebnisse aus dem Formaldehyd-Projekt der Unfallversicherungsträger
- 35 **Hirt B.** *Tübingen*
Formaldehyd und wie geht es weiter mit der Fixierung anatomischer Präparate?
-

16:00 – 16:15

kleine Pause/Break

16:15 – 17:45

Mitgliederversammlung/General assembly

Neuroanatomy/Neurobiology

- 71 **Schulz J., Franke K., Frick M., Schumacher S.** *Ulm*
Different roles of the small GTPases Rac1, Cdc42, and RhoG in CALEB/NGC-induced dendritic tree complexity
- 72 **Potru P.S., Zöller T., Spittau B.** *Freiburg*
R-smad-dependent TGF β signalling mediates TGF β -induced effects on microglia
- 73 **Pradas L.G., Sigg F., Wagner A., Kalbacher H., Mack A.F., Hirt B., Gleiser C.** *Tuebingen*
Functional analysis of novel alternatively spliced transcripts of rat and human aquaporin-4 in the sensory domain of the cochlear duct
- 74 **von der Ruhr JW., Wagner A., Pradas L.G., Hirt B., Just L., Gleiser C.** *Tuebingen*
Investigating the barrier function of cultivated cells isolated from dissociated endolymphatic sac tissue of the inner ear
- 75 **Wagner A., Pradas L.G., Jäger K., Hirt B., Gleiser C.** *Tuebingen*
Analysis of the tissue quality of post-mortem human cochlea
- 76 **Busch M., Große-Kreul J., Wirtz J.J., Stephan H., Beier M., Royer-Pokora B., Metz K., Dünker N.** *Essen and Duesseldorf*
TFF1 overexpression reduces tumorigenic potential of human retinoblastoma cells involving p53-caspasis pathway and MIR-18a regulation
- 77 **Bräuer A.U.** *Oldenburg*
News on function of PRG5
- 78 **Sava A., Dumitrescu G.F., Stan C.I., Hînganu D., Indrei L., Costea C.F., Lucian Eva L.** *Iași and Bucharest (Romania)*
A retrospective study realised on 218 cases of spinal meningiomas
- 79 **Savaskan N., Chen D., Fan Z., Rauh M.** *Erlangen, Zuerich (Switzerland)*
ATF4 promotes angiogenesis and confers ferroptosis in a xCT-dependent manner
- 80 **Röderer P., Klatt L., Theis V., Winklhofer K.F., Theiss C., Matschke V.** *Bochum*
Increased ROS level in spinal cord of wobblers mice due to NMNAT2-downregulation
- 81 **Scheld M., Clarner T., Fragoulis A., Kipp M., Beyer C.** *Aachen and Munich*
Oligodendrocyte-derived IL-6 as a modulator of microglia activation

Neuroimmunology

- 82 **Immig K., Schiefenhövel F., Prodinger C., Bechmann I.** *Leipzig*
Indications for cellular migration from the central nervous system to its draining lymph nodes in CD11c-GFP+ bone-marrow chimeras following EAE
- 83 **Demmer I., Rickert U., Lucius R.** *Kiel*
Niacin treatment significantly reduces the expression of proinflammatory cytokines in primary microglia
- 84 **von Ehr A., Neidert N., Spittau B.** *Freiburg*
Analysis of TGF-beta1-regulated expression of Mrc1 in primary mouse microglia
- 85 **Schropp V., Rovituso D., Kürten S.** *Erlangen and Wuerzburg*
Mechanisms and molecules involved in ectopic lymphoid tissue formation in the CNS in a mouse model of multiple sclerosis
- 86 **Königer T., Ergün S., Kürten S.** *Wuerzburg and Erlangen*
The CNS vasculature: a fountain of youth for microglia?
- 87 **Soultanova A., Fleck K., Cen C., Althaus M., Hain T., Besselowa J., Herold S., Wessler I., Kummer W.** *Giessen, Marburg and Mainz*
Chemosensory cholinergic signaling network in the thymic medullary epithelium
- 88 **Brück M., Rickert U., Cossais F., Schröder K., Lange C., Behrend P., Lucius R.** *Kiel*
Homeostasis in the brain: differential activation of microglia
- 89 **Schöllwer I., Beyer C., Slowik A.** *Aachen*
Depletion of NLRP3 fails to mitigate inflammasome-mediated inflammation in BV-2 cells after *in vitro* hypoxia
- 90 **Buder T., Lütjen-Drecoll E.** *Erlangen*
Effect of prostaglandine application on ACAID in the mouse eye
- 91 **Clarner T., Scheld M., Nyamoya S., Beissel M., Ranjbar Taklimie F., Zendedel A., Kipp M., Beyer C.** *Aachen and Munich*
Modulation of astrocyte reactivity by lipocalin-2 in MS animal models

Cell and Stem Cell Biology

- 92 **Pfeiffer V., Vix P., Singer B.B., Tilki D., Ergün S.** *Wuerzburg, Essen and Hamburg*
The role of CEACAM1 in lymph node metastasis of prostate cancer
- 93 **Kirschneck C., Proff P., Batschkus S., Spanier G., Schröder A.** *Regensburg*
Valid gene expression normalization and analysis by RT-qPCR in in-vitro studies on human periodontal ligament fibroblasts (hpdL) with a focus on orthodontic tooth movement and periodontitis
- 94 **Buhrmann C., Popper B., Aggarwal B., Shakibaei M.** *Munich, San Diego (USA)*
TNF- β - induced inflammation in articular chondrocytes
- 95 **Filgueira L., Link K., Natzeder S., Bashar A., Martinelli L., Rubin A., Eppler E.** *Basel (Switzerland), Fribourg (Switzerland), Zurich (Switzerland), Perth (Australia)*
Expression of stem cell markers in beta cell of the human
- 96 **Garreis F., Adelung S., Abrar D.B., Hampel U., Schicht M., Paulsen F.** *Erlangen and Mainz*
Human meibomian gland epithelial cell line (HMGEc) as a model to study meibomian gland dysfunction
- 97 **Sunohara M., Morikawa S., Noguchi K., Sato I.** *Tokyo (Japan)*
Contribution of the signaling molecules during vascular development in tooth germ
- 98 **Afonso S., Wiesner J., Heini E., Doellerer H., Tegtmeyer I., Danyukova T., Storch S., Reichold M.** *Regensburg and Hamburg*
The renal phenotype of cln7 knockout mice
- 99 **Razaeian S., Preuß-Prange A., Böttner M., Kurz B.** *Kiel*
The chondroprotective effect of GDF-15 in a pro-inflammatory *in vitro* model
- 100 **Jabari S., Schrödl F., Kofler B., Brehmer A.** *Erlangen, Salzburg (Austria)*
Alarin in human gastrointestinal epithelium
- 101 **Keshavarz M., Hartmann P., Schütz B., Kummer W.** *Giessen and Marburg*
Bitter taste receptor agonists mediate contraction and relaxation in murine gallbladder smooth muscle
- 102 **Bartelt-Kirbach B., Barteczko L., Golenhofen N.** *Ulm*
HspB5/alphaB-crystallin protein amount is negatively regulated by microRNA 129-2-3p

-
- 103 **Konarek L.** *Giessen*
Effects of the extracorporeal shock wave on cell-vitality and expression of cell-cell contact proteins of equine mesenchymal stem cells
- 104 **Heilen L., Arnhold S.** *Giessen*
Generation of neural precursor cells from canine adipose tissue derived mesenchymal stem cells (ADMSCS)
- 105 **Schmitt S., Grosche A., Neueder A., Braunger B.** *Regensburg, London (UK)*
Characterization of endothelin receptor type b mediated signalling in Müller cells and photoreceptors
- 106 **Klymiuk M.C., Wolf-Hofmann K., Arnhold S.** *Giessen*
Influence of carprofen, firocoxib and meloxicam on mesenchymal stem cells for the treatment of canine osteoarthritis
- 107 **Eggerstorfer S., Herrnberger L., Tamm E.** *Regensburg*
The role of fibronectin in the renal interstitium
- 108 **Roch D., Barahmand Pour N., Lichte P., Bergmann C., Bienert M., Heigl T., Pape H.-C., Neuß-Stein S., Fischer H., Pufe T., Tohidnezhad M.** *Aachen*
Effect of modified beta tricalcium scaffold (β TCP) on tissue and bone regeneration by critical size fracture (*in vivo* study)
- 109 **Kufahl M., Roggendorf H.C., Graf I., Angelov D., Bloch W., Braumann B., Korkmaz Y.** *Cologne*
The caries-degree dependent phosphorylation of ERK1/2 in inflamed human odontoblasts
- 110 **Erdek Ö., Roggendorf H.C., Bloch W., Angelov D., Neugebauer J., Korkmaz Y.** *Cologne*
The irreversible inflammation of the human dental pulp decreases phosphorylation of eNOS at Ser1177 in pulp blood vessels
- 111 **Rojo Arias J.E., Economopoulou M., Morawietz H., Funk R., Jászai J.** *Dresden*
Pharmacological modulation of the morpho-functional recovery of the ischemic murine retina
- 112 **Chlopek P., Austermann L., Kuithan L., Fröhling W., Kaya S., Akpur A., Marinho de Barros T., Emin K., Fuhrmann D.R., Bloch W., Roggendorf H.C., Neugebauer J., Korkmaz Y.** *Cologne*
The degeneration-degree dependent increase in elongation of the human odontoblast nucleus: an objective criterion for classification of the odontoblasts degeneration
- 113 **Schlögl E., Radeva M., Waschke J., Spindler V.** *Munich*
Contribution of keratin retraction and DSG3 depletion to autoantibody-induced cell dissociation in pemphigus vulgaris

-
- 114 **Hieke H., Pfeil S., Baumgart-Vogt E., Wimmer M.** *Giessen*
Reduction of the formaldehyde concentration in the breathing air during the anatomical dissection course by a newly developed jet nozzle system
- 115 **Goltz K., Schneider S.T., Hoffmann B., Schnakenberg U., Jahr H., Pufe T., Tohidnezhad M.** *Aachen and Jülich*
Novel monolayer cultivation model of tenocyte in cell stretcher x6
- 116 **Schaedlich K., Gebauer S., Hunger L., Beier L.-S., Wabitsch M., Fischer B., Ernst J.** *Halle (Saale)*
DEHR effects on human adipogenesis in SGBS-derived adipocytes
- 117 **Kokozidou M., Langer S., Koeppel T.A., Schleimer K.** *Nuremberg, Witten, Hamburg and Aachen*
Training a sophisticated microsurgical technique: interposition of external jugular vein graft in the common carotid artery in rats
- 118 **Rueckschloss U., Ghavampour S., Bömmel H., Kleefeldt F., Volland J., Paus A., Hübner S., Horst A., Wagner N., Ergün S.** *Wuerzburg*
CEACAM1 regulates endothelial adherens junctions and barrier function
- 119 **Schulze-Tanzil G., Gögele C., Ondruschka B., Hammer N., Schwarz S.** *Nuremberg and Leipzig, Salzburg (Austria), Otago (New Zealand)*
Characterization of iliotibial band-derived fibroblasts harvested by explant culturing
- 120 **Lange C., Barrenschée M., Cossais F., Hohmeier I., Ebsen M., Vogel I., Egberts J.-H., Becker T., Böttner M., Wedel T.** *Kiel*
Muscular changes in asymptomatic diverticulosis preceding the onset of diverticular disease
- 121 **Beckmann A., Wolf S., Grißmer A., Meier C.** *Homburg/Saar*
Oxygen-glucose deprivation alters astrocytic homeostasis and gap junction morphology
- 122 **Divvela SSK., Balachandran Y., Balakrishnan-Renuka A., Boeing M., Napirei M., Zaehres H., Brand-Saberi B.** *Bochum*
Atoh8 in reprogramming and maintenance of pluripotency
- 123 **Draeger A., Babychuk E.B.** *Bern (Switzerland)*
Tailored liposomes against bacterial toxins
- 124 **Sachs L., Zeiler J., Hoffmann J., Spindler V.** *Munich*
Loss of dsg2 results in partial emt and an upregulation of camp levels
- 125 **Wiesehöfer M., Szczyrba J., Wennemuth G.** *Essen*
Changes in gene expression during neuroendocrine differentiation of PCA cell line LNCAP reveal new microrna target genes



SOMSO
MODELLE
SEIT 1876

28 Tage alter menschlicher Embryo aus der Ziegler-Modellserie Nr. 3

Das Modell zeigt die wesentlichen Strukturen eines etwa 28 Tage alten Embryos. Die linke Körperhälfte ist teilweise im Medianschnitt dargestellt, so dass die verschiedenen Organanlagen in ihren für dieses Embryonalstadium charakteristischen, topographischen Beziehungen zueinander zu erkennen sind.

Eindrucksvoll ist besonders: die frühe Herzanlage, die Herzschleife in der Perikardhöhle, die primäre Gliederung des embryonalen Darmrohres mit den Schlundtaschen im Kopfdarmbereich, die Leberanlage (farblich markiert), die Nabelschleife, der Enddarm mit der Allantois und der Anfangsteil des Nabelstranges.

Deutlich erkennbar ist auch die frühe Gliederung des Neuralrohres mit der Augenanlage. Dadurch, dass die

Haut an der einen Körperhälfte entfernt worden ist, kann man leicht Form und Lokalisation der Organanlagen auf die Strukturen der anderen Seite beziehen und sich so ein lebendiges Bild von der Gestalt des frühen Embryonalkörpers machen. So sind z.B. auf der rechten

Seite die den Schlundtaschen entsprechenden Pharyngealfurchen (»Kiemenfurchen«), die Herzwulst und die Wirbelsegmente (Somiten) deutlich zu erkennen.

Ein für den Unterricht in der Humanembryologie unentbehrliches Modell von hohem didaktischen Wert!

MARCUS SOMMER
SOMSO MODELLE GMBH

Friedrich-Rückert-Straße 54, 96450 Coburg
Tel. (0 95 61) 8 57 40 • Fax (0 95 61) 85 74 11
somso@somso.de • www.somso.de



Die Abbildung zeigt das Wachs-Modell eines menschlichen Embryos (6,8 mm Länge) nach Prof. Dr. H. Pieper aus dem Atelier von Friedrich Ziegler in Freiburg.



MS 48/3-I · Menschlicher Embryo

A detailed black and white photograph of a Nikon compound microscope. The microscope is shown from a three-quarter front view, highlighting its binocular eyepieces, objective lenses, stage, and base. The lighting is dramatic, with strong highlights on the metallic and plastic surfaces and deep shadows elsewhere. The background is dark and out of focus.

Mikroskopie für die Anatomie

Nikon GmbH
Microscope Solutions
Tiefenbroicher Weg 25
40472 Düsseldorf
mikroskope.de@nikon.com

- 126 **Krusche C.A., Bruns F., Gercek M., Bezrucav I.-M., Lubos N., Kant S., Leube R.E.** *Aachen*
Pathomechanisms in Desmoglein 2-mutant hearts

Developmental Biology

- 127 **Elashry M.I., Heimann M., Wenisch S., Arnhold S.** *Giessen*
Hypoxia delays the myogenic differentiation and enhances the adipogenesis and osteogenesis of the muscle-derived stem cells
- 128 **Draga M., Sagar, Pröls F., Scaal M.** *Cologne and Freiburg*
Characterization of dermomyotomal filopodia-like protrusions (Filips) in chicken embryos
- 129 **Tsikolia N., Henningfeld K., Kremnyov S., Viebahn C.** *Goettingen, Moscow (Russia)*
Divergent sonic hedgehog expression patterns in vertebrate prospective floor plate and notochord
- 130 **Wille M., Schümann A., Kreutzer M., Glocker M.O., Mutzbauer G., Schmitt O., Wree A.** *Rostock and Wuerzburg*
Differential proteomics of the cerebral cortex of juvenile, adult and aged rats: an ontogenetic study
- 131 **Geyer S., Reissig L., Rose J., Wilson R., Prin F., Szumska D., Ramirez-Solis R., Tudor C., White J., Mohun T., Weninger W.** *Vienna (Austria), London (UK), Oxford (UK), Cambridge (UK)*
Staging E14.5 mouse embryos
- 132 **Kotb A.M., Blumenthal A., Siegerist F., Kindt F., Endlich K., Endlich N.** *Greifswald*
Hemopexin induces proteinuria in zebrafish larvae
- 133 **Maurer-Gesek B., Geyer S.H., Reissig L.F., Szumska D., Rose J., Ramirez-Solis R., Galli A., Tudor C., Icoresi Mazzeo C., Tuck E., White J., Wilson R., McGuire C., Prin F., Mohun T.J., Weninger W.** *Vienna (Austria), London (UK), Oxford (UK), Cambridge (UK)*
Eye abnormalities in 70 genetically engineered mouse lines of the DMDD programme
- 134 **Prieth B., Pechriggl E., Urbas R., Blumer M., Brenner E.** *Innsbruck and Salzburg (Austria)*
Development of the so-called "mandibular symphysis" in humans
- 135 **Hochstuhl J., Islinger M., Elger M.** *Heidelberg*
Morphological and morphometrical analyses of pronephric and definitive kidney in *Danio rerio* regarding nephrogenesis

Immune Biology

- 136 **Kirschneck C., Proff P. Regensburg**
Leflunomide-induced suppression of inflammation and osteoclastogenesis reduced orthodontic tooth movement and associated dental root resorptions in a rat model
- 137 **Perniss A., Schmidt N., Gurtner C., Dietert K., Weigel M., Schwengers O., Ewers C., Gärtner U., Pfeil U., Gruber A.D., Hain T., Kummer W. Giessen and Berlin**
Impaired tracheal cilia-driven transport, airway inflammation and BALF formation in mice infected with bordetella pseudohinzii
- 138 **Sisu A.M., Raica M., Bolintineanu S.L., Ceausu A.R., Tarlui V., Cimpean A.M. Timisoara (Romania)**
HER2 and epidermal growth factor receptor expression - practical tool to characterize invasive urothelial carcinoma of urinary bladder
- 139 **Kueffer G.K., Twigger A.J., Geddes D.T., Walch M., Filgueira L. Fribourg (Switzerland), Perth (Australia)**
Antimicrobial immune proteins in human milk
- 140 **Schmitt V., Schäfer S., Scherag A., Wennemuth G., Adamzik M., Singer B.B. Essen, Munich, Jena, Bochum**
Level of ceacams in plasma of sepsis patients and its clinical relevance
- 141 **Panther P., Kühne M., Kaufmann J., Heinze H.-J., Kupsch A., Zaehle T., Voges J., Nullmeier S. Magdeburg, Berlin, Ulm**
Electric stimulation of the medial forebrain bundle is able to modulate prepulse inhibition. a pilot study in Alzheimer's disease
- 142 **Fragoulis A., Fuchs J., Clarner T., Pufe T., Wruck C.J. Aachen**
Pro-inflammatory stimuli induce an NRF2-mediated resolution of inflammation in macrophages
- 143 **Braune J., Weyer U., Hobusch C., Mauer J., Brüning J., Bechmann I., Gericke M. Leipzig and Cologne, New York (USA)**
IL-6 promotes alternative activation and local proliferation of adipose tissue macrophages in obesity
- 144 **Braune J., Weyer U., Matz-Soja M., Hobusch C., Kern M., Kunath A., Nora Klötting N., Kralisch S., Blüher M., Gebhardt R., Zavros Y., Bechmann I., Gericke M. Leipzig**
Hedgehog signaling in myeloid cells impacts on body weight, adipose tissue inflammation and glucose metabolism

Reproductive Biology

- 145 **Hilbold E., Bergmann M., Kliesch S., Weidner W., Langeheine M., Rode K., Brehm R.** *Hannover, Giessen and Muenster*
Immunolocalization of DMRTB1 in human testis showing normal and impaired spermatogenesis
- 146 **Wenders C., Muschol M., Wennemuth G.** *Essen*
Digital holographic microscopy as a potential method for fertility diagnostic
- 147 **Koczy M.T., Buck V.U., Streuter F., Rösing B., Neulen J. Classen-Linke I.** *Aachen*
Effect of ovarian steroid hormones and human chorionic gonadotropin on human endometrial epithelial cells in a 3D confrontation system
- 148 **Elfgen V., Hau T., Galuska C., Mietens A., Galuska S., Middendorff R.** *Giessen and Dummerstorf*
Segments of the epididymis show differences in the sialylation status of spermatozoa and in the contractile pattern of the epididymal duct
- 149 **Seidensticker M., Kügler R., Mietens A., Tasch S., Wagenlehner F., Ellem S., Exintaris B., Risbridger G., Middendorff R.** *Giessen, Melbourne (Australia)*
Visualization of PDE5 inhibitor effects in prostate tissue: no evidence for disturbances of ejaculation
- 150 **Buck V.U., Koczy M.T., Naumann L., Streuter F., Zajber C., Rösing B., Biazar F., Berger B., Neulen J., Classen-Linke I.** *Aachen*
Assessment of human endometrial receptivity for assisted reproductive technology - combining functional in vitro studies with biomarkers on human biopsies
- 151 **Beyer D., Mietens A., Müller D., Ježek D., Schuler G., Middendorff R.** *Giessen, Zagreb (Croatia)*
Spontaneous contractions of the immature epididymal duct: they drive directional movement of exfoliated epithelial cells
- 152 **Bähr I., Spielmann J., Kielstein H.** *Halle/Saale*
NK cell dysfunction is associated with an increased colon cancer incidence in obesity

08:00 – 10:00Vorträge/Lectures 36 - 43

- 36 Jedlicka P., Cuntz H., Bird A., Beining M., Hoffmann F., Platschek S., Deller T. *Frankfurt***
Neuronal responses to distributed synaptic inputs are independent of dendritic length and branching structure
- 37 Prönneke A., Möck M., Witte M., Staiger J. *Goettingen***
Intrinsic properties of VIP neurons: insights into morphology, electrophysiology, and the influence of neuromodulation
- 38 Dillinger A.E., Mayer M., Schneider M., Weber G.R., Goepfner C., Tamm E.R., Shamonin M, Monkman G.J., Fuchshofer R. *Regensburg and Berlin***
Reactive changes in murine optic nerve astrocytes are mediated by growth factors and increasing substratum stiffness
- 39 Drakew A., Maier U., Frotscher M. *Hamburg***
Single hippocampal mossy fiber synapses control hilar mossy cell firing
- 40 Hochstrasser T., Reinbach C.R., Pröbstl N., Schmitz C., Kipp M. *Munich***
CD44 as a trigger for inflammatory lesion formation
- 41 Terzi F., Knabbe J., Kuner T., Cambridge S. *Heidelberg***
A genetically encoded system with high spatiotemporal resolution for modification of neuronal network activity patterns in vivo
- 42 Lenz M., Vlachos A. *Freiburg***
Studying neuronal mechanisms of hepatic encephalopathy (HE) in CA1 pyramidal neurons of entorhino-hippocampal slice cultures
- 43 Brandt N., Löffler T., Rune G.M. *Oldenburg and Hamburg***
Sex-specificity of dendritic spine type density in the hippocampus
-

10:00 – 10:30

Pause/Break

10:30 bis 12:30

Vorträge 44 – 51

Young Investigator II and Nachwuchspreis

- 44 Siegerist F., Zhou W., Blumenthal A., Endlich K., Endlich N.** *Greifswald, Michigan (USA)*
Four dimensional *in vivo* imaging of glomerular dynamics in a zebrafish podocyte injury model
- 45 Ackermann M., Walch A., Jonigk D., Mentzer S.** *Mainz, Munich, Hannover, Boston (USA)*
Influence of angiogenesis in the pathogenesis of fibrotic pulmonary disease
- 46 Schampel A., Koeniger T., Volovitch O., Ergün S., Kürten S.** *Wuerzburg and Erlangen*
Beneficial therapeutic effects of the L-type calcium channel antagonist nimodipine in experimental autoimmune encephalomyelitis – an animal model for multiple sclerosis
- 47 Anstötz M., Lee SK, Neblett TI, Maccaferri G., Frotscher M., Rune GM.** *Hamburg, Chicago (USA)*
Functional relevance of Cajal-Retzius cells in adult hippocampus
- 48 Wanuske M.-T., Walter E., Vielmuth F., Waschke J., Spindler V.** *Munich*
Plakoglobin regulates cell-cell adhesion and desmoglein 3 binding properties
- 49 Wieghofer P., Goldmann T., Costa Jordao M.J., Prutek F., Hagemeyer N., Staszewski O., Krüger M., Priller J., Bechmann I., Jung S., Prinz M.** *Leipzig, Freiburg, Berlin, Rehovot (Israel)*
Origin, fate and dynamics of macrophages at central nervous system interfaces
- 50 Garrido D., Catanese A., Böckers T.** *Ulm*
Neurons re-arrange synapses under nutrient starvation
- 51 Nachwuchspreis-Vortrag/Nachwuchspreis-Lecture**
-

12:45 Preisverleihung Postersitzung / Poster awards

13:30 Ende der 112. Jahrestagung / End of the Meeting

<u>Erstautor/First author</u>	<u>Nr. des Vortrages (V) / Posters (P)</u>
Ackermann M.	V45
Afonso S.	P98
Ali A.A.H.	P59
Alkatout I.	P8
Anstötz M.	V47
Antipova V.	P35
Arnold D.	P38
Arnold P.	V9
Bähr I.	P152
Bartelt-Kirbach B.	P102
Bas Orth C.	V21
Beckmann A.	P121
Beyer D.	P151
Blankenstein K.I.	V14
Böing M.	V31
Bolintineanu S.L.	P12
Brandt N.	V43
Bräuer A.U.	P77
Braune J.	P143, P144
Braunger B.M.	V4
Brück M.	P88
Buck V.U.	P150
Buder T.	P90
Buhrmann C.	P94
Busch M.	P76
Caspers S.	V28
Chlopek P.	P112
Claassen H.	P9
Clarner T.	P91
Cursano S.	P31
Cvetkova D.	P32
De Bruyckere E.	P64
Deckmann K.	V3



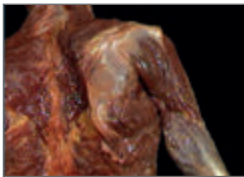
Leading digital anatomy resources on Ovid®

Visible Body



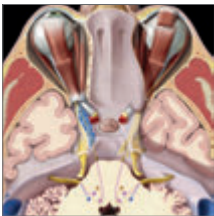
- 3D anatomy visualization resources used to interact and explore the human body
- Covering anatomy, physiology, muscles, the skeleton and the circulatory system
- Some programs also available in German and other languages
- Each program offers a mobile app

Acland's Video Atlas of Human Anatomy



- Comprehensive 3D video atlas of fresh anatomic specimens in their natural color
- 360 view of specimens accompanied by clear narration and labeled structures
- Available online and optimized for mobile devices

Elsevier Reference Centers



- Seamless, one-click access to three image-rich databases in anatomy, radiology and pathology
- Search or browse topics by diagnosis, organ, organ system, medical specialty, or keyword
- Up to 25% new content added in 2017!

Win an iPad! Come and see us at our stand!



Andreas Junghans®
GmbH & Co. KG

Labormöbel aus Edelstahl

- ✓ zuverlässig
- ✓ langlebig
- ✓ individuell

www.ajunghans.de

Andreas Junghans® GmbH & Co. KG
Chemnitzer Straße 63 | 09669 Frankenberg/Sa.
info@ajunghans.de | +49 (0) 37206 / 862 - 0

Demmer I.	P83
Dillinger A.	V38
Divvela SSK.	P122
Draeger A.	P123
Draga M.	P128
Drakew A.	V39
Ecker C.	P62
Eckert P.	V6
Eggerstorfer S.	P107
Eickhoff A.	P56
Elashry M.I.	P127
Elfggen V.	P148
Eppler E.	P17
Erdek Ö.	P110
Filgueira L.	P3, P95
Fragoulis A.	P142
Frenz J.	P33
Garreis F.	P96
Garrido D.	V50
Gehmeyr J.	P57
Geyer S.	P131
Ghelani T.	V26
Gläsel K.	P60
Gläser A.	P61
Gölkel C.	P5
Goltz K.	P115
Gross I.	P47
Grundl A.	V15
Halbe L.	P51
Hamscha U.M.	P18
Hausott B.	P44
Hawlitschka A.	P34
Heilen L.	P104
Henke E.	V10
Hernandez-Miranda L.R.	V18
Hieke H.	P114
Hiermaier M.	V11

Hilbold E.	P145
Hinganu D.	P15
Hinganu M.V.	P22
Hirt B.	V35
Hlushchuk R.	V29
Hochstrasser T.	V40
Hochstuhl J.	P135
Horn H.	P70
Immig K.	P82
Ipsalali H.O.	P42
Islinger M.	V1
Jabari S.	P100
Jedlicka P.	V36
John F.	P48
Joost S.	P43
Jungenitz T.	P39
Keiler J.	P21
Kemnitz J.	P23
Keshavarz M.	P101
Khayrullin R.	P28
Kirschneck C.	P93, P136
Klopries K.	P16
Klymiuk M.C.	P106
Knudsen L.	P26
Koczy M.T.	P147
Kokozidou M.	P117
Konarek L.	P103
König C.	P6
Königer T.	P86
Körber C.	V23
Kotb A.M.	P132
Krueger M.	V33
Krusche C.A.	P126
Kueffer G.K.	P139
Kufahl M.	P109
Landmann J.	P66
Lange C.	P120

Lenz M.	V42
Mann T.	P37
Maurer-Gesek B.	P133
Maxeiner S.	P63
Mietens A.	V32
Möding M.	P68
Muschol M.	V30
Neckel P.	P1, P10
Nyamoya S.	V24
Panther P.	P141
Perniss A.	V17, P137
Pfeiffer V.	P92
Pfeil S.	P24
Potru P.S.	P72
Pradas L.G.	P73
Preuße-Prange A.	P69
Prieth B.	P134
Prönneke A.	V37
Rafiq A.	P52
Razaeian S.	P99
Reissig L.	P25
Richter C.	P19
Rink S.	P40
Roch D.	P108
Röderer P.	P80
Rohm M.	P53
Rojo Arias J.E.	P111
Rueckschloss U.	P118
Sachs L.	P124
Safronova E.	P27
Sava A.	P78
Savaskan N.	P79
Schaedlich K.	P116
Schampel A.	V46
Scharr M.	P45
Scheld M.	P81
Schinner C.	V5

Schipke J.	P29
Schlögl E.	P113
Schmitt O.	P36
Schmitt S.	P105
Schmitt V.	P140
Schöllwer I.	P89
Schröder N.	V16
Schropp V.	P85
Schulz J.	P71
Schulze-Tanzil G.	P119
Schwarz-Herzke B.	P50
Seidensticker M.	P149
Siegerist F.	V2, V44
Singer B.B.	V13
Sisu A.M.	P138
Smorodchenko A.	P30
Soi C.	P67
Soultanova A.	P87
Stan C.I.	P14
Steidle-Kloc E.	P11
Stockmann R.	V34
Storsberg S.	P41
Sun R.	V12
Sunohara M.	P97
Terzi F.	V41
Thalman C.	V20
Theis V.	V25
Tinhofer I.	P20
Tjaden J.	P55
Tönnies E.	P54
Tsikolia N.	P129
Vasic V.	V19
Vielmuth F.	V27
von der Ruhr JW.	P74
von Ehr A.	P84
Wach F.	P58
Wagener R.J.	V22

Wagner A.	P75
Wang Y.	P65
Wanuske M.-T.	V48
Watermann C.	P2
Wedel T.	P7
Wenders C.	P146
Wieghofer P.	V49
Wiesehöfer M.	P125
Wille M.	P130
Wilson R.	V7
Winkelmann A.	P13
Wörsdörfer P.	V8
Wozniak S.	P4
Zendedel A.	P46
Zwilling M.	P49

WIP Institutsplanung

Fachplanung von Instituten für Anatomie

Bei unseren Referenzen ist die Unterschreitung der Formaldehyd MAK-Werte unterhalb des WHO-Standards von $0,1 \text{ mg/m}^3$ bei der Installation unseres in sich kompatiblen Anatomie-Technik-Systems, welches auch die Lüftungstechnik beinhaltet, amtlich bestätigt worden. Das bedeutet für Sie die absolute Planungssicherheit.



Präpariertische mit Absaugung



Kurs-OP-Tische mit Absaugung

Abb. Das Ergebnis der WIP-Fachplanung nachdem der Präpariersaal des Anatomischen Instituts der Ruhr Universität Bochum wegen zu hoher Formaldehyd-Emissionswerte im Ende 2016 geschlossen wurde. Eine Kopie der Kontrollmessung vom 15. Mai 2017 des Instituts für Gefahrstoff Forschung (IGF) der Berufsgenossenschaft können Sie sich auf unserer Website unter „Testberichte“ herunterladen.



E-Mail: info@institutsplanung.com
Internet: www.institutsplanung.com

SPONSOREN

Die diesjährigen Posterpreise werden gespendet von:

Ein Posterpreis (EUR 300,00) von Firma Leica

Zwei Posterpreise (à EUR 300,00) vom Institut für Anatomie und Zellbiologie,
Universität Würzburg

F · S · T[®]

FINE SCIENCE TOOLS

Creating a Selection to Fit Your Needs

Scissors · Retractors · Magnifiers · Probes & Hooks · Bone Instruments
Animal Identification · Hemostats · Forceps · Surgical & Laboratory Equipment
Feeding Needles · Spatulae & Spoons Wound Closure · Surgical Plates
Instrument Care & Sterilization · Rongeurs · Scalpels & Knives Clamps · Pins
& Holders · Needles & Needle Holders · Student Quality Instruments and other
useful items you will find in our catalogue 2017!



FINE SURGICAL INSTRUMENTS FOR RESEARCH[™]

Visit us at finescience.de or call **+49 (0)6221 90 50 50**

ORDER OUR CATALOGUE 2017

MEDIS Medical Technology

OP-Kurs-Station für die Anatomie – eine patentierte Weltneuheit!

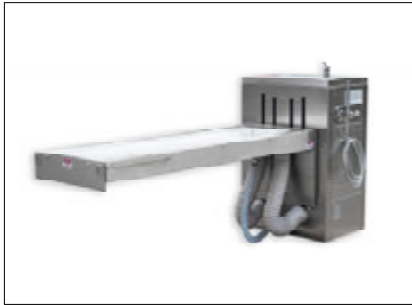


Abb.: OP-Kurs-Raum mit abgesaugten OP-Kurs-Stationen (MA-1790) und Zuluft-Elementen mit Beleuchtung für OP-Training-Kurse der Chirurgen an nativen oder konservierten Körperspendern. Röntgenfähige Transfer-Mulde und barrierefreie Höhenverstellung.
Mit freundlicher Genehmigung der University of Aarhus / Denmark, Anatomy Dept.

Weitere Details finden Sie auf unserer Website!

...entwickelt und hergestellt von MEDIS



MEDIS Medical Technology GmbH

E-Mail: info@medisgmbh.com

Internet: www.medisgmbh.com

HerstellerID-Nr.: Germany 21659

Mitglied im VDP, SPNHC, der Anatomischen Gesellschaft und der Anatomical Society (UK)