

Anatomische Gesellschaft - 105th Annual Meeting -

Hamburg
March 26 – 29, 2010



New Techniques in Microscopy

Michael Frotscher, Freiburg (Germany)

*Structural plasticity of mossy fiber synapses
revealed by high-pressure freezing of
hippocampal slice cultures*

Markus Grabenbauer, Dortmund (Germany)

*Novel developments in correlative light and
electron microscopy*

Alexander Drakew, Freiburg (Germany)

*Two-photon microscopy at individual
dendritic spines of identified hippocampal
synapses*

Bernd Knöll, Tübingen (Germany)

*Live-Cell imaging of neuronal motility and
organelle movements*

Stefan Hell, Göttingen (Germany)

Nanoscopy with focused light

**Programme of the 105th Annual Meeting
Hamburg, Germany
March 26 – 29, 2010**

Main Topic I:

Structural plasticity in the nervous system

Main Topic II:

Cell surface interactions

Papers and Posters from all Branches of Anatomy

Workshop:

New techniques in microscopy

March 26, 2010 – 12:00 – 17:00 p.m.

Satellite Symposium

Implantology

March 26, 2010 – 8:30 – 16:00

Lecture Hall (Pathology) N30

Meeting Place:

Universitätsklinikum Hamburg Eppendorf

Institut für Anatomie (N61) Martinistr. 52

20246 Hamburg

Opening Ceremony:

Friday, March 26, 2010 – 18.00

Anatomy Lecture Hall, UKE

Welcome Reception and Get-together

Reception

Erikahaus, UKE

Professor Dr. med. A. Holstein, Saturday, March 27, 2010 – 19:00

Waldeyer Award Ceremony

Congress Dinner

Sunday, March 28, 2010 – 20:00

Historische Speicherböden, Kehr wieder 4 (Speicherstadt Hamburg)

Business Meeting – Election of the Board

Sunday, March 28, 2010 – 17:00

Anatomy Lecture Hall, UKE

Friday, March 26, 2010 - Lecture Hall

Opening Ceremony 18:00

Words of Welcome

President of the Anatomische Gesellschaft
Professor Dr. Gabriele M. Rune

Prof. Dr. Dieter Lenzen

President of the University of Hamburg

Prof. Dr. Dr. Uwe Koch-Gromus

Dean of the Medical Faculty of Hamburg University

Prof. Dr. Ansgar W. Lohse

Head of the Collegium of the University Medical Center
Hamburg-Eppendorf

Musical Interlude

Opening Ceremony Lecture

Professor Dr. Gabriele M. Rune

“Does anatomy still need anatomists?”

Bargmann Prize Award

Lecture(s) of Laureate(s)

Musical Finale

Welcome Reception and Get-together

Saturday, March 27, 2010

Lecture Hall

Main Topic I,

9:00 – 17:00

Chair: Michael Frotscher

09:00

1

Stefan Schumacher, Ulm (Germany)

New proteins for neuronal process formation.

09:30

2

Hans-Jürgen Kreienkamp, Hamburg (Germany)

The insulin receptor substrate of 53 kDa (IRSp53) regulates cellular morphology and controls synaptic plasticity.

10:00

3

Thomas Misgeld, München (Germany)

In vivo imaging of axonal dynamics in development and disease

10:30

4

Dietmar Kuhl, Hamburg (Germany)

Learning about Arc/Arg3.1 and long-term memory

11:00 – 11:30

COFFEE BREAK

Chair: Tobias Böckers

11:30

5

Eckart Gundelfinger, Magdeburg (Germany)

A potential role of the extracellular matrix in the switch from juvenile to adult plasticity in the CNS

12:15

6

Menachem Segal, Rehovot (Israel)

Calcium stores and neuronal plasticity

13:00 – 14:00

LUNCH

Chair: Stefan Schumacher

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|--------------|----|--|
| 14:00 | 7 | <p>Schwarzacher S, Jungenitz T, Deller T, Frankfurt (Germany)</p> <p>Synaptic activation of newly formed granule cells in the adult hippocampus</p> |
| 14:15 | 8 | <p>Zhou L, Vierk R, Glassmeier G, Rune G, Hamburg (Germany)</p> <p>Aromatase activity in hippocampal neurons and LTP</p> |
| 14:30 | 9 | <p>Jilg A, Ried C, Lautenschütz B, Utech L, Schwegler H, Dehghani F, Stehle J, Frankfurt, Magdeburg, Leipzig (Germany)</p> <p>Role of clock genes in the hippocampal learning and behaviour of mice</p> |
| 14:45 | 10 | <p>Fester L, Zhou L, Hagshenas S, Behem C, Rune G, Hamburg (Germany)</p> <p>ER-alpha and ER-beta in estrogen-regulated spinogenesis</p> |
| 15:00 | 11 | <p>Bender R, Klapetke H, Wilkars W, Hamburg (Germany)</p> <p>Developmental plasticity in perforant path involves changes in presynaptic ion channel expression</p> |
| 15:15 | 12 | <p>Johanning F, Beed P, Trimbuch T, Bendels M, Winterer J, Schmitz D, Berlin (Germany)</p> <p>Distribution of dendritic a-type K+ channels determines plasticity in sensory and associative synapses in the piriform cortex</p> |
| 15:30 | 13 | <p>Niesmann K, Heine M, Schneider R, Brinkhaus L, Missler M, Münster, Magdeburg (Germany)</p> <p>Fast intracellular trafficking and surface motility of the synaptic cell-adhesion molecules neuroligins</p> |
| 15:45 | 14 | <p>Vlachos A, Reddy-Alla S, Papadopoulos T, Deller T, Betz H, Frankfurt (Germany)</p> <p>Developmental stabilization and activity-dependent regulation of gephyrin scaffolds at hippocampal gabaergic synapses</p> |

Saturday, March 27, 2010

Lecture Hall

Main Topic I

9:00 – 17:00

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|--------------|----|--|
| 16:00 | 15 | <i>Wagener R, Haas C, Zhao S, Staiger J, Freiburg (Germany)</i>
Developmental plasticity in reeler mutant mice leads to columnar activation of functional cortical modules |
| 16:15 | 16 | <i>Schaefer M, Nam Y, Keglwich L, Bouché E, Kueffner M, Bock H, Frotscher M, Freiburg (Germany)</i>
Clinical L1-CAM mutations cause neuronal L1 trafficking defects by divergent mechanisms |
| 16:30 | 17 | <i>Haas S, Hilla A, Reinhardt D, Schmitt O, Wree A, Rostock (Germany)</i>
Mice differ from rats: detection of tyrosine hydroxylase-containing neurons in the mouse striatum after 6-OHDA injection |
| 16:45 | 18 | <i>Rusu MC, Pop F, Mirancea N, Bucharest (Romania)</i>
Pterygopalatine diabetic neuropathy: evidence of cell death presence and possible etiology of the diabetic dry eye syndrome |
| 17:00 | | <i>Poster Session I</i>
<i>Dissection Hall</i> |

Chair: Magdalena Müller-Gerbl

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|--------------|----|---|
| 9:00 | 19 | <p><i>Steinke H, Kürtül I, Suganthi R, Leipzig (Germany), Hatay (Turkey), Vellore (India)</i></p> <p>Embedding in a sac: a new technique in the casting and curing stage of plastination</p> |
| 9:15 | 20 | <p><i>Shiozawa T, Lammerding-Koeppel M, Tuebingen (Germany)</i></p> <p>Are combined professionally and didactically trained student tutors an effective support for students in the dissection course?</p> |
| 9:30 | 21 | <p><i>Hirt B, Shiozawa T, Tuebingen (Germany)</i></p> <p>Tuebingen's "sectio chirurgica" – an innovative, transdisciplinary teaching concept</p> |
| 9:45 | 22 | <p><i>Matei A, Schmidt N, Muresan M, Rotar I, Branzaniuc K, Cluj-Napoca, Targu-Mures (Rumania)</i></p> <p>Anatomy of a mermaid</p> |
| 10:00 | 23 | <p><i>Rusu MC, Niculescu V, Bucharest, Timisoara (Rumania)</i></p> <p>Combining the players into a team: the trigeminal-autonomic system</p> |
| 10:15 | 24 | <p><i>Neagos C, Graur F, Pop C, Blidaru D, Litean O, Nagy C, Nagy C, Cluj-Napoca (Rumania)</i></p> <p>Enterocolic volvulus through common mesentery – case report</p> |
| 10:30 | 25 | <p><i>Draeger A, Sanchez-Freire V, Monastyrskaya K, Hoppeler H, Mohaupt M, Babychuk E, Bern (Switzerland)</i></p> <p>Statin therapy affects the expression of genes that regulate calcium homeostasis and membrane repair in skeletal muscle</p> |
| 10:45 | 26 | <p><i>Hesse B, Schilling N, Fischer M, Fröber R, Jena (Germany)</i></p> <p>Are there anatomical adaptations to bipedalism in the human lumbar perivertebral musculature?</p> |

11:00-11:30

COFFEE BREAK

Chair: Thomas Pufe

- 11:30** 27 ***Doberauer J, Wurzinger L, Mueller-Gerbl M, Putz R, Munich (Germany), Basel (Switzerland)***
Trabecular bone architecture in human thoracic vertebrae – a micro-CT study
- 11:45** 28 ***Theis S, Valasek P, Otto A, Harel I, Tzhor E, Tajbakhsh S, Christ B, Huang R, Patel K, Freiburg (Germany), Reading (UK), Rehovot (Israel), Paris (France), Bonn (Germany)***
The occipital somatic lateral plate mesoderm – a novel source for vertebrate neck musculature
- 12:00** 29 ***Geetha-Loganathan P, Nimmagadda S, Christ B, Huang R, Scaal M, Freiburg, Bonn (Germany), Vancouver (Canada),***
Ectodermal wnt6 is an early negative regulator of limb chondrogenesis in the chicken embryo
- 12:15** 30 ***Allerstorfer D, Michael B, Innsbruck, (Austria)***
VEGF is important for the early vascularization of the long bone epiphysis
- 12:30** 31 ***Geyer S, Chipman A, Rasskin-Gutman D, Weninger W, Vienna (Austria), Jerusalem (Israel), Valencia (Spain)***
HREM for visualizing gene expression patterns in early embryos
- 12:45** 32 ***Wilting J, Becker J, Pavlakovic H, Albuquerque R, Weich H, Ambati J, Goettingen (Germany), Lexington (USA), Brunswick (Germany)***
Endogenous anti-lymphangiogenesis

13:00-14:00

LUNCH

Chair: Bernd Fischer

- 14:00** 33 ***Bai Z, Pu Q, Hans M, Swandulla, D, Wang J, Huang R, Gansu (China), Bonn, Freiburg (Germany),***
Intrinsic patterning properties of the neural tube regulating the nerve root pattern of the branchiomotor nerve

- 4:15** 34 **Tohidnezhad M, Breuer F, Beckmann R, Lippross S, Varoga D, Bornemann J, Bovi M, Hermanns-Sachweh B, Wruck C, Pufe T, Aachen, Kiel (Germany)**
New insight into the role of prp in fracture healing
- 14:30** 35 **Mietens A, Feuerstacke C, Tasch S, Mueller D, Middendorff R, Giessen (Germany)**
Inhibition of cgmp-specific pde5 induces relaxation of the epididymal duct
- 14:45** 36 **Wandernoth P, Mannowetz N, Raubuch M, Wennemeuth G, Homburg (Germany)**
Localization and function of carbonic anhydrase 2 in the murine male reproductive tract
- 15:00** 37 **Giese S, Hossain H, Brehm R, Bergmann M, Tchatalbachev S, Izar B, Chakraborty T, Guillou F, Willecke K, Giessen, Hannover, Bonn (Germany), Nouzilly (France)**
The effect of a Sertoli cell-specific knockout of connexin 43 on testicular gene expression in prepubertal mice
- 15:15** 38 **Mannowetz N, Raubuch M, Wandernoth P, Wennemuth G, Homburg (Germany)**
Distribution of basigin (cd147) and monocarboxylate transporters in the male reproductive tract
- 15:30** 39 **Serke H, Bausenwein J, Hirrlinger J, Vilser C, Jogschies P, Hmeidan F, Blumenauer V, Spanel-Borowski K, Leipzig (Germany)**
The oxLDL-dependent responses in granulosa cell subtypes is cell type-specific in respect to specific lipoprotein receptors and antioxidant activity
- 15:45** 40 **Navarrete Santos A, Thieme R, Ramin N, Fischer S, Schindler M, Fischer B, Halle (Germany)**
Maternal diabetes influences the IGF system in the preimplantation rabbit blastocyst
- 16:00** 41 **Kweider N, Rosen C, Fragoulis A, Tohidnezhad M, Brandenburg L, Pufe T, Wruck C, Aachen (Germany)**
Activation of nrf2/ARE pathway by VEGF in the human trophoblastic BeWo cell line

Immunology**16:15 – 17:00**

- 16:15** 42 ***Shved N, Berishwili G, Baroiller J, Mazel P, Reinecke M, Eppler E, Zurich (Switzerland), Montpellier (France)***
Growth hormone (gh) differentially acts on the gh/IGF-system in adult tilapia immune organs
- 16:30** 43 ***Laufs J, Tohidnezhad M, Brandenburg L, Varoga D, Pufe T, Wruck C, Aachen, Kiel (Germany)***
Sulforaphane suppresses inflammation and induces apoptosis in TNF α stimulated synoviocytes
- 16:45** 44 ***Wruck C, Tohidnezhad M, Brandenburg L, Varoga D, Kan Y, Eickelberg O, Pufe T, Aachen, Kiel, Munich (Germany), San Francisco (USA)***
Nrf2 induces IL-6 expression via an antioxidant response element within the IL-6 promoter
- 17:00** ***Poster Session I***
Dissection Hall

- P1 **Vierk R, Pflüger H, Duch C, Hamburg, Berlin (Germany), Tempe (USA)**
Differential effects of octopamine and tyramine on the central pattern generator for manduca flight
- P2 **Wilkars W, Mohr E, Bender R, Hamburg (Germany)**
Identification of potential n-terminal binding partners of HCN1-channels by Y2H-analysis
- P3 **Kohrs S, Klapetke, Wilkars W, Bender R, Hamburg (Germany)**
Developmental and activity-dependent changes of ADAM22 expression in dentate gyrus granule cells
- P4 **Wittenmayer N, Gottmann K, Dresbach T, Heidelberg, Düsseldorf (Germany)**
Postsynaptic neuroligin-1 regulates presynaptic maturation
- P5 **Slowik A, Mohr F, Wruck C, Pufe T, Brandenburg L, Aachen (Germany)**
Functional interaction between formyl peptide receptor like 1 (FPRL1) and receptor for advanced glycation end products (RAGE) in the amyloid- β 1-42-induced signal transduction glial cells
- P6 **Braunger BM, Pielmeier SM, Tamm ER, Regensburg (Germany)**
Conditional knock out of the type 2 TGF-beta receptor in neurons of the mouse retina results in increased ontogenetic cell death
- P7 **Johann S, Beyer C, Arnold S, Aachen (Germany)**
Effect of estrogen on mitochondria in the mouse spinal cord
- P8 **Hattermann K, Heldt-Feindt J, Lucius R, Mentlein R, Kiel (Germany)**
CXCR7, an alternative receptor for CXCL12/SDF-1, is expressed in human glioma cells and mediates anti-apoptotic effects
- P9 **Kretz O, Magno L, Loreth D, Monyer H, Naumann T, Freiburg, Berlin, Heidelberg (Germany)**
NKX2.1 transcription factor is necessary for the proper development and maintenance of hypothalamic neurons within the arcuate nucleus

- P10 **Held-Feindt J, Mentlein R, Hattermann K, Kiel (Germany)**
Chemokine/chemokine receptor regulation by differentiation of glioblastoma-derived stem-like cells
- P11 **Antipova V, Hawlitschka A, Dräger D, Benecke R, Mix E, Wree A, Rostock (Germany)**
Changes in behaviour of hemiparkinsonian rats after intrastriatal injection of botulinum neurotoxin A
- P12 **Pócsai K, Bagyura Z, Kálman M, Budapest (Hungary)**
Immunohistochemical studies on rat adenohypophysis: ii. Cell populations intensely immunopositive to ezrin
- P13 **Rysevaite K, Saburkina I, Pauziene N, Pauza D, Kaunas (Lithuania)**
Morphologic and immunohistochemical analysis of the mouse intrinsic cardiac nervous system
- P14 **Born, G, Langhorst H, Niesmann K, Weiqi Z, Missler M, Muenster (Germany)**
Deletion of the complete neurexin 2 gene causes altered synaptic plasticity in mice
- P15 **Schroedl F, Bogner B, Runge C, Strohmaier C, Brandtner H, Reitsamer H, Salzburg (Austria)**
Localization of vasopressin-receptor subtype V1 in ocular tissues of different species: first results
- P16 **Dinulescu D, Maghiar T, Pop O, Oradea (Romania)**
Histological profile of the brain arteries and the relationship with the aneurysm
- P17 **Meseke M, Trinkmann A, Huber C, Foerster E, Hamburg (Germany)**
Reelin effects on process differentiation of hippocampal neurons in vitro
- P18 **Dinulescu D, Maghiar T, Pop O, Sabau M, Frandes C, Oradea, Arad (Romania)**
Histological analysis of cerebral artery about brain aneurysms
- P19 **Baader B, Meseke M, Foerster E, Hamburg (Germany)**
How do astrocytes respond to reelin in vitro?

- P20 **Bagyura Z, Pócsai K, Kálman M, Budapest (Hungary)**
Immunohistochemical studies on rat adenohypophysis: i. components of basal lamina- and dystrophin-dystroglycan complex selective mark some cells of the pars distalis
- P21 **Lange E, Stier U, Reuss S, Mainz (Germany)**
Central vestibular processing in rats, neuronal tracing based on micro-pet studies
- P22 **Pauza D, Saburkina I, Rysevaite K, Pauzaite J, Pauziene N, Kaunas (Lithuania)**
The morphological pattern of the Marshall ligament in heart of humans, dogs and sheep
- P23 **Dunse M, Paulsen F, Posa A, Jäger K, Halle (Germany)**
Pathophysiology of urea in tear film
- P24 **Seitz M, Seitz M, Grosheva M, Bendella H, Angelova S, Jungnickel J, Grothe C, Angelov D, Cologne, Hannover (Germany)**
Accurate muscle reinnervation and subsequent recovery of motor function after facial nerve injury require fibroblast growth factor 2 (FGF-2)
- P25 **Kiryakova S, Soehnchen J, Grosheva M, Schuetz U, Dzhupanova R, Marinova T, Sinis N, Huebbers C, Skouras E, Ankerne J, Fries J, Irintchev A, Dunlop S, Angelov D, Cologne, Jena (Germany), Sofia (Bulgaria), Perth (Australia)**
Recovery of whisking function promoted by manual stimulation of the vibrissal muscles after facial nerve injury requires insulin-like growth factor 1 (IGF-1)
- P26 **Hizay A, Seitz M, Grosheva M, Jungnickel J, Sarikcioglu L, Grothe C, Angelov D, Antalya (Turkey)**
Lack of fibroblast growth factor 2 (FGF-2) is not associated with reduced astrogliosis in the motor nucleus after facial nerve injury
- P27 **Oehring H, Widder J, Appenroth D, Fleck C, Jirikowski J, Jena (Germany)**
Impact of uranyl nitrate intoxication on renal morphology in rat, an immuno electron microscopical study

- P28 ***Mahalek J, Sadeghian S, Kálmán M, Budapest (Hungary)***
Post-lesional alterations of dystrophin-dystroglycan complex detected by fluorescent immunohistochemical reactions following freezing lesion in rat brains
- P29 ***Schmitt O, Eipert P, Phillip K, Rostock (Germany)***
Intrinsic connectivity analysis of the rat amygdala
- P30 ***Lettau I, Hattermann K, Held-Feindt J, Radislav S, Mentlein R, Kiel (Germany), Prague (Czech Republic)***
Matrix metalloproteinase-19 (MMP19) is highly expressed in astrocytomas and promotes invasion of glioma cells
- P31 ***Von Bohlen und Halbach O, Waltereit R, Bartsch D, Greifswald, Mannheim (Germany)***
Deletion of SRGAP3 affects brain architecture
- P32 ***Föhring D, Theiss C, Bochum (Germany)***
VEGF signalling in the neuronal growth cone
- P33 ***Bonn M, Schmitt A, Asan E, Wuerzburg (Germany)***
Comparison and combination of enzyme-based cytochemical and fluorescence in situ hybridization for peptide and monoamine receptor mRNA in rat brain: chances and limitations
- P34 ***Beed P, Bendels M, Wiegand H, Leibold C, Schmitz D, Jochenning F, Berlin, Munich (Germany)***
Microcircuitry in the medial entorhinal cortex reveals a cell-type specific and modular organization
- P35 ***Nielitz A, Paulsen F, Garreis F, Jaeger K, Halle, (Germany)***
Functional relationship between cationic amino acid transporters and β -defensins
- P36 ***Rodi M, Javeri S, Rottlaender A, Addicks K, Kuerten S, Cologne (Germany)***
Delineating the impact of neuroantigen vs genetic diversity on MP4-induced autoimmune encephalomyelitis of C57BL/6 and B6.129 mice
- P37 ***Schneider R, Welt K, Kluge R, Fitzl G, Leipzig (Germany)***
Cardiac autonomic neuropathy in diabetic bb rats and its protection by ginkgo biloba extract. A semiquantitative morphologic, immunohistochemical, and in-vivo scintigraphic study

- P38 **Korte N, Grothe C, Haastert K, Hannover (Germany)**
Evaluation of periodical electrodiagnostical measurements to monitor recovery of motor function in rat models of peripheral nerve regeneration
- P39 **Ohlmann A, Seitz R, Hackl S, Seibuchner T, Tamm E, Regensburg (Germany)**
Norrin mediates neuroprotective effects on retinal ganglion cells (RGC) via activation of the WNT/(beta)-catenin pathway and the induction of neurotrophic growth factors
- P40 **Koch M, Paper W, Tamm E, Regensburg (Germany)**
Mice with a targeted mutation in pancortin are more susceptible to light-induced photoreceptor damage
- P41 **Lessner G, Haas S, Wree A, Michael K, Mikkat S, Glocker M, Schmitt O, Rostock (Germany)**
Differential proteome analysis of 6-OHDA hemi-lesioned rats
- P42 **Kallendrusch S, Koch M, Grabiec U, Ghadban C, Dehghani F, Leipzig (Germany)**
Differential regulation of endocannabinoids after entorhinal cortex lesion in organotypic hippocampal slice cultures
- P43 **Hoeltje M, Boato F, Hendrix S, Huelsenbeck S, Klimaschewski L, Auer M, Just I, Ahnert-Hilger G, Berlin, Hannover (Germany), Innsbruck (Austria)**
C3 peptide treatment enhances functional recovery from spinal cord injury by improved regenerative growth of corticospinal and raphespinal fibers
- P44 **Merz F, Bechmann I, Leipzig (Germany)**
(Human) tissue slice cultures: a novel tool to evacuate biological effects of heavy ions
- P45 **Wellmann K, Ankerne J, Stein G, Semler O, Grosheva M, Maier S, Irintchev A, Angelov D, Cologne, Jena (Germany)**
Recovery of motor functions after compression spinal cord injury in rats. A video-based assessment
- P46 **Grabiec U, Koch M, Kallendrusch S, Ghadban C, Dehghani F, Leipzig (Germany)**
Neuroprotection of n-arachidonyl-dopamine is mediated by cannabinoid (CB) receptor and transient receptor potential (TRP) V1

- P47 **Avula L, Buckinx R, Alpaerts K, Adriaensen D, Van Nassauw L, Timmermans J, Antwerp (Belgium)**
Expression and distribution of mas-related gene (Mrg) receptors E and F in the normal and inflamed murine ileum
- P48 **Sommer D, Neuhuber W, Woerl J, Erlangen (Germany)**
A possible excitatory co-innervation of striated muscle in the mouse esophagus
- P49 **Hempfling C, Neuhuber W, Woerl, Erlangen (Germany)**
Serotonergic neurons in the mouse esophagus: focus on enteric coinnervation of striated muscles
- P50 **Raab M, Boeckers T, Neuhuber W, Erlangen, Ulm (Germany)**
Proline-rich synapse-associated protein-1 and 2 (proSAP1 and proSAP2) - scaffolding proteins also in the postsynaptic density of the peripheral nervous system (PNS)
- P51 **Schroeder T, Schroeder, T, Kosacka J, Kloeting N, Gericke M, Spanel-Borowski K, Leipzig (Germany)**
Pituitary adenylate cyclase-activating polypeptide (PACAP) influences the synthesis of apolipoprotein D (ApoD) and adiponectin in 3T3-L1-adipocytes
- P52 **Ortug G, Eskisehir (Turkey)**
Anatomists from Europe honoured with a medal from the Ottoman-Turkish Empire
- P53 **Kooistra-Akse B, Wijbenga B, Koning R, Gerrits P, Groningen (the Netherlands)**
Actuarial prediction in an anatomical body donation program; "last-minute" donations markedly influence the number of incoming bodies
- P54 **Winkelmann A, Berlin (Germany)**
Should we teach Abernethy and Zuckerkandl?
- P55 **Motoc A, Ilie A, Jianu A, Stana L, Sisu A, Selaru M, Sava A, Timisoara (Romania)**
The ultrasound: preoperative predictive factor for conversion of mini-cholecystectomy into classic cholecystectomy
- P56 **Motoc A, Sava A, Ilie A, Jianu A, Stana L, Selaru M, Valceanu A, Timisoara (Romania)**
Transtumoral esophageal endoprosthesis by mini-laparotomy after endoscopic failure

- P57 **Nohroudi K, Addicks K, Jordan A, Himmelreich U, Berlin (Germany), Leuven (Belgium)**
In vivo MRI stem cell tracking using iron oxide particles – size is of concern
- P58 **Pilmane M, Skagers A, Riga (Latvia)**
The morphology of temporomandibular joint (TMJ) ankylosis in children
- P59 **Balnyte I, Kaunas (Lithuania)**
Left ventricular fibrillar collagenous network remodeling in rabbits' ischemic myocardium
- P60 **Wang B, De R, Patel K, Wilting J, Huang R, Goettingen, Bonn (Germany), Reading (UK)**
Commitment of scapular precursor cells after epithelio-mesenchymal transition of the dermomyotome
- P61 **Radtke J, Kuerten S, Nohroudi K, Addicks K, Arnhold S, Giessen (Germany)**
Structural changes of retinal cell layers in two rat glaucoma models
- P62 **Haane C, Peldschus K, Brenner W, Wilke F, Pommert A, Schumacher U, Valentiner U, Hamburg (Germany)**
[18F] fluoro-deoxy-glucose and [18F] fluoro-1-thymidine positron emission tomography-computed tomography and magnetic resonance imaging of human neuroblastomas in a SCID mouse xenograft model
- P63 **Radtke J, Kuerten S, Nohroudi K, Arnhold S, Addicks K, Cologne, Giessen (Germany)**
VEGF and GFAP mediate vascular outgrowth and glia matrix changes in rat glaucoma models
- P64 **Wirkes A, Ochs M, Muehlfeld C, Giessen, Hannover (Germany)**
Allometry of the mammalian pulmonary surfactant system
- P65 **Hovakimyan M, Stachs O, Reichard M, Rolfs A, Lukas J, Frech M, Guthoff R, Witt M, Wree A, Rostock (Germany)**
Corneal and retinal morphology in a mouse model of NPC1 disease
- P66 **Krieger-Hinck N, Carlsson M, Mueller A, Schumacher U, Valentiner U, Hamburg, (Germany)**
The effect of PPAR-gamma agonists on human neuroblastoma cell growth in vitro and in a xenograft mouse model

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- P67 ***Nehmann N, Wicklein D, Schumacher U, Mueller R, Hamburg (Germany)***
 Detection of human tumor cells in mouse blood: molecular biology (quantitative RT-PCR) versus cell biology (laser scanning cytometry) – which method should be applied?
- P68 ***Dina C, Bulbuci, Dimitriu CP, Bordei P, Constanta, (Rumania)***
 Morphological considerations on arteries that form the cerebral arterial circle
- P69 ***Dina E, Iliescu D, Ionescu C, Bordei P, Constanta (Rumania)***
 Peculiar morphological aspects of the intracranial trigeminal nerve
- P70 ***Namm A, Arend A, Aunapuu M, Tartu (Estonia)***
 BMP2 and BMP4 expression in early stages of neural tube formation in human embryos
- P71 ***Brichova H, Zima T, Prague (Czech Republic)***
 Differentiation of radial glia and vascularization under the chronic hypobaric hypoxia and chronic ethanol treatment of pregnant rat dams in prosencephalon and telencephalon

Sunday, March 28, 2010

Lecture Hall

Main Topic I

9:00 – 13:00

Plenary Lecture

12:15 –13:15

Chair: Horst-Werner Korf

9:00 45 **Kerstin Kutsche, Hamburg (Germany)**

AlphaPix knock out mouse: a model for non-specific X-linked mental retardation

9:30 46 **Carlo Sala, Milan (Italy)**

The X-linked mental retardation protein II RAPL1 controls PSD-95 phosphorylation by INK to regulate synaptic functions

10:00 47 **Markus Glatzel, Hamburg (Germany)**

Protein overload responses and oligomer-formation in neuroserpin dementia

10:30 48 **Janine Prange-Kiel, Dallas (USA)**

Hippocampal aromatase expression in Alzheimer's disease

11:00 – 11:30

COFFEE BREAK

Chair: Eckart Förster

11:30 49 **Michael Frotscher, Freiburg (Germany)**

Role of Reelin in the aged brain

Plenary Lecture:

12:15 50 **Carlos Dotti, Leuven (Belgium)**

Brain lipid changes in the aging brain: incidence on survival and plasticity

13:15 – 14:00

LUNCH

Chair: Jürgen Westermann

- | | | |
|--------------------|----|--|
| 9:00 | 51 | <p>Huebner L, Huebner L, Hannover (Germany)</p> <p>The activation of human natural Killer (NK) cells is modulated by adipokines</p> |
| 9:15 | 52 | <p>Fragoulis A, Gurzynski A, Varoga D, Brandenburg L, Pufe T, Wruck C, Aachen, Kiel (Germany)</p> <p>Genetic disruption of NRF2 impairs articular destruction in a mouse model of rheumatoid arthritis</p> |
| 9:30 | 53 | <p>Brandenburg L, Braun B, Leib S, Jansen S, Lucius R, Wruck C, Pufe T, Aachen, Kiel (Germany), Bern (Switzerland)</p> <p>Involvement of scavenger receptor MARCO and formyl peptide receptor-like-1 in neisseria meningitidis-induced antimicrobial peptide rCRAMP expression by glial cells</p> |
| 9:45 | 54 | <p>Oedemis V, Engele J, Leipzig (Germany)</p> <p>CXCR7 is a major component of SDF-1 signalling in astrocytes</p> |
| 10:00 | 55 | <p>Kuerten S, Javeri S, Kirch C, Lehmann P, Addicks K, Cologne (Germany), Cleveland (USA)</p> <p>MP4-, MOG:35-55- and PLP:178-191- induced experimental autoimmune encephalomyelitis (EAE) of C57BL/6 mice – three models, three different patterns of demyelination and axonal damage</p> |
| 10:15 | 56 | <p>Javeri S, Rodi M, Lehmann P, Addicks K, Kuerten S, Cologne (Germany), Cleveland (USA)</p> <p>Deficiency in BDNF alleviates autoimmune encephalomyelitis by affecting peripheral immunity to neuroantigen</p> |
| 10:30 | 57 | <p>Jansen S, Leib S, Wilms H, Wruck C, Podschun R, Lucius R, Pufe T, Brandenburg L, Aachen, Heidelberg, Kiel (Germany), Bern (Switzerland)</p> <p>Induction of antimicrobial peptide psoriasin by bacterial components in glial cells</p> |
| 10:45 | 58 | <p>Klein D, Weisshardt P, Kleff V, Erguen S, Essen (Germany)</p> <p>Local progenitors in the vascular wall: MSC-derived pericytes in vascular morphogenesis</p> |
| 11:00-11:30 | | COFFEE BREAK |

Sunday, March 28, 2010

Microscopy Hall

Immunobiology, Cell Biology

9:00 – 12:15

11:30 59 ***Muturi H, Scheffrahn I, Derya T, Erguen S, Singer B, Essen, Munich (Germany)***

A novel truncated CEACAM1 form appears due to turnover processes in aging human epithelial and endothelial cells

11:45 60 ***Buhrmann C, Mobasheri A, Matis U, Schakibaei M, Munich (Germany), Nottingham (UK)***

Curcumin promotes differentiation of mesenchymal stem cells to chondrocytes by suppression of NF-KB in a 3-dimensional co-culture model of osteoarthritis

12:00 61 ***Proels F, Effelsberg N, Simiantonaki N, Tsaryk R, Hellmann C, Freiburg, Leverkusen, Mainz (Germany)***

Pattern of ER-specific chaperones in inflamed tissue

Plenary Lecture: (Lecture Hall)

12:15 50 ***Carlos Dotti, Leuven (Belgium)***

Brain lipid changes in the aging brain: incidence on survival and plasticity

13:15-14:00

LUNCH

- P72 **Mueller I, Ullrich S, Hellwinkel O, Schumacher U, Hamburg (Germany)**
Human prostrate cancer xenograft in PFP/RAG2 double knock out mice: modelling spontaneous metastasis
- P73 **Dahl A, Meyer A, Dautel P, Pfueller U, Sander F, Ehm A, Nehmann N, Krieger-Hinck, N, Schumacher U, Hamburg (Germany)**
Effects of purified mistletoe lectin I (ML-I) compared with aqueous mistletoe extracts on melanoma growth and metastasis in a SCID mouse model
- P74 **Kant S, Holthoefer B, Hofe V, Eshkind L, Windoffer R, Leube R, Krusche C, Aachen, Mainz (Germany)**
Altered proliferation, cell death and fibrosis in desmoglein 2 mutant mice
- P75 **Peter D, Spindler V., Asan E, Waschke J, Wuerzburg (Germany)**
Role of Rac1 in cAMP-mediated reorganization of intercellular junctions – first insight from electron microscopy
- P76 **Vielmuth F, Waschke J, Spindler V, Wuerzburg (Germany)**
Increased cAMP protects against pemphigus-IgG-mediated loss of keratinocyte cohesion
- P77 **Stuebke K, Schumacher U, Wicklein D, Nehmann N, Hamburg (Germany)**
Characterization of EpCAM-expression in breast cancer spread
- P78 **Valentiner U, Valentiner F, Schumacher U, Hamburg (Germany)**
Expression of CD44 is associated with metastatic pattern of human neuroblastoma cells in a SCID mouse xenograft model
- P79 **Kempf B, Spindler V, Waschke J, Wuerzburg (Germany)**
Initial loss of cell adhesion in pemphigus vulgaris does not require depletion of desmoglein 3
- P80 **Borowski T, Mutig K, Paliege A, Uchida S, Bader M, Bachmann S, Berlin (Germany), Tokyo (Japan)**
Characterization of a rat model with suppressed V2R vasopressin receptor signalling in the thick ascending limb and distal convoluted tubule
- P81 **Claus P, Foerthmann B, Noelle A, Grothe C, Hannover, (Germany)**
Fibroblast growth factor – 2 (FGF-2) influences the dynamics of nuclear proteins

- P82 **Mertins S, Kleff V, Hohn H, Singer B, Erguen S, Essen (Germany)**
Contribution of vascular wall-resident progenitor cells (VW-EPCS) to tumor vascularization
- P83 **Ackermann P, Richter A, Schroeder I, Keller N, Schicht M, Paulsen F, Halle, Luebeck (Germany)**
Isolation and characterization of stem cells from adult lacrimal glands
- P84 **Schob S, Paulsen F, Stiller D, Braeuer L, Halle (Germany)**
First detection of surfactant proteins A, B, C and D in tissues of the human brain and in cerebrospinal fluid
- P85 **Barham M, Picker S, Oustianskaja L, Krafczyk T, Gathof B, Neiss W, Cologne (Germany)**
Ultrastructure of human thrombocytes after pathogen reduction treatment in blood bank preparations
- P86 **Oehlke O, Martin H, Roussa E, Freiburg (Germany)**
Regulation of NBCel-A and NBCel-B in mouse hippocampal neurons in vitro
- P87 **Buttler K, Wilting J, Schniedermann J, Rennecke M, Richter G, Staedtler A, Norgall S, Badar M, Barleon B, May T, Weich H, Goettingen, Brunswick, Wolfenbuettel (Germany)**
Bipotent endothelial progenitor cells from the adult mouse lung
- P88 **Hufeland M, Schuenke, Grodzinsky A, Kurz B, Kiel (Germany), Cambridge (USA)**
Mechanical injury of meniscal tissue: an in vitro model
- P89 **Garreis F, Valtink M, Paulsen F, Pleyer U, Mergler S, Halle, Dresden, Berlin (Germany)**
Temperature-sensing by the human conjunctival epithelium through activation of transient receptor potential vanilloid (TRPV) channels
- P90 **Dieckow J, Schulze U, Paulsen F, Halle (Germany)**
CXCR4 and CXCR7 – two potential receptors for FTT3 at the ocular surface
- P91 **Schulze U, Sel S, Paulsen F, Halle (Germany)**
TFF3 promotes migration and effects corneal extracellular matrix remodeling
- P92 **Ewald K, Naujokat H, Schuenke M, Kurz B, Kiel (Germany)**
Influence of 17beta-estradiol on pre-inflammatory cytokine-induced degradation of meniscal tissue

- P93 ***Naujokat H, Ewald K, Schuenke M, Kurz B, Kiel (Germany)***
17beta-estradiol reduces IL-1 alpha-mediated matrix degradation via intracellular receptors in bovine articular cartilage
- P94 ***Schulze-Tanzil G, Li L, Kohl B, Ertel W, John T, Berlin (Germany)***
Characterization of lapine achilles and supraspinatus tendons in terms to establish a tenon healing mode in the rabbit
- P95 ***Dougbag A, Roshdy K, Zidan M, Zaghloul D, Alexandria (Egypt)***
Hassall's corpuscles of camel thymus (camelus dromedaries)
- P96 ***Veyhl-Wichmann M, Vernaleken A, Kipp H, Gorboulev V, Koepsell H, Wuerzburg (Germany)***
Posttranscriptional inhibition of the NA+-D-glucose cotransporter hSGLT1 by transporter regulator hRS1 is modulated by PKC and CamK2
- P97 ***Hart K, Schmidt J, Kurz R, Robitzki A, Fischer B, Halle, Leipzig (Germany)***
Induction of obesity and impairment of fertility by di-(2-ethylhexyl) phthalate (DEHP) exposure
- P98 ***Bittner A, Horsthemke B, Winterhager E, Gruemmer R, Essen (Germany)***
Effect of hormonal-induced delayed ovulation on the fertility and embryonic development in mice
- P99 ***Buck V, Windoffer R, Leube R, Hombach-Klonisch S, Klonisch T, Classen-Linke I, Aachen (Germany), Winnipeg (Canada)***
Redistribution of desmosomes in human endometrial epithelial cells during the menstrual cycle
- P100 ***Sannecke C, Moenkedieck V, Toetsch M, Kumbartski M, Kimmig R, Winterhager E, Gruemmer R, Essen (Germany)***
Effect of progestins on angiogenesis and decidualization in ectopic human endometrial lesions in a nude mouse model.
- P101 ***Bhushan S, Lu Y, Tchatalbachev S, Mikulski Z, Hossain H, Klug J, Chakraborty T, Meinhardt A, Giessen (Germany)***
Uropathogenic escherichia coli activate calcineurin dependent NFAT signalling pathway in testicular macrophages
- P102 ***Thong A, Mueller D, Schneider-Hüther I, Middendorff R, Giessen (Germany)***
Neutral endopeptidase is abundantly epididymis localized to distinct populations of epithelial cells

- P103 **Guenther S, Bergmann M, Nagy A, Lomeli H, Brehm R, Giessen, Hannover (Germany), Toronto (Canada), Cuernavaca (Mexico)**
Cx43floxed LacZ-TNAP-Cre-mutant mouse model
- P104 **Reshetnikov E, Akulova L, Dobrodomova I, Krikun, Churnosov M, Belogorod (Russia)**
Search of associations of polymorphic markers of gene vascular reactions with echocardiographic indicators in pregnant women in norm and at preeclampsia
- P105 **Bienek M, Busslinger M, Willecke K, Winterhager E, Gruemmer R, Essen, Bonn (Germany), Vienna, (Austria)**
Effect of tissue-specific Cx26 deletion in the uterine epithelium on embryo implantation in the mouse
- P106 **Pilmane M, Boka S, Fodina V, Riga (Latvia)**
Morphology of growth retarded and regrowing invalid for implantation of human embryos after in vitro fertilization (IVF)
- P107 **Berishvili G, Baroiller J, Eppler E, Reinecke M, Zurich (Switzerland), Montpellier (France)**
Insulin-like growth factor-3 (IGF-3) in male and female gonads of the tilapia: development and regulation by growth hormone (GH) and 17alpha-ethinylestradiol (EE2)
- P108 **Frandes C, Radu A, Hermenean A, Sferdian M, Goldis D, Arad (Romania)**
The IHC using monoclonal anti-vim antibody of the primary trophoblast at the placental level in different prematurity stages
- P109 **Bausenwein J, Serke H, Hirrlinger J, Hmeidani FA, Blumenauer V, Spaniel-Borowski K, Leipzig (Germany)**
Alterations of catalase activity and oxLDL in follicular fluid of obese women: the reason for impaired IVF-outcome
- P110 **Radu A, Frandes C, Hermenean A, Sferdian M, Stretcu L, Arad (Romania)**
The immunohistochemical expression of alpha-FP placentas from the births of encephalic pole developmental problem fetuses
- P111 **Khalaf M, Yusuf F, Brand-Saberi B, Bochum (Germany)**
A study of the expression pattern of genes expressed in the chicken embryo mesonephros
- P112 **Dorfmeister K, Schmid S, Geyer S, Weninger W, Vienna (Austria)**
EFIC and AMP; HREM: comparing two episcopic 3d-volume data generation techniques

- P113 **Halacheva V, Reupke T, Viebahn C, Goettingen (Germany)**
Factors controlling cell migration and division during axis formation in the mammalian embryo
- P114 **Maurer B, Geyer S, Weninger W, Vienna (Austria)**
A case of conjoined cephalothoracopagus twinning in a chick embryo HH30. Morphology and morphometry of cardiovascular structures
- P115 **Balakrishnan-Renuka A, Morosan-Puopolo G, Philippi S, Lu Y, Yusuf F, Patel K, Otto A, Brand-Saberi B, Freiburg, Bochum (Germany), Reading (UK)**
Exploring the roles of bHLH transcription factor ATOH8 during embryonic myogenesis and satellite cell differentiation
- P116 **Tsikolia N, Sakurai M, Spanel-Borowski K, Ricken A, Leipzig (Germany), Ibaraki (Japan)**
Stem cell factor and kit localize in the bovine meso- and metanephros comparably
- P117 **Adam N, Fritsch H, Innsbruck (Austria)**
Epithelial regionalization of the human female developing genital tract
- P118 **Reupke T, Halacheva V, Viebahn C, Goettingen (Germany)**
Premitotic cell migration and oriented cell division prior to primitive streak formation in the rabbit blastocyst
- P119 **Stoeckelhuber M, Eckey T, Buchholz M, Kapsimalakou S, Stoeckelhuber B, Luebeck (Germany)**
Situs inversus: anatomical aspects by magnetic resonance imaging
- P120 **Çolak T, Bamaç B, Colak, Byazıt, Demirci, Meric, Dundar, Selekler, Bahadır, Ozbek, Kocaeli (Turkey)**
Evaluation of nerve conduction velocities of the median, ulnar and radial nerves of basketball players
- P121 **Tcherednik S, Tcherednik S, Donetsk (Ukraine)**
The anatomical forms of the open atrioventricular canal
- P122 **Kiryakulov G, Donetsk (Ukraine)**
Anatomical variants of rami branching out a. brachialis
- P123 **Kiryakulova T, Donetsk (Ukraine)**
The interatrial septum in left part heart hypoplasia syndrome

- P124 **Ozturk A, Arican R, Coskun N, Sarikcioglu L, Sindel M, Antalya (Turkey)**
A case with multiple anomalies in the upper limb
- P125 **Boeckers A, Boeckers A, Ulm (Germany)**
The gross anatomy course: an analysis of its importance
- P126 **Schmidt N, Zaharie G, Pop C, Micu C, Damian, Cluj-Napoca (Romania)**
Pulmonary lobar variation, associated with neural tube defects
- P127 **Birkenfeld F, Becker M, Kurz B, Harder S, Kern M, Lucius R, Kiel (Germany)**
Bone morphology after heat application
- P128 **Bamaç B, Çolak T, Ozbek A, Gundogmus U, Kocaeli (Turkey)**
A report of unusual origin of right renal artery
- P129 **Opincariu I, Damian A, Bologa B, Pascu R, Opincariu M, Schmidt A, Cluj-Napoca (Romania)**
CT Colon or virtual colonoscopy.
- P130 **Churnosov M, Sorokina I, Lependina I, Krikun E, Kapustin R, Belogorod (Russia)**
Some results of anthropogenetic researches of the population of Central Russia
- P131 **Dolzchikov A, Tverskoy A, Krikun E, Petrichko S, Belogorod (Russia)**
Pancreatic heterotopia in the papilla of Vater
- P132 **Jianu AM, Motoc A, Ciobanu I, Ilie A, Cergan R, Rusu MC, Timisoara, Bucharest (Romania)**
An anatomical and imagistic study of the sphenoidal sinus
- P133 **Rusu MC, Bucharest (Romania)**
The lateral incisive canals of the adult hard palate – aberrant anatomy of a minor form of clefting?
- P134 **Motoc A, Biris M, Pascut D, Stana L, Jianu A, Folescu R, Raducan S, Timisoara (Romania)**
Therapeutic aspects in recurrent miscarriage
- P135 **Niculescu M, Motoc A, Stana L, Jianu A, Sisu A, Niculescu V, Timisoara (Romania)**
Morphological variability of the origins of branches of celica trunk – anatomical data

- P136 **Niculescu M, Motoc A, Stana L, Sisu A, Jianu A, Niculescu V, Timisoara (Rumania)**
The colon arterial territories
- P137 **Sabau M, Dinulescu D, Maghiar T, Comanescu A, Oradea (Rumania)**
Aneurysmus of the internal carotide artery asymptomatic to a patient with contralateral ischaemic stroke in MCA territory
- P138 **Sabau M, Dinulescu D, Comanescu A, Maghiar T, Oradea (Rumania)**
Hypoparathyroidism diagnosed by neurological signs and expanded intracerebral calcification
- P139 **Pop O, Maghiar T, Dinulescu D, Vilceanu A, Sandor M, Oradea (Rumania)**
Micro-vascular density profile in normal gastric mucosa versus gastric cancer mucosa
- P140 **Stana L, Motoc A, Sisu A, Jianu A, Cebzan C, Ilie A, Hogeia B, Timisoara (Rumania)**
The cystic duct – morphologic variants
- P141 **Raduca S, Hogeia B, Moise M, Jianu A, Stana L, Sisu A, Prejbeanu R, Bermesan D, Motoc A, Timisoara (Rumania)**
The anatomy of distal insertion of the gracilis and the semideninous muscle
- P142 **Hogeia B, Raducan A, Moise M, Jianu A, Stana L, Selaru M, Niculescu M, Motoc A, Timisoara (Rumania)**
Anatomic aspects of the medial part of the knee joint
- P143 **Stana L, Petrescu C, Sisu A, Cebzan C, Niculescu M, Selaru M, Raducan S, Timisoara (Rumania)**
Femoral patellar joint trauma incidence – anatomic clinical aspects
- P144 **Roetschke F, Schwalenberg T, Stolzenburg J, Teichmann G, Loeffler S, Leipzig (Germany)**
Novel landmarks for radical pelvic surgery
- P145 **Sferdian M, Frandes C, Goldis D, Damian G, Stanescu C, Arad (Rumania)**
Pathological modification of the femoral head in avascular necrosis of the femoral head – diagnostic methods
- P146 **Blidaru D, Blidaru M, Damian A, Pop C, Neagos H, Blidaru MA, Cluj-Napoca (Rumania)**
The common bile duct – size, course, relations

Sunday, March 28, 2010

Dissection Hall

Poster Session

14:00 - 17:00

- P147 **Maghiar T, Sabau M, Staciuc O, Dinulescu D, Osiceanu A, Oradea (Romania)**
Major anomaly Willis polygon with clinical implications
- P148 **Vaitkevicius R, Saburkina I, Rysevaite K, Pauziene N, Zaliunas R, Pauza D, Kaunas (Lithuania)**
Morphologic pattern and immunohistochemistry of intrinsic neural plexus of the human pulmonary veins
- P149 **Neagos C, Graur F, Pop C, Blidaru D, Litean O, Nagy C, Bodea F, Cluj-Napoca (Romania)**
Enterocolic volvulus through common mesentery – case report
- P150 **Ochs B, Winkelmann A, Berlin (Germany)**
The os vesalianum – fact or fiction?
- P151 **Matei A, Grigorescu Sido F, Muresan M, Rotar I, Cluj-Napoca (Romania)**
The histology of the optic nerve in cyclopia
- P152 **Glodeanu D, Iliescu D, Cracium A, Bordei P, Constanta (Romania)**
Variability of the morphological types of the renal pelvis
- P153 **Constantin-Barsan N, Chiriloaie C, Surdu L, Bordei P, Constanta (Romania)**
The origin of the celiac trunk in relation with the vertebral column
- P154 **Fatu C, Fatu IC, Iași (Romania)**
The value of screening in early detection of cervical cancer
- P155 **Moscu-Puisoru M, Fatu AM, Vascu B, Iași (Romania)**
The value and limits of Doppler methods in endometrial hyperplasia
- P156 **Wiegrefe C, Jenkins NA, Copeland NG, Britsch S, Ulm (Germany)**
Role of Bcl11a during neocortex development

Sunday, March 28, 2010

Lecture Hall

Business Meeting

17:00 – 19:00

Election of the Board Members of the Anatomische Gesellschaft

Chair: Udo Schumacher

9:00-9:30 62

Inka Brockhausen, Kingston, Ontario (Canada)

Development of glycosyltransferase inhibitors as anti-cancer and anti-adhesive drugs

9:00-9:30 63

Miriam Dwek, London (UK)

GA1Nac recognition by lectins for cancer prognostication

10:00-10:30 64

Peter Prehm, Muenster (Germany)

Hyaluronan export through the plasma membrane by the ABC-transporters MRP5 or CFTR

10:30-11:00 65

Rudolf Tauber, Berlin (Germany)

Structure and functions of human L-Selectin

11:00-11:30

COFFEE BREAK

11:30 66

Krusche C, Holthofe B, Hofe V, van de Sandt A, Merx M, Eschkind L, Kant S, Windoffer R, Leube R, Aachen, Duesseldorf, Mainz (Germany)

Mutation of the desmosomal protein desmoglein 2 induces cardiac alterations that are also found in human arrhythmogenic right ventricular cardiomyopathy

11:45 67

Singer B, Scheffrahn I, Klaile E, Mueller M, Oebrick B, Erguen S, Essen (Germany), Stockholm (Sweden)

Granulocyte-derived soluble CEACAM8 is a potential therapeutic agent with pleiotropic effects triggered by its cell surface interaction with CEACAM1

12:00 68

Spindler V, Endlich A, Waschke J, Wuerzburg (Germany)

The contribution of desmoglein 3 depletion to loss of keratinocyte cohesion in pemphigus vulgaris is dependent on keratinocyte differentiation

Monday, March 29, 2010

Lecture Hall

Topic II

9:00 – 13:00

Cell Biology

13:00 – 16:00

- 12:15** 69 ***Kaminski H, Peters H, Bachmann S, Theilig F, Berlin (Germany)***
Proteinuric activates insulin- and IGF1 R signalling, a mechanism of ENaC-mediated volume retention
- 12:30** 70 ***Schroeder C, Janke S, Richter U, Streichert T, Wirtz R, Milde-Langosch K, Schumacher U, Hamburg, Cologne (Germany)***
Transcription factor Fra-2 and its possible role in invasion and metastasis of breast cancer
- 12:45** 71 ***Diaz-Carballo D, Acikelli A, Banaz-Yasar F, Erguen S, Essen (Germany)***
Acquired resistance to etoposide triggers

13:00-14:00

LUNCH

Chair: Sebastian Bachmann

- 14:00** 72 ***Schicht M, Claassen H, Wagner W, Matthies C, Ackermann P, Schob S, Paulsen F, Brauer L, Halle (Germany)***
Detection of surfactant proteins in human testes and its regulation during different types of testicular cancer
- 14:15** 73 ***Schordan S, Schordan E, Endlich K, Endlich N, Greifswald (Germany)***
AV, B1 and B3 integrins mediate OPN mechano-protection in podocytes
- 14:30** 74 ***Schordan E, Schordan S, Schulz S, Spatz J, Endlich N, Endlich K, Greifswald (Germany)***
Regulation of force transmission by formin-mediated stress fiber elongation at focal adhesion in podocytes
- 14:45** 75 ***Blumenthal A, Endlich N, Endlich K, Giebel J, Greifswald (Germany)***
Expression of tetraspanin CD151 in cultured podocytes

Monday, March 29, 2010

Lecture Hall

Topic II

9:00 – 13:00

Cell Biology

13:00 – 16:00

- | | | |
|--------------|-----------|---|
| 15:00 | 76 | <i>Banaz-Yasar F, Gedik N, Hanilce S, Bongartz B, Schumann G, Erguen S, Essen, Langen (Germany)</i>
Induction of apoptosis and DNA damage via LINE-1-mediated retrotransposition events |
| 15:15 | 77 | <i>Volk C, Gorboulev V, Mueller T, Koepsell H, Wuerzburg (Germany)</i>
Identification of the corticosterone binding site of organic cation transporter 3 |
| 15:30 | 78 | <i>Breuer FT, Hartz C, Pries F, Varoga D, Pufe T, Aachen, Kiel (Germany)</i>
The cell biology of bone marrow stimulating surgery in osteoarthritis |
| 15:45 | 79 | <i>Gliem M, Heupel W, Huebner S, Waschke J, Wuerzburg (Germany)</i>
Role of cytokeratin retraction and actin reorganization in pemphigus acantholysis |
| 16:00 | 80 | <i>Oehlke O, Osterberg N, Roussa E, Freiburg (Germany)</i>
Rab11b regulates trafficking of V-ATPase in salivary ducts during acid-base disturbances |
| 16:15 | | <i>Closing Session and poster awards (Lecture Hall)</i> |

Chair: Cordian Beyer

- 10:00** 81 **Reissner C, Klose M, Stahn J, Missler M, Muenster (Germany)**
Interplay at the synaptic cleft – neurexins binding to neuroligins, dystroglycans and neurexophilins
- 10:15** 82 **Maronde E, Boulaaouin S, Frankfurt (Germany)**
Regulation of the expression of the clock gene Bmal1 in the HT22 hippocampal cell line
- 10:30** 83 **Hausott B, Vallant N, Rietzler A, Schlick B, Klimaschewski L, Innsbruck (Austria)**
Modification of fibroblast growth factor receptor 1 trafficking induces changes in axon growth
- 10:45** 84 **Koch M, Kreutz S, Boettger C, Grabiec U, Ghadban C, Korf H, Dehghani F, Leipzig, Frankfurt (Germany)**
The neuroprotective efficacy of the cannabinoid WIN 44, 212-12 is determined by a novel cross-talk between cannabinoid 1 receptor, transient receptor potential (TRP) AL and N-type voltage-gated CA2+ channels

11:00-11:30

COFFEE BREAK

Chair: Thomas Deller

- 11:30** 85 **Zhao S, Chai X, Bouche E, Bock H, Frotscher M, Freiburg (Germany)**
Reelin as an attractive signal for cortical neurons
- 11:45** 86 **Brunne B, Zhao S, Herz J, Frotscher M, Bock H, Freiburg (Germany)**
Maturation and differentiation of secondary radial glial cells in the reeler dentate gyrus
- 12:00** 87 **Krueger M, Zhao S, Chai X, Brunne B, Bouché E, Bock H, Frotscher M, Freiburg (Germany)**
Assembly of sympathetic preganglionic neurons in the intermediolateral column is controlled by reelin-induced cofilin phosphorylation
- 12:15** 88 **Arnold S, Beyer C, Aachen (Germany)**
Mitochondrial dynamics and its role in neurodegeneration and protection

- 12:30** 89 ***Beyer C, Dang J, Kipp M, Aachen (Germany)***
Steroid hormones are neuroprotective in an experimental brain ischemic model
- 12:45** 90 ***Von Gall C, Pfeffer M, Markova Z, Gisbert S, Korf H, Frankfurt (Germany)***
Transgenic mice expressing mutant A53T human alpha-synuclein show disturbed sleep/wake rhythms and reduced homer 1BC immunoreaction in the suprachiasmatic nucleus

13:00-14:00

LUNCH

Chair: Suleyman Erguen

- 14:05** 91 ***Brunk I, Sanchis-Segura C, Blex C, Perreau-Lenz S, Bilbao A, Birnbaumer L, Spanagel R, Ahnert-Hilgert G, Berlin (Germany), Castello (Spain), North Carolina (USA)***
Motor activity impairment of Go2alpha deletion mutants is overcome by repeated amphetamine treatment
- 14:15** 92 ***Rosen C, Tohidnezhad M, Brandenburg L, Fragoulis A, Pufe T, Wruck C, Aachen (Germany)***
Role of nuclear factor erythroid 2-related factor 2 (NRF2) in the pathogenesis of amyotrophic lateral sclerosis (ALS)
- 14:30** 93 ***Kipp M, Neumann H, Linnartz B, Beyer C, Aachen (Germany)***
Chemokine expression during early demyelination
- 14:45** 94 ***Gingele S, Pott F, Denecke B, Gan L, Beyer C, Kipp M, Aachen (Germany)***
Analysis of remyelination failure in an experimental multiple sclerosis model

Neuroanatomy**10:00 – 16:00**

- 15:00** 95 ***Wedel T, Zorenkov D, Klaus N, Egberts J, Roblick U, Bruch H, Boettner M, Kiel, Cologne (Germany)***
Guidelines for histopathological work-up, evaluation and diagnostics of human enteric neuropathies
- 15:15** 96 ***Fuchshofer R, Kressel S, Junglas B, Koestler J, Wagner R, Boesl M, Tamm E, Regensburg, Munich (Germany)***
CTGF is a key modulator of the actin cytoskeleton in trabecular meshwork cells and intraocular pressure in the mouse eye
- 15:30** 97 ***Becker J, Volland S, Wilting J, Goettingen (Germany)***
Effects of stannicalcin 2 on vessel formation in human neuroblastoma
- 15:45** 98 ***Hawlitschka A, Schmitt O, Anatipova V, Benecke R, Wree A, Rostock (Germany)***
Longterm investigation of morphological changes in the rat brain after botulinum toxin A application
- 16:15** ***Closing Session and poster awards (Lecture Hall)***

08.30 *Begrüßung durch den Vorstand der Anatomischen Gesellschaft, die Zahnärztekammer Hamburg und die Organisatoren des Symposiums*

Augmentative und regenerative Technologien

09.00 *Fanghänel J, Greifswald/Regensburg*
Bone – Ein Gewebe verstehen

09.30 *Heinemann F, Morsbach*
Oral implants – Neue Materialien und neue Techniken

09.45 *Biffar R, Greifswald*
Prosthodontics – Zeitgemäße Therapiekonzepte in der Implantatprothetik

10.15 *Gedrange T, Greifswald*
Orthodontics - Implantate sorgen für Bewegung

10.30 – 11.00 *Pause/Ausstellung*

Orale Implantologie

11.00

Korf, H-W, Frankfurt/Main

Zur Gefäß- und Nervenversorgung von Unter- und Oberkiefer

11.30

Sümnig W, Greifswald

Vom “unanatomischen” Blattimplantat zum navigierten Operieren – ein historischer Überblick

12.00

Gruber R, Ludwig A, Merten H-A, Schliephake H, Göttingen

Sinusboden-Augmentation mit beta TC und rh GDF-5 im Minipig

12.25

Keese E, Braunschweig

Regenerative Implantologie in der klinischen Praxis

12.50

Canullo L, Rom

Implant restoration in very resorbed maxillae

13.15

Endress E, Baden-Baden

Neue augmentative Verfahren für die Kieferchirurgie

13.30 – 15.00

Pause/Ausstellung

Implantate und Augmentatverfahren in der Orthopädie/übergreifende Themen

15.00

Kubein-Meesenburg D, Fanghänel J, Göttingen, Greifswald/Regensburg

Funktionszustand der Mandibula-Synovialpumpe des Kiefergelenks – ist der biomechanische korrekte Ersatz möglich?

15.30

Stratmann U, Münster

Die Biomechanik des Kondylus bei Stützzonenverlust im atrophierten Kiefer

- 16.00** **Götz W, Bonn**
Angiogenese und Osteogenese bei der Einheilung von
Knochenersatzmaterial
- 16.30** **Behrens P, Hamburg**
Innovative Knorpelregeneration mit AMIC
- 17.00** **Meyer G, Greifswald**
Kaufunktionelle morphologische Grundlagen der Implantation
- 17.30** **Behr M., Proff P., Regensburg**
Bruxismus – nur eine Frage der Okklusion?
- 18.00** **Abschlussdiskussion**

Alphabetical List of First Authors of Lectures and Posters:

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**President of the Anatomische Gesellschaft
President of the 105th Annual Meeting**

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Martinistr. 52, D-20246 Hamburg

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All members of the Institute of Anatomy

Local Scientific Organization:

Prof. Dr. Gabriele M. Rune

In cooperation with the Board of the

“Anatomische Gesellschaft”

Correspondence and Meeting Secretaries:

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Congress Venue and Lecture Halls

University Medical Center Hamburg-Eppendorf

Institute of Anatomy, Building N61

Martinistr. 52, D-20246 Hamburg

Meeting Office – Registration Desk

Atrium Lecture Hall, Institute of Anatomy, Building N61
University Medical Center Hamburg-Eppendorf
D-20246 Hamburg

Friday, March 26	12.00 – 20:00
Saturday, March 27	8.00 – 18:00
Sunday, March 28	8.00 – 18.00
Monday, March 29	8.00 – 16:00

Registration Fees

Members of the Anatomische Gesellschaft	€ 120
Non-members	€ 160
Accompanying persons	€ 40
Students	€ 40

Oral Presentation

The official congress language is English. All presentations and talks should therefore be held in English. We would ask all participants to keep to the designated time. Audio visual equipment (Windows PC with CD-ROM drive/USB-port and video beamer) is installed in the lecture hall. Presentation software is Windows Power Point. Speakers are asked to hand in their presentations to the attendant in advance. Please do not bring your own notebook/laptop.

Abstracts

Abstracts of all submitted contributions will be published online on the homepage of the Anatomische Gesellschaft (www.anatomische-gesellschaft.de) as pdf-files.

Poster Sessions

Posters will be presented in the Dissection Hall. Thumbtacks for poster mounting will be available from the poster assistant. Please mount your posters in the morning of the respective poster session and remove them immediately thereafter.

Maximum Poster Size is A0 (90 x 130 cm portrait format – not landscape)

The poster committee will judge the quality of the posters for the poster prizes at the time of the author's presence.

Poster Prize

The Anatomische Gesellschaft awards four posters during the 105th Annual Meeting of the Anatomische Gesellschaft in Hamburg 2010. Three poster awards are kindly sponsored by ELSEVIER and one by Medis Weber.

Industrial exhibition

The exhibition is located in the Atrium of the Lecture Hall and will be open throughout the meeting.

Coffee Breaks and Lunch

Coffee breaks and lunch will be offered at the Institute of Anatomy

How to reach the University Medical Center Hamburg-Eppendorf:

By train and bus (Bus routes 20 and 25 stop directly in front of the University Medical Center):

From Hamburg main station:

Underground line U1 in the direction of Garstedt/Norderstedt, to Kellinghusenstrasse, then bus No. 25 to the UKE

From Hamburg Dammtor:

Bus No. 5 in the direction of Lokstedt, to Gärtnerstrasse, then bus No. 20 or No. 25 to the UKE

From Hamburg Altona:

Bus No. 20 or No.25 to the UKE

By suburban Train (S-Bahn):

Take line S1 or S3 to Altona train station, then bus No. 20 or No. 25 to the UKE

Take line S21 or S31 to Holstenstrasse, then bus No. 20 or No.25 to the UKE

By Subway (U-Bahn):

Line U1 to Hudtwalckerstrasse, then bus No. 20 or No. 25 to the UKE, or line U3 to Kellinghusenstrasse and from there bus No. 25 (in the direction of Altona Bahnhof) to the UKE

By air:

From Hamburg Airport Fuhlsbüttel

The drive to the UKE is about 15 minutes by taxi. Cost: 12-14 €

By (hire-) car from the airport:

- turn right after 345 m onto the Langenhorner Chaussee
- after 620m (after about 2 min.) continue along the Alsterkrugchaussee
- after 5,41km (after about 8 min.) turn right into Martinistrasse
- after 414m (about 1 min.) you will see the University Medical Center on the right-hand side

By car:

Via the autobahn A7, exit at Stellingen and drive in to Hamburg, Eppendorf

Via the main roads B433, B434, B447, B5 in the direction of the center of Hamburg, then continue to Hamburg, Eppendorf

How to reach the Department of Anatomy,

Institute of Anatomy – Building N61: please see accompanying map

Welcome Reception and Get-Together

18:00 Friday, 26th March
Lecture Hall and entrance area

Reception im Erikahaus

19:00 Saturday, 27th March
Invitation from Herrn Professor Dr. med. A. Holstein

Congress Dinner - Sunday, March 28, 2010

Nord Event - Speicherstadt Hamburg Harbour.
Meeting Point: Main entrance to the Lecture Hall
Departure: 19.30 p.m.
Fee: 55,00 €

Sightseeing Tours:

Tour 1:

Trip round the harbour (ca. 1 1/2 hours)
Saturday or Sunday at 13:00
Meeting point: St Pauli Landungsbrücken – Brücke 3
12,50 €

Tour 2:

Walk round the "Speicherstadt" – Hamburg's old
warehouse district and the new harbour city
Sunday 14:00
Meeting point: Deichstrasse/Steintwiete
9.00 €

Tour 3:

Ballinstadt tour (Harbour and Emigration Museum) ca. 2 ¼
hours)
Sunday 11:15
Meeting point: Tourist information Landungsbruecken
25.00 € (including entrance and transfer by boat)

**Visit to the Tropical Aquarium at Hagenbeck's Tierpark
(Hamburg's privately owned zoo)**

Monday, 29th March 11:00

11.50 € (group ticket)

**Visit to the State Opera performance of the Hamburg Ballet
Daphnis and Chloe/Nachmittag eines Fauns/**

Sacre du Printemps (Ravel, Debussy, Strawinsky)

Saturday, 27th March 19:30

47.00 €

(Tickets must be ordered at the secretaries' office
prior to arrival)

B U S I N E S S M E E T I N G

**General Assembly
(Mitgliederversammlung)**

**Election of the Board Members of the
Anatomische Gesellschaft**

**Sunday, March 28, 2010, 17:00 - 19:00
(Anatomy Lecture Hall)**

Industrial Exhibitors

Keyence Deutschland GmbH, Siemensstraße 1
D-63263 Neu-Isenberg

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D-65824 Schwalbach/Ts

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D-96450 Coburg

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D-97078 Würzburg

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D-20253 Hamburg

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John Wiley and Sons Ltd, The Atrium, Southern Gate
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D-45335 Essen

Schattauer GmbH, Verlag für Medizin und Naturwissenschaften,
Hölderlinstraße 3, D-70174 Stuttgart



105. Versammlung der Anatomischen Gesellschaft (Overview)

		Lecture Hall	Microscopy Hall	Dissection Hall	Socials
Friday 26th March 2010	13:00 - 17:00 18:00	Opening ceremony	Workshop: "New techniques in microscopy"		20:00 Get together
Saturday 27th March 2010	9:00 - 11:00 11:30 - 13:00 14:00 - 17:00 17:00 - 19:00	Topic I Topic I Topic I	Gross Anatomy / Exp. Morphology Reproduction / Embryology	Postersession I	13:00 Tour of the harbour 19:00 Opera 19:00 Reception „Erika-Haus“
Sunday 28th March 2010	9:00 - 11:00 11:30 - 13:00 14:00 - 16:30 17:00 - 19:00	Topic I Topic I Business meeting (Election of the Board)	Immunology Cell Biology	Postersession II	11:15 Ballinstadt 14:00 Speicherstadt/ Hafencity 20:00 Congress Dinner
Monday 29th March 2010	9:00 - 11:00 11:30 - 13:00 14:00 - 17:00	Topic II Topic II Cell Biology	} Neuroanatomy		11:00 Hagenbeck's Tierpark; Tropical Aquarium



Universitätsklinikum
Hamburg-Eppendorf

Institute of Anatomy

Anatomy

Institute of
(N61)





By Car

Via the autobahn A7, exit Stellingen, in the direction of Eppendorf
Via the main roads B433, B434, B447, B5 in the direction of the city center, then continue to Hamburg Eppendorf



Public transport:

Buses No. 20 + 25 stop at the main entrance of the UKE

By train:

From Hamburg main station:
Underground U1 in the direction of Norderstedt, as far as Kellinghusenstrasse, then bus No. 25 to the UKE
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No. 5 bus in the direction of Lokstedt, as far as Gärtnerstrasse, then bus No. 20 or No. 25 to the UKE
From Hamburg Altona:
No. 20 or No. 25 bus to the UKE

By suburban train (S-Bahn):

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By subway (U-Bahn):

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By air:

From Hamburg Airport Fuhlsbüttel:
The drive to the UKE is about 15 minutes by taxi and costs 12-14 €

