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I AM UNIQUE

SHOULDN'T MY BoNT THERAPY BE UNIQUE TOO?
Birte, 48, Spasticity patient

Xeomin®, 50 units or 100 units, powder for solution for injection. Active substance: Clostridium Botulinum neurotoxin type A (150 kD), purified from Clostridium Botulinum cultures (Hall strain), free from complexing proteins. Prescription-only medicinal! Qualitative and quantitative composition: One vial contains: 50 LD₅₀ units or 100 LD₅₀ units of Clostridium Botulinum neurotoxin type A (150 kD), free from complexing proteins, human albumin, sucrose. Due to the differences in the potency assays, unit doses are specific to Xeomin®. Therefore the recommended dose units for Xeomin® are not interchangeable with those for other Botulinum toxin preparations. Therapeutic indications: For the symptomatic treatment of blepharospasm, cervical dystonia of a predominantly rotatory form (spasmodic torticollis), and of post-stroke spasticity of the upper limb presenting with flexed wrist and clenched fist in adults. Contraindications: Hypersensitivity to Botulinum neurotoxin type A or to any of the excipients, generalised disorders of muscle activity (e.g. myasthenia gravis, Lambert-Eaton syndrome), infection or inflammation at the proposed injection site, Xeomin® must not be used during pregnancy unless clearly necessary. Do not use during breast-feeding. Undesirable effects: Undesirable effects usually occur within the first week following injection and are temporary in nature. They may be related to the active substance, the injection procedure, or both. Indication-independent: Localised pain, inflammation, paraesthesia, hypoesthesia, tenderness, swelling/oedema, erythema, itching, localised infection, haematoma, bleeding and/or bruising. Application-related: Pain and/or anxiety may lead to vasovagal reactions such as transient symmetrical hypotension and syncope. Toxin spread: Undesirable effects related to spread of toxin distant from the site of administration have been reported very rarely such as exaggerated muscle weakness, dysphagia, and aspiration pneumonitis with fatal outcome in some cases. Hypersensitivity reactions: Rare reports of serious and/or immediate hypersensitivity reactions such as anaphylaxis, serum sickness, urticaria, soft tissue oedema, and dyspnoea, sometimes either following the administration of conventional Botulinum toxin type A complex preparations alone or in combination with other active substances known to cause similar reactions. Spasmodic torticollis: Dysphagia of varying degrees of severity may cause aspiration which may require medical intervention. Duration: 2-3 weeks post-injection, in one case up to 5 months. The following undesirable effects were observed with the clinical use of Xeomin®: Very common (≥1/10): common (≥1/100 to <1/10); uncommon (≥1/1,000 to <1/100): Blepharospasm: Very common: Eyelid prosthesis, dry eyes, common: Headache, facial paresis, vision blurred, visual impairment, dysphagia, lacrimation increased, dry mouth, dysphagia, rash, injection site pain, fatigue, muscular weakness. Spasmodic torticollis: Very common: Dysphagia; Common: Headache, pre-syncpe, dizziness, dry mouth, nausea, hyperhidrosis, neck pain, muscular weakness, muscle spasm, musculoskeletal stiffness, myalgia, injection site pain, asthena, upper respiratory tract infection; Uncommon: Speech disorder, dysphonia, dyspnoea, rash, Post-stroke spasticity of the upper limb: Common: Headache, dysesthesia, hypoesthesia, dysphagia, muscular weakness, pain in extremity, feeling hot, injection site pain; Uncommon: Myalgia, asthena. Some of these undesirable effects may be disease related. Post-marketing experience: Flu-like symptoms and hypersensitivity reactions such as swelling, oedema (also apart from the injection site), erythema, pruritus, rash (local and generalised), and breathlessness have been reported. Merz Pharmaceuticals GmbH, 6048 Frankfurt/Main, Germany, Date of revision of the text: August 2015. Further information is provided in the Summary of Product Characteristics and the Package Leaflet. PLEASE CHECK YOUR LOCAL APPROVAL STATUS
DEAR COLLEAGUES AND FRIENDS,

We warmly welcome you to the 9th International Symposium on Neuroprotection and Neurorepair (ISN&N) in Leipzig! We are looking forward to 4 exciting days of outstanding talks and posters, intensive scientific discussions, and fruitful exchange of novel ideas together with you.

Leipzig is one of the most vibrant and fastest-growing cities in Germany, often compared to Berlin, Paris and other major metropolises. It has a rich and long history of scientific discoveries in neuroscience, which continue into the present days. We also were lucky to hold our meeting in one of the most beautiful locations Leipzig has to offer: its world-famous zoo.

The meeting itself will be at least as exciting as the location in which it takes place. The number of attendees was steadily increasing over the last years and peaked at over 450 this year. Hence, the 9th ISN&N is the largest in the meeting’s history. The size of the 2016 meeting and the fact that we have received so many suggestions for excellent talks triggered our decision to leave traditional paves, allow parallel sessions on two of our four meeting days.

Despite these changes, we are proud that our meeting continuously stands for lively interactions, fruitful discussions and exchange of ideas between young researchers and senior experts. This would not be possible without your contributions and support, so thank you very much for being a part of our meeting.

Finally, we want to thank all ISN&N organizers and sponsors. The meeting would not have been possible without your outstanding support!

Sincerely yours,

Johannes Boltze
GENERAL INFORMATION

CONFERENCE COORDINATOR
Fraunhofer Research Institution for Marine Biotechnology
Johannes Boltze, MD, PhD
Mönkhofer Weg 239a, 23562 Lübeck

CONFERENCE OFFICE
event lab. GmbH
Dufourstr. 15, 04107 Leipzig
Phone: +49 (0)162 433 20 83

CONFERENCE DATES | OPENING HOURS REGISTRATION DESK
Tuesday, April 19, 2016 11:00 am – 08:00 pm
Wednesday, April 20, 2016 07:30 am – 07:00 pm
Thursday, April 21, 2016 07:30 am – 06:00 pm
Friday, April 22, 2016 08:30 am – 01:30 pm

SPEAKER’S PREVIEW
The speaker’s preview room will be open at all times during the conference. Please come to the speaker’s preview room as soon as possible and no later than 2 hours before your session starts. Presentations will be delivered to the lecture hall.

LANGUAGE
The official language of the symposium is English. There will be no translations.

PARTICIPATION | NAME TAGS
Official conference name tags will be required for admission to all conference functions, scientific sessions and exhibition areas. Participants who lose their name tags will have to pay a fee of 25.00 EUR to obtain a replacement tag.

CERTIFICATION
The Medical Association of Saxony certified the meeting with 18 continuing education points. Certificates will be issued at the registration desk.

INTERNET
You can obtain free access to the local WiFi with the following access code:
SSID: NEURO; username: neuro2016; password: neuro2016

EXHIBITION INFORMATION
The exhibition will be located in the hall “Großer Saal”. The exhibition will be open as follows:

Tuesday, April 19, 2016 12:00 pm – 10:00 pm
Wednesday, April 20, 2016 07:30 am – 05:00 pm
Thursday, April 21, 2016 07:30 am – 04:30 pm

POSTER SESSIONS
Poster session I – 1, I – 2, I – 3, I – 4, I – 5  Wednesday, April 20, 2016 01:00 pm – 02:30 pm
Poster session II – 1, II – 2, II – 3, II – 4, II – 5  Thursday, April 21, 2016 01:00 pm – 02:30 pm

The poster exhibition will be located in the hall “Großer Saal”. Poster presenters are requested to be present at their posters at least during the respective guided poster session. You will have about 1.5 to 2 minutes to present your poster to all interested participants.

Mounting and dismounting of posters
The poster boards will be marked with numbers referring to those in the program. Materials for poster mounting will be provided. Please follow the following schedule of the poster mounting and dismounting:

Poster session I on Wednesday April 20, 2016
Mounting time: Tuesday, April 19 after your registration
Dismounting time: Wednesday, April 20 at latest until 6:30 pm

Poster session II on Thursday April 21, 2016
Mounting time: Thursday, April 21 at latest until 10:00 am
Dismounting time: Thursday, April 21 at latest until 06:00 pm

Poster that haven’t been removed until then will be removed by the staff. Please note that we cannot accept responsibility for lost material.
Claudia Alia (Italy)
Abstract „Reducing GABAergic inhibition improves forelimb motor function after focal cortical stroke in mice“

TaeHee Kim (USA)
Abstract „Role of α-Synuclein in ischemic brain damage“

Jordi Pedragosa Ollé (Spain)
Abstract „Perivascular macrophages attract leukocytes to the ischemic brain tissue“

Suresh Mehta (USA)
Abstract „Long noncoding RNA FosDT promotes ischemic brain injury by interacting with REST-associated chromatin modifying proteins“

We are pleased to express our congratulations.
PROGRAM OVERVIEW

TUESDAY, APRIL 19

8:00 am Novel approaches to enhance post-stroke functional outcome

8:30 am Neuroprotection 1: neurobiochemical mechanisms

9:00 am Understanding and controlling neuroimmunology

9:45 am Coffee break in the exhibition area

10:00 am New connections: neurorehabilitation and human brain plasticity

10:30 am Pressure, penumbra and promising acute stroke therapies

11:00 am Immunity in post-stroke neuronal damage and repair: the jury is still out

12:00 pm Lunch break in the exhibition area

12:30 pm Opening ceremony

1:00 pm Poster viewing

1:30 pm Roots and routes for stroke recovery

2:00 pm Proteases before, during and after stroke

2:30 pm Role of non-coding RNAs in neuroprotection and plasticity after stroke

3:00 pm Coffee break in the exhibition area

3:30 pm Improving stroke care: imaging and novel diagnostics

4:00 pm Selective cerebral hypothermia in stroke

4:30 pm Coffee break exhibition area

5:00 pm Hot news

5:30 pm Get together in the exhibition area free poster viewing

8:00 pm Meet the chief editor: How to publish in high ranking journals?

WEDNESDAY, APRIL 20

8:00 am Novel approaches to enhance post-stroke functional outcome

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4:00 pm Selective cerebral hypothermia in stroke

4:30 pm Coffee break exhibition area

5:00 pm Hot news

5:30 pm Get together in the exhibition area free poster viewing

THURSDAY, APRIL 21

8:00 am Neural vasculature and neural network pathology

8:30 am Clinical translation: from bench to bedside and back

9:00 am Neuroprotection 2: new and re-newed approaches

9:45 am Coffee break in the exhibition area

10:00 am The haunted hedge: the role of glial cells in injury and repair

10:30 am Pharmacology of stroke recovery

11:00 am Thromboinflammation in stroke and other brain diseases

11:30 am Lunch break in the exhibition area

12:00 pm Luncheon Asiogenesis

12:30 pm Human induced pluripotent stem cells (iPSC) derived neurons: a novel approach for neuroscience research and drug discovery

1:00 pm Poster viewing

1:30 pm Buffet will be served.

2:00 pm White matter mechanisms in CNS injury and disease

2:30 pm Imaging tools to advance the understanding of neuroinflammation

3:00 pm The role of blood in brain injury

3:30 pm Coffee break in the exhibition area

4:00 pm Non-invasive neuromodulation for CNS diseases

4:30 pm The spleen as a novel target for new stroke therapies

5:00 pm Modelling vascular contributions to cognitive impairment and dementia with Alzheimer’s disease

5:30 pm Coffee break in the exhibition area

6:00 pm Gondwanaland tour and congress dinner

FRIDAY, APRIL 22

8:00 am Pathophysiology of vascular cognitive impairment

8:30 am Coffee break

9:00 am Neuroprotection 3: non-cell autonomous mechanisms

9:45 am Lunch break in the exhibition area

10:00 am Luncheon Asiogenesis

10:30 am Human induced pluripotent stem cells (iPSC) derived neurons: a novel approach for neuroscience research and drug discovery

11:00 am Poster viewing

11:30 am Closing ceremony

12:00 pm Meeting the chief editor: How to publish in high ranking journals?

12:30 pm Gondwanaland tour and congress dinner

Gondwanaland
Leipziger Zoo
<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Speakers</th>
<th>Topic</th>
</tr>
</thead>
<tbody>
<tr>
<td>12:00 – 12:10 PM</td>
<td>OPENING REMARKS</td>
<td>Boltze J. (Lübeck, Germany)</td>
<td>Opening remarks</td>
</tr>
<tr>
<td>12:10 – 12:30 PM</td>
<td>NEUROPROTECTION AND NEUROREPAIR AT LEIPZIG</td>
<td>Claßen J. (Leipzig, Germany)</td>
<td>Neuroprotection and Neurorepair at Leipzig</td>
</tr>
<tr>
<td>12:30 – 1:30 PM</td>
<td>PRESIDENTIAL OPENING LECTURE</td>
<td>Kroemer G. (Paris, France)</td>
<td>Therapeutic autophagy induction: from theory to clinical application</td>
</tr>
<tr>
<td>1:30 – 3:00 PM</td>
<td>TRANSLATIONAL STORIES: FROM BENCH TO BESIDE – AND BACK</td>
<td>Dirnagl U. (Berlin, Germany)</td>
<td>In the field of translation, chance favors the prepared mind</td>
</tr>
<tr>
<td>2:00 – 2:20 PM</td>
<td></td>
<td>Ayata C. (Boston, USA)</td>
<td>Intracranial pressure and spreading injury depolarizations</td>
</tr>
<tr>
<td>2:20 – 2:40 PM</td>
<td></td>
<td>Schäbitz W.-R. (Bielefeld, Germany)</td>
<td>Targets to translation</td>
</tr>
<tr>
<td>2:40 – 3:00 PM</td>
<td></td>
<td>De Simoni M. G. (Milan, Italy)</td>
<td>The lectin complement pathway as a therapeutic target in ischemic brain conditions: experimental and clinical evidence</td>
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<tr>
<td>3:00 – 3:30 PM</td>
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<td>Coffee break, industrial exhibition</td>
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<tr>
<td>3:30 – 5:00 PM</td>
<td>IMPROVING STROKE CARE: IMAGING AND NOVEL DIAGNOSTICS</td>
<td>Dijkhuizen R., Farr T.</td>
<td>Dijkhuizen R., Farr T.</td>
</tr>
<tr>
<td>3:30 – 4:00 PM</td>
<td></td>
<td>Baron J.-C. (Cambridge, UK)</td>
<td>Recent developments in experimental and clinical stroke imaging</td>
</tr>
<tr>
<td>4:00 – 4:20 PM</td>
<td></td>
<td>Oliveira S. (Coimbra, Portugal)</td>
<td>Carbon monoxide as a metabolic and brain-blood barrier modulator with protective effects following stroke – a MRI and behavioural study</td>
</tr>
<tr>
<td>4:20 – 4:40 PM</td>
<td></td>
<td>Modo M. (Pittsburgh, USA)</td>
<td>Image-guided delivery and monitoring of in situ tissue engineering in stroke</td>
</tr>
<tr>
<td>4:40 – 5:00 PM</td>
<td></td>
<td>Hoehn M. (Cologne, Germany)</td>
<td>Structural and functional connectivity networks: dynamic changes after stroke</td>
</tr>
<tr>
<td>5:00 – 6:00 PM</td>
<td>SELECTIVE CEREBRAL HYPOTHERMIA IN STROKE</td>
<td>Fritz H. (Halle/Saale, Germany)</td>
<td>Therapeutic hypothermia in acute ischemic stroke – an upcoming approach for clinical use</td>
</tr>
<tr>
<td>5:00 – 5:20 PM</td>
<td></td>
<td>Cattaneo G. (Pforzheim, Germany)</td>
<td>A new approach for selective cerebral hypothermia</td>
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<tr>
<td>5:20 – 5:40 PM</td>
<td></td>
<td>Meckel S. (Freiburg, Germany)</td>
<td>In-vivo experience with a novel endovascular cooling catheter system for selective cerebral hypothermia</td>
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<tr>
<td>5:40 – 6:00 PM</td>
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<td>Coffee break; industrial exhibition</td>
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<tr>
<td>6:00 – 6:30 PM</td>
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<tr>
<td>6:00 – 6:30 PM</td>
<td>HOT NEWS</td>
<td>Schwaninger M. (Lübeck, Germany)</td>
<td>NF-κB protects the blood-brain barrier</td>
</tr>
<tr>
<td>6:30 – 6:50 PM</td>
<td></td>
<td>Bix G. (Lexington, USA)</td>
<td>Interleukin-1 alpha is profoundly neuroprotective in experimental ischemic stroke</td>
</tr>
<tr>
<td>6:50 – 7:10 PM</td>
<td></td>
<td>Lemere C. (Boston, USA)</td>
<td>Pyroglutamate-3 amyloid-β immunotherapy for Alzheimer’s disease</td>
</tr>
<tr>
<td>7:10 – 7:30 PM</td>
<td></td>
<td>Aronowski J. (Houston, USA)</td>
<td>Cytoprotection, cleanup and recovery after ischemic stroke is modulated by neuronal IL-4 and PPARy</td>
</tr>
<tr>
<td>8:00 – 10:30 PM</td>
<td>GET TOGETHER IN THE EXHIBITION AREA</td>
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**5:00 – 6:00 PM SELECTIVE CEREBRAL HYPOTHERMIA IN STROKE**

**5:00 – 5:20 PM**
Fritz H. (Halle/Saale, Germany)
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Cytoprotection, cleanup and recovery after ischemic stroke is modulated by neuronal IL-4 and PPARy
WEDNESDAY, APRIL 20, 2016

**“Weißer Saal”**

8:00 – 9:45 AM  **NOVEL APPROACHES TO ENHANCE POST-STROKE FUNCTIONAL OUTCOME**

**Chairs: Abe K., Boltze J.**

8:00 – 8:15 AM  Alia C. (Pisa, Italy)
Reduction of GABAergic inhibition improves forelimb motor function after focal cortical stroke in mice

8:15 – 8:30 AM  Abe K. (Okayama, Japan)
Neuroprotective therapy both for acute ischemic stroke and ALS

8:30 – 8:45 AM  Lietzau G. (Stockholm, Sweden)
Type 2 diabetes-induced neuronal pathology in the piriform cortex of the rat is reversed by the glucagon-like peptide-1 receptor agonist exendin-4

8:45 – 9:00 AM  Borlongan, Cesar (Tampa, USA)
Intravenously delivered IL2-targeted one marrow stem cell-derived exosomes, but not NCAM-Directed exosomes, home to the spleen, dampen inflammation, and ameliorate stroke-induced functional deficits

9:00 – 9:15 AM  Blondeau N. (Paris, France)
Alpha-Linolenic Acid nutritional intervention to support post-stroke functional recovery: the ultimate step preparing the ground for clinical trials?

9:15 – 9:30 AM  Sobey C. (Clayton, USA)
Acute or delayed systemic administration of human amnion epithelial cells improves outcome after stroke

9:30 – 9:45 AM  Popa-Wagner A. (Rostock, Germany)
Is the aged brain microenvironment refractory to cell therapy?

**“Händel-Saal”**

8:00 – 9:45 AM  **NEUROPROTECTION 1: NEUROBIOCHEMICAL MECHANISMS**

**Chairs: Harms C., Reiser G.**

8:00 – 8:15 AM  Mehta S. (Madison, USA)
Long noncoding RNA FosDT promotes ischemic brain injury by interacting with REST-associated chromatin modifying proteins

8:15 – 8:30 AM  Laettig G. (Berlin, Germany)
RNA-interference against sentrin-specific isopeptidase7 (SENP7) enhances SUMOylation at proteins of the pericentric heterochromatin and leads to transcriptional silencing in primary cortical neurons

8:30 – 8:45 AM  Edwards D. (Lexington, USA)
Acute inhibition of α5β1 integrin after stroke is neuroprotective and functional restorative via stabilization of the blood-brain barrier

8:45 – 9:00 AM  Paschen W. (Durham, USA)
Role of ER Stress-Induced unfolded protein response branches and downstream pathways in the fate and function of post-ischemic neurons in stroke

9:00 – 9:15 AM  Lie M. E. K. (Copenhagen, Denmark)
Substrates of the GABA transporters GAT3 and BGT1 improve functional recovery after focal ischemic stroke

9:15 – 9:30 AM  Balaganapathy P. (Singapore, Singapore)
Interplay between activated notch receptor and P53 in neuronal cell death during cerebral ischemia

9:30 – 9:45 AM  Moszczynska A. (Detroit, USA)
Knockout of Park2 gene alters dopamine and phenylethylamine signaling in the rat striatum: the insight into the role of E3 Ligase parkin in neuroprotection

**“Telemann-Saal”**

8:00 – 9:45 AM  **UNDERSTANDING AND CONTROLLING NEUROIMMUNOLOGY**

**Chairs: Liesz A., Lambertsen K.**

8:00 – 8:15 AM  Schroeter M. (Cologne, Germany)
Osteopontin treatment is beneficial after permanent cerebral ischemia by separating M1 and M2 polarized microglial activation

8:15 – 8:30 AM  Vogelgesang A. (Greifswald, Germany)
Considering age for treg function post stroke in man and mice

8:30 – 8:45 AM  Ortega S. B. (Dallas, USA)
B-cells directly mediate neuronal viability and functional recovery following stroke

8:45 – 9:00 AM  Sadler R. (Munich, Germany)
Minimal microbiota differences between commercial breeders impacts post-stroke immunity

9:00 – 9:15 AM  Benakis C. (New York, USA)
Commensal microbiota affect ischemic stroke outcome by regulating intestinal immune cells

9:15 – 9:30 AM  Andjus P. (Belgrade, Serbia and Montenegro)
Brain oxidative status in the rat model of amyotrophic lateral sclerosis – in search of causes and consequences

9:30 – 9:45 AM  Pedragosa Ollé J. (Barcelona, Spain)
Perivascular macrophages attract leukocytes to the ischemic brain tissue

9:45 – 10:30 AM  Coffee break, industrial exhibition
### NEW CONNECTIONS: NEUROREHABILITATION AND HUMAN BRAIN PLASTICITY

**“Weißer Saal”**

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Chair(s)</th>
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</thead>
<tbody>
<tr>
<td>10:30 AM</td>
<td><strong>NEW CONNECTIONS: NEUROREHABILITATION AND HUMAN BRAIN PLASTICITY</strong></td>
<td></td>
</tr>
<tr>
<td>10:30 – 11:00 AM</td>
<td>Villringer A. (Leipzig, Germany)</td>
<td>“Good” and “bad” plasticity after stroke</td>
</tr>
<tr>
<td>11:00 – 11:20 AM</td>
<td>Kim Y.-H. (Seoul, Republic of Korea)</td>
<td>Noninvasive brain stimulation for modulating neural network plasticity in stroke rehabilitation</td>
</tr>
<tr>
<td>11:20 – 11:40 AM</td>
<td>Saur D. (Leipzig, Germany)</td>
<td>Reorganisation and modulation of language networks after stroke</td>
</tr>
<tr>
<td>11:40 – 12:00 PM</td>
<td>Sabel B. (Magdeburg, Germany)</td>
<td>Neurorepair and vision restoration with brain synchronization: a network problem?</td>
</tr>
</tbody>
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**“Händel-Saal”**

<table>
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<tbody>
<tr>
<td>10:30 AM</td>
<td><strong>PRESSURE, PENUMBRA AND PROMISING ACUTE STROKE THERAPIES</strong></td>
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<tr>
<td>10:30 – 10:45 AM</td>
<td>Howells D. W. (Hobart, Australia)</td>
<td>Human stem cell derived neurons to screen drugs for human therapeutic potential</td>
</tr>
<tr>
<td>10:45 – 11:05 AM</td>
<td>McLeod D. (Callaghan, Australia)</td>
<td>Intracranial pressure regulation after ischemic stroke and the effect of therapeutic hypothermia</td>
</tr>
<tr>
<td>11:05 – 11:20 AM</td>
<td>Spratt N. (Callaghan, Australia)</td>
<td>Mechanisms of intracranial pressure elevation and collateral failure after stroke</td>
</tr>
<tr>
<td>11:20 – 11:35 AM</td>
<td>Turner R. (Adelaide, Australia)</td>
<td>Take the pressure down: targeting neuropeptides to reduce ICP</td>
</tr>
<tr>
<td>11:35 – 11:50 AM</td>
<td>Macrae M. (Glasgow, UK)</td>
<td>A new spin on experimental stroke research: using oxygen to image &amp; treat the ischaemic brain</td>
</tr>
<tr>
<td>11:50 – 12:00 PM</td>
<td>General discussion</td>
<td></td>
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</table>
10:30 AM – 12:00 PM
IMMUNITY IN POST-STROKE NEURONAL DAMAGE AND REPAIR:

**THE JURY IS STILL OUT**

Chairs: Gelderblom M., Offner H.

10:30 – 10:47 AM
Gelderblom M. (Hamburg, Germany)
Role of γδ T cells in stroke

10:47 – 11:04 AM
Lambertsen K. (Odense, Denmark)
Microglia mediate neuroprotection following acute trauma to the CNS

11:04 – 11:21 AM
Liesz A. (Munich, Germany)
Post-stroke peripheral immune activation in neuronal injury and repair

11:21 – 11:38 AM
Neumann J. (Magdeburg, Germany)
Neutrophils and microglia: features in the injured brain

11:38 – 11:55 AM
Offner H. (Portland, USA)
Immunotherapeutic approaches for stroke

11:55 – 12:00 PM
Gelderblom M. (Hamburg, Germany)
Closing remarks

12:00 – 2:30 PM
Lunch break, industrial exhibition

1:00 – 2:30 PM
**POSTER SESSIONS I – 1 - I – 5**

I – 1: The neurovasculature in stroke and dementia
I – 2: Neuroprotection: molecular targets and further research directions
I – 3: Future research directions in basic and clinical neuroscience
I – 4: Neural and neuronal network pathology in neurotrauma and --degeneration / Understanding and controlling neuroinflammation
I – 5: Glial cells, the blood brain barrier and the neurovascular unit

2:30 – 4:00 PM
ROOTS AND ROUTES FOR STROKE RECOVERY

Chairs: Dijkhuizen R. M., Bauer A. Q.

2:30 – 2:40 PM
Dijkhuizen R. M. (Utrecht, Netherlands)
Opening remarks

2:40 – 3:00 PM
Otte W. (Utrecht, Netherlands)
Whole-brain network modeling in post-stroke recovery: unbiased topological change characterization in relation to sensorimotor outcome

3:00 – 3:20 PM
Bauer A. Q. (St. Louis, USA)
Contralateral homotopic activity negatively influences functional recovery after stroke

3:20 – 3:40 PM
Lee J.-M. (St. Louis, USA)
Sensory deprivation following cortical focal ischemia facilitates remapping and accelerates behavioral recovery

3:40 – 4:00 PM
Nudo R. J. (Kansas City, USA)
Spike-driven neuromodulation for repair of the injured brain

2:30 – 4:00 PM
PROTEASES BEFORE, DURING AND AFTER STROKE

Chairs: Vivien D., Montaner J.

2:30 – 2:50 PM
Yepes M. (Atlanta, USA)
Urokinase-type plasminogen activator improves neurological outcome and promotes dendritic spine recovery in the ischemic brain

2:50 – 3:10 PM
Orbe J. (Pamplona, Spain)
Could MMP-10 improve tPA-induced thrombolysis and offer neuroprotection in stroke?

3:10 – 3:30 PM
Montaner J. (Barcelona, Spain)
Proteases as biomarkers for stroke

3:30 – 3:50 PM
Viven D. (Caen, France)
How to improve the benefit of rt-PA-induced thrombolysis following stroke?

3:50 – 4:00 PM
General discussion

2:30 – 4:00 PM
ROLE OF NON-CODING RNAS IN NEUROPROTECTION AND PLASTICITY AFTER STROKE

Chairs: Vemuganti R., Sohrabji F.

2:30 – 2:50 PM
Giffard R. (Palo Alto, USA)
MicroRNAs and stroke - approaches to protection and recovery

2:50 – 3:10 PM
Vemuganti R. (Madison, USA)
Noncoding RNAs and neuroprotection after stroke

3:10 – 3:30 PM
Sohrabji F. (College Station, USA)
Sex and age differences in the efficacy of miRNA as stroke neuroprotectants

3:30 – 3:50 PM
Yin K. (Ann Arbor, USA)
MicroRNAs: novel mediators in cerebral angiogenesis after stroke

4:00 – 4:30 PM
Coffee break, industrial exhibition
## "Weißer Saal"

### 4:30 – 6:00 PM

**POST-STROKE IMMUNITY: HAS THE TIME COME FOR CLINICAL TRIALS?**

**Chairs:** Savitz J., Iadecola C.

<table>
<thead>
<tr>
<th>Time</th>
<th>Speaker</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>4:30</td>
<td>Anrather J. (New York, USA)</td>
<td>The brain-immune interface: Players, hurdles and opportunities</td>
</tr>
<tr>
<td>5:00</td>
<td>Planas A. (Barcelona, Spain)</td>
<td>Myeloid cells in the brain after stroke: microglia, macrophages, and dendritic cells</td>
</tr>
<tr>
<td>5:20</td>
<td>Magnus T. (Hamburg, Germany)</td>
<td>Post stroke inflammation: A treatment option?</td>
</tr>
<tr>
<td>5:40</td>
<td>Veltkamp R. (London, UK)</td>
<td>Perspectives for leukocyte alpha4 integrin blockade in stroke after randomized experimental and clinical trials</td>
</tr>
</tbody>
</table>

### "Händel-Saal"

### 4:30 – 6:00 PM

**PROTEIN EXPRESSION AND POST-TRANSLATIONAL MODIFICATIONS IN NEURODEGENERATIVE DISORDERS**

**Chairs:** Demuth H.-U., Roßner S.

<table>
<thead>
<tr>
<th>Time</th>
<th>Speaker</th>
<th>Title</th>
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<tbody>
<tr>
<td>4:30</td>
<td>von Hörsten S. (Erlangen, Germany)</td>
<td>Mutant huntingtin expression in models of Huntington’s disease and their post-translational modifications</td>
</tr>
<tr>
<td>4:50</td>
<td>Gröger V. (Halle, Germany)</td>
<td>Putative role of envelope proteins from human endogenous retroviruses (HERV) in neurodegenerative diseases</td>
</tr>
<tr>
<td>5:10</td>
<td>Walter J. (Bonn, Germany)</td>
<td>Phosphorylation of Aβ peptides modulates aggregation and deposition in Alzheimer’s disease</td>
</tr>
<tr>
<td>5:30</td>
<td>Roßner S. (Leipzig, Germany)</td>
<td>Tsγ-glutaminyl cyclase-catalyzed pyroglutamate modification of CCL2 in Alzheimer’s disease and a transgenic animal model</td>
</tr>
<tr>
<td>5:50</td>
<td>Schilling S. (Halle, Germany)</td>
<td>Meprin β, but not its isoenzyme Meprin α, catalyzes the formation of N-truncated Aβ peptides in vitro</td>
</tr>
</tbody>
</table>

## "Telemann-Saal"

### 4:30 – 5:30 PM

**CHALLENGES TO IMPROVING CLINICAL TRANSLATION: THE ROLE OF LARGE ANIMAL MODELS OF CNS INJURY**

**Chairs:** Turner R., Boltze J.

<table>
<thead>
<tr>
<th>Time</th>
<th>Speaker</th>
<th>Title</th>
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<tbody>
<tr>
<td>4:30</td>
<td>Gounis M. (Worcester, USA)</td>
<td>The role of large animal stroke models in the development of intravascular therapeutic devices</td>
</tr>
<tr>
<td>4:50</td>
<td>Turner R. (Adelaide, Australia)</td>
<td>Don’t follow the herd: ovine models of acute CNS injury</td>
</tr>
<tr>
<td>5:10</td>
<td>Leonard A. (Birmingham, USA)</td>
<td>Large animal models of traumatic spinal cord injury to improve translational research</td>
</tr>
</tbody>
</table>

### 6:15 – 7:30 PM

**MEET THE CHIEF EDITOR: HOW TO PUBLISH IN HIGH RANKING JOURNALS?**

Aronowski J. (Houston, USA)  
Dirnagl U. (Berlin, Germany)
## 9th International Symposium on Neuroprotection and Neurorepair 2016

### Scientific Program

#### Thursday, April 21, 2016

#### "Weißer Saal"

<table>
<thead>
<tr>
<th>Time</th>
<th>Speaker</th>
<th>Topic</th>
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<tbody>
<tr>
<td>8:00 – 9:45 AM</td>
<td>Haley M. (Manchester, UK)</td>
<td>Endothelial vesicles as mediators of post-stroke blood-brain barrier permeability</td>
</tr>
<tr>
<td>8:00 – 8:15 AM</td>
<td>Merkulova-Rainon T. (Paris, France)</td>
<td>Impairment of nitric oxide pathway: a principal mechanism underlying the hypertension-mediated aggravation of Alzheimer-like pathology in a mouse model of the disease</td>
</tr>
<tr>
<td>8:30 – 9:45 AM</td>
<td>Özen I. (Lund, Sweden)</td>
<td>Loss of regulator of G-Protein Signaling 5 in pericytes promotes vascular protection after acute stroke</td>
</tr>
<tr>
<td>8:45 – 9:00 AM</td>
<td>Henrich-Noack P. (Magdeburg, Germany)</td>
<td>Neither dead nor alive: silent survivor neurons after brain damage</td>
</tr>
<tr>
<td>9:00 – 9:15 AM</td>
<td>Jiang Y. (Lübeck, Germany)</td>
<td>Protective role of brain endothelial nemo in microvascular pathologies and vascular dementia</td>
</tr>
<tr>
<td>9:15 – 9:30 AM</td>
<td>Tseng K.-Y. (Helsinki, Finland)</td>
<td>Effects of intraventricular administration of CDNF, MANF and GDNF on neuroblast migration toward the infarct boundary after cortical stroke in rats</td>
</tr>
<tr>
<td>9:30 – 9:45 AM</td>
<td>Redzic Z. (Kuwait, Kuwait)</td>
<td>Differential effects of erythropoietin on brain endothelial cells and astrocytes in primary culture during anoxia</td>
</tr>
</tbody>
</table>

#### "Händel-Saal"

<table>
<thead>
<tr>
<th>Time</th>
<th>Speaker</th>
<th>Topic</th>
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</thead>
<tbody>
<tr>
<td>8:00 – 9:45 AM</td>
<td>Lourbopoulos A. (Munich, Germany)</td>
<td>Application of the &quot;post-stroke care&quot; concept for long-term, translational, mouse stroke studies on bone marrow stromal cells treatment</td>
</tr>
<tr>
<td>8:00 – 8:15 AM</td>
<td>Bieber M. (Würzburg, Germany)</td>
<td>SICFAIL - stroke induced cardiac failure in mice and men</td>
</tr>
<tr>
<td>8:15 – 8:30 AM</td>
<td>Schmidt H. (Münster, Germany)</td>
<td>Phase 2 open-label extension (OLE) study of patisiran, an investigational siRNA agent for familial amyloidotic polyneuropathy (FAP)</td>
</tr>
<tr>
<td>8:30 – 8:45 AM</td>
<td>Roth S. (Munich, Germany)</td>
<td>Stroke induces exacerbated atheroprogression via alarmin-signaling</td>
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#### "Telemann-Saal"

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<tr>
<th>Time</th>
<th>Speaker</th>
<th>Topic</th>
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<tbody>
<tr>
<td>8:00 – 8:15 AM</td>
<td>Hameed B. (Bristol, UK)</td>
<td>Impact of selective glucocorticoid receptor blockade on hippocampal neurotrophic response to micro-fluid percussion injury and on histological and cognitive outcome</td>
</tr>
<tr>
<td>8:15 – 8:30 AM</td>
<td>Ansar S. (Lund, Sweden)</td>
<td>Combination treatment with U0126 and t-PA prevents the detrimental effects induced by delayed t-PA treatment and provides potent neuroprotection after stroke</td>
</tr>
<tr>
<td>8:30 – 8:45 AM</td>
<td>Zvejniece L. (Riga, Latvia)</td>
<td>Neuroprotective effects of R-phenibut in experimental models of stroke and neuropathic pain</td>
</tr>
<tr>
<td>8:45 – 9:00 AM</td>
<td>Airavaara M. (Helsinki, Finland)</td>
<td>Structure, biology and neuroprotective and neurorestorative potential of CDNF/MANF family of neurotrophic factors</td>
</tr>
<tr>
<td>9:00 – 9:15 AM</td>
<td>Kim T.-H. (Madison, USA)</td>
<td>Role of α-Synuclein in ischemic brain damage</td>
</tr>
<tr>
<td>9:15 – 9:30 AM</td>
<td>Maniskas M. (Lexington, USA)</td>
<td>Re-evaluation of nitroglycerin as a therapy following acute ischemic stroke</td>
</tr>
<tr>
<td>9:30 – 9:45 AM</td>
<td>Shi Y. (Pittsburgh, USA)</td>
<td>HSP27 is a novel actin depolymerizing factor-like protein that protects against BBB disruption and long-term neurovascular injury</td>
</tr>
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</table>

### Chairs

- **Neural Vasculature and Neural Network Pathology**
  - Chairs: Petzold G., Plesnila N.

- **Clinical Translation: From Bench to Bedside and Back**
  - Chairs: Rueger, M. A., Neumann J.

- **Neuroprotection 2: New and Re-newed Approaches**
  - Chairs: Blondeau N., Xing C.
**“Weißer Saal”**

**10:30 AM – 12:00 PM**

**THE HAUNTED HEDGE: THE ROLE OF GLIAL CELLS IN INJURY AND REPAIR**

*Chairs: Chen J., Bix G.*

- **10:30 – 11:00 AM**
  - Sofroniew M. (Los Angeles, USA)
  - Diverse functions of reactive and scar-forming astrocytes

- **11:00 – 11:20 AM**
  - Hu X. (Pittsburgh, USA)
  - ST2-dependent microglia/macrophage phenotype switch limits acute ischemic brain injury

- **11:20 – 11:40 AM**
  - Bechmann I. (Leipzig, Germany)
  - Microglial aging

- **11:40 – 12:00 PM**
  - Pekny M. (Gothenburg, Sweden)
  - Attenuation of reactive gliosis slows down progression of amyotrophic lateral sclerosis (ALS) in mice

**“Händel-Saal”**

**12:15 – 2:00 PM**

**HUMAN INDUCED PLURIPOTENT STEM CELLS (iPSC) DERIVED NEURONS: A NOVEL APPROACH FOR NEUROSCIENCE RESEARCH AND DRUG DISCOVERY**

*Hess D. (Cologne, Germany)*

Human iPSC derived neurons recorded by MEA technology: A powerful tool for functional assessment of in vitro neurotoxicity

*Franz D. (Rostock, Germany)*

Electrophysiological characterization of human induced pluripotent stem cell-derived dopaminergic neurons using manual and automated Patch Clamp systems

*Bader B. (Rostock, Germany)*

Functional phenotypic comparison of activity patterns from different mouse brain region-specific neuron cultures with developing human iPSC-derived neuronal networks

*Scarabottolo L. (Milan, Italy)*

Use of iPSC derived cells in HTS: still a dream or a reality?

**Exhibition Area**

**1:00 – 2:30 PM**

**POSTER SESSIONS II-1 - II-5**

- **II – 1:** Traumatic brain injury and hemorrhagic stroke
- **II – 2:** Neuroprotection: molecular targets and further research directions
- **II – 3:** Imaging and novel diagnostics / Post-stroke immunity: has the time come for clinical trials? / The neurovasculature in stroke and dementia / Clinical translation: from bench to bedside and back
- **II – 4:** Rehabilitation and human brain plasticity
- **II – 5:** Current controversies and novel hypotheses in neuroprotection and Neurorepair / The neurovasculature in stroke and dementia
<table>
<thead>
<tr>
<th>Time</th>
<th>“Weißer Saal”</th>
<th>“Telemann-Saal”</th>
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</thead>
<tbody>
<tr>
<td>2:30 – 4:00 PM</td>
<td>WHITE MATTER MECHANISMS IN CNS INJURY AND DISEASE</td>
<td>THE ROLE OF BLOOD IN BRAIN INJURY</td>
</tr>
<tr>
<td>Chairs: Modo M., Henrich-Noack P.</td>
<td>Chairs: Zille M., Plesnila N.</td>
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<tr>
<td>2:30 – 3:00 PM</td>
<td>Hamel E. (Montreal, Canada)</td>
<td>2:30 – 2:35 PM</td>
</tr>
<tr>
<td>White matter alterations and cognitive failure</td>
<td>Opening remarks</td>
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<tr>
<td>3:00 – 3:20 PM</td>
<td>Dijkhuizen R. M. (Utrecht, The Netherlands)</td>
<td>2:35 – 2:55 PM</td>
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<tr>
<td>DTI of white matter changes in brain disease models - potentials and pitfalls</td>
<td>The invisible vessels: their role after subarachnoid hemorrhage</td>
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<tr>
<td>3:20 – 3:40 PM</td>
<td>Benett M. (New York, USA)</td>
<td>2:55 – 3:15 PM</td>
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<tr>
<td>Improving white matter integrity after traumatic brain injury by modulating microglia/macrophages</td>
<td>Subdural hemorrhage - blood, a mediator of secondary brain damage</td>
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<td>3:40 – 4:00 PM</td>
<td>Arai K. (Boston, USA)</td>
<td>3:15 – 3:35 PM</td>
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<tr>
<td>Roles of oligodendrocyte precursor cells in cerebral white matter</td>
<td>Mechanisms of cell death after experimental hemorrhagic stroke</td>
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<tr>
<td>2:30 – 4:00 PM</td>
<td>IMAGING TOOLS TO ADVANCE THE UNDERSTANDING OF NEUROINFLAMMATION</td>
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<tr>
<td>Chairs: Klohs J., Farr T.</td>
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<tr>
<td>2:30 – 2:33 PM</td>
<td>Farr T. (Nottingham, UK)</td>
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<tr>
<td>Opening remarks</td>
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<tr>
<td>2:33 – 2:50 PM</td>
<td>Klohs J. (Zurich, Switzerland)</td>
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<tr>
<td>Near-infrared fluorescence imaging for non-invasive tracking of the neutrophil response after experimental stroke</td>
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<td>2:50 – 3:07 PM</td>
<td>Denes A. (Budapest, Hungary)</td>
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<tr>
<td>SPECT and two photon imaging to reveal early central and peripheral inflammatory changes after stroke</td>
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<td>3:07 – 3:24 PM</td>
<td>Zinnhardt B. (Muenster, Germany)</td>
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<tr>
<td>Novel approaches/probes for PET imaging of inflammatory mediators for brain diseases</td>
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<td>3:24 – 3:41 PM</td>
<td>Sorokin L. (Muenster, Germany)</td>
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<tr>
<td>Imaging of immune cell infiltration in the brain in experimental autoimmune encephalomyelitis</td>
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<tr>
<td>3:41 – 3:58 PM</td>
<td>Dedeurwaerdere S. (Antwerp, Belgium)</td>
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<tr>
<td>Imaging brain inflammation following brain trauma: implications for acquired epilepsy</td>
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<tr>
<td>3:58 – 4:00 PM</td>
<td>Farr T. (Nottingham, UK)</td>
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<tr>
<td>Closing remarks</td>
<td></td>
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<tr>
<td>4:30 – 6:00 PM</td>
<td>THE SPLEEN AS A NOVEL TARGET FOR NEW STROKE THERAPIES</td>
<td></td>
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<tr>
<td>Chairs: Dirnagl U., Anrather J.</td>
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<tr>
<td>4:30 – 4:50 PM</td>
<td>Offner H. (Portland, USA)</td>
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<tr>
<td>Splenic atrophy in experimental stroke</td>
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<tr>
<td>4:50 – 5:10 PM</td>
<td>Mays R. (Cleveland, USA)</td>
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<tr>
<td>Results of the B01-02 phase 2 trial testing the safety and efficacy of multiStem® in treatment of ischemic stroke: evidence for modulating the peripheral immune response</td>
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<tr>
<td>5:10 – 5:30 PM</td>
<td>Savitz S. I. (Houston, USA)</td>
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<tr>
<td>The spleen response in patients with acute stroke</td>
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<tr>
<td>4:30 – 5:40 PM</td>
<td>MODELLING VASCULAR CONTRIBUTIONS TO COGNITIVE IMPAIRMENT AND DEMENTIA WITH ALZHEIMER’S DISEASE</td>
<td></td>
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<tr>
<td>Chairs: Wilcock D., Reymann K.</td>
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<tr>
<td>4:30 – 4:50 PM</td>
<td>Wilcock D. M. (Lexington, USA)</td>
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<tr>
<td>The hyperhomocysteinemia model of VCID results in exacerbated CAA and worsened cognition in an amyloid depositing transgenic mouse</td>
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<tr>
<td>4:50 – 5:10 PM</td>
<td>Murphy M. P. (Lexington, USA)</td>
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<tr>
<td>Modeling vascular contributions to cognitive impairment and dementia (VCID) with co-existing Alzheimer’s pathology</td>
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<td>5:10 – 5:30 PM</td>
<td>Cribbs D. H. (Irvine, USA)</td>
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<tr>
<td>Hypertension rapidly increases cerebrovascular and parenchymal pathology in amyloid precursor protein transgenic mice</td>
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### SCIENTIFIC PROGRAM

#### "Telemann-Saal"

<table>
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<tr>
<th>Time</th>
<th>Event</th>
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</thead>
</table>
| 4:30 – 5:45 PM | **NON-INVASIVE NEUROMODULATION FOR CNS DISEASES**  
                Chairs: Abe K., Boltze J.  
                Ayata C. (Boston, USA)  
                Vagus nerve stimulation and cortical spreading depression  
                Rueger M. A. (Cologne, Germany)  
                Transcranial direct current stimulation elicits recovery and stem cell-mediated regeneration in a rat model of stroke  
                Ziemann U. (Tübingen, Germany)  
                Concepts for individualized non-invasive brain stimulation for neurorehabilitation |

#### Gondwanaland

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<th>Time</th>
<th>Event</th>
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<tr>
<td>6:00 – 10:00 PM</td>
<td><strong>GONDWANALAND TOUR AND CONGRESS DINNER</strong></td>
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#### FRIDAY, APRIL 22, 2016

#### "Händel-Saal"

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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</table>
| 9:00 – 10:30 AM    | **PATHOPHYSIOLOGY OF VASCULAR COGNITIVE IMPAIRMENT**  
                     Chairs: Petzold G., Farr T. D.  
                     Petzold G. (Bonn, Germany)  
                     Opening remarks  
                     Petzold G. (Bonn, Germany)  
                     Role of neuroinflammation in animal models of vascular cognitive impairment  
                     Horsburgh K. (Edinburgh, UK)  
                     The link between vascular disease and Alzheimer’s disease: insight from a mouse model of chronic cerebral hypoperfusion  
                     Iadecola C. (New York, USA)  
                     Neurovascular pathways to cognitive impairment  
                     Murphy T. H. (Vancouver, Canada)  
                     Assessment of mouse cortical structure and function in models of focal and diffuse vascular injury  
                     Farr T. D. (Nottingham, UK)  
                     Neuroimaging biomarkers in a mouse model of vascular cognitive impairment  
                     Petzold G. (Bonn, Germany)  
                     Closing remarks  
                     Coffee break |

| 11:00 – 12:30 AM   | **NEUROPROTECTION 3: NON-CELL AUTONOMOUS MECHANISMS**  
                     Chairs: Lo E., Boltze J.  
                     Chen J. (Pittsburgh, USA)  
                     Microglia/macrophage polarization: new therapeutic target in CNS injuries  
                     Xing C. (Boston, USA)  
                     Help-me signaling: non-cell autonomous mechanisms of neuroprotection and neurorecovery  
                     Perez-Pinzon M. (Miami, USA)  
                     Astrocyte-neuronal interactions in ischemic tolerance  
                     Harms C. (Berlin, Germany)  
                     Post-stroke angiogenesis and neuroplasticity in stroke recovery  
                     12:30 – 1:00 PM | **PRESIDENTIAL CLOSING LECTURE**  
                     Chair: Boltze J.  
                     1:00 – 1:30 PM | **CLOSING CEREMONY** |

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International Society for Cerebral Blood Flow and Metabolism

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**BERLIN BRAIN 2017**

April 1st – April 4th 2017
Berlin, Germany
POSTER SESSIONS

The poster sessions P I (P I–1; P I–2; P I–3; P I–4; P I–5) will be on Wednesday and the poster sessions P II (P II–1; P II–2; P II–3; P II–5) on Thursday.

**Wednesday, April 20, 2016**

P I – 1 (9 posters)
The neurovasculature in stroke and dementia

P I – 2 (28 posters)
Neuroprotection: molecular targets and further research directions

P I – 3 (17 posters)
Future research directions in basic and clinical neuroscience

P I – 4 (26 posters)
Neural and neuronal network pathology in neurotrauma and –degeneration / Understanding and controlling neuroinflammation

P I – 5 (7 posters)
Glia cells, the blood brain barrier and the neurovascular unit

**Thursday, April 21, 2016**

P II – 1 (7 posters)
Traumatic brain injury and hemorrhagic stroke

P II – 2 (30 posters)
Neuroprotection: molecular targets and further research directions

P II – 3 (17 posters)
Imaging and novel diagnostics / Post-stroke immunity: has the time come for clinical trials? / The neurovasculature in stroke and dementia / Clinical translation: from bench to bedside and back

P II – 4 (14 posters)
Rehabilitation and human brain plasticity

P II – 5 (10 posters)
Current controversies and novel hypotheses in neuroprotection and neurorepair / The neurovasculature in stroke and dementia

The neurovasculature in stroke and dementia

P I – 1-1 Beneficial effects of electroacupuncture on memory impairments and oligodendrocyte regeneration in a mouse model of prolonged cerebral hypoperfusion

P I – 1-2 Decline of perineuronal nets and damaged GABAergic neurons in the nucleus reticular-isthaliami of wildtype and 3xTg mice after experimental cerebral ischemia
Härtig W., Appel S., Suttkus A., Grosche J., Michalski D.

P I – 1-3 Anti-depressant effects of aripiprazole may involve a common CREB signaling pathway with cilostazol in chronic mild stress-treated mice after ischemic stroke

P I – 1-4 Focus on vasculoprotection by the poly(ADP-ribose)polymerase inhibitor PJ34 after stroke and thrombolysis in mice

P I – 1-5 Antenatal inflammation attenuates blood-brain barrier permeability after stroke in young adult mice
Mencel S., Neuhaus W., Förster C., Kleinshnitz C.

P I – 1-6 Rivaroxaban and apixaban reduce hemorrhagic complication by protection of neurovascular unit after thrombolysis in ischemic stroke of rat
Morihara R., Kono S., Yamashita T., Abe K.

P I – 1-7 A novel 5-node feed forward loop to generate robust miRNA-TF regulatory network for cerebral ischemia
Nampoothiri S., Fayaz S. M., Rajanikant G. K.

P I – 1-8 Angiotensin signalling blockade in the prevention of vascular dementia
Niedowicz D., Beckett T., Macheda T., Helman A., Kohler K., Powell D., Murphy M. P.

P I – 1-9 Vasculo- and neuro-protective effect of Wharton jelly derived MSC and EPC on post-ischemic organotypic hippocampal slices
Obtulowicz P., Lech W., Strojek L., Sarnowska A., Domanska-Janik K.

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P I – 2-1 The role of microglia in reducing oligodendrocyte precursor viability after chemotherapy and the protective effects of anti-depressant and anti-inflammatory treatments
Al-Bayti A. A., Rabiaa E., Lario H., Fowler M., Wigmore P.

P I – 2-2 Vitamin D3 improves decline in cognitive function and cholinergic transmission in pre-frontal cortex of streptozotocin-induced diabetic rats
Alrefaie Z., Alhyani A.

P I – 2-3 Angiotensin-(1-7) increases tissue salvage following cerebral ischaemia
Arroja M. M. C., Reid E., Holmes W., Nicklin S. A., Work L. M., McCabe C.

P I – 2-4 Development of a neuroprotective peptide that interferes calpain-processing of NMDAR-GluN2A subunits reducing ischemic brain damage
Ayuso-Dolado S., Esteban-Ortega G. M., González-Camacho S., Tejeda G. S., Díaz-Guerra M.
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Protective effect of bone marrow mesenchymal stem cells transplantation against ischemic brain injury via JNK pathway regulation
Azami A., Vahidinia Z., Atlassi M., Nejati M., Beyer C.

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Aging induced alterations in Ezrin driven peripheral nerve regeneration
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Casas A. I., Langhauser F., Mencel S., Göb E., Dão V. T., Guney E., Kleikers P., Lopez M. G., Menche J., László Barabási A., Kleinschmitz C., Schmidt H.

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Effects of SUMO modulation in neuroprotection and cellular function
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Sildenafil, a cyclic GMP phosphodiesterase inhibitor, induces microglial polarization after focal ischemia in the neonatal mouse brain
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P I – 2-10  
Cyclophilin A/CD147 interactions participate in early brain injury after subarachnoid hemorrhage in rats
Dang B., Wang Z., Li H., Shen H., Chen G.

P I – 2-11  
Role of neurexin-1β and neurexin-1 in cognitive dysfunction after subarachnoid hemorrhage in rats
Shen H., Gao A., Wang Z., Li H., Chen G.

P I – 2-12  
Hydrogen sulfide ameliorates early brain injury following subarachnoid hemorrhage in rats
Cui Y., Yu Z., Li H., Shen H., Chen G.

P I – 2-13  
Conformations of tissue-type plasminogen activator (tPA) orchestrate neuronal survival by a cross-talk between EGFR and NMDAR.
Cheville A., Lenoir S., Lesept F., Bertrand T., Parcq J., Vivien D.

P I – 2-14  
Neuroprotection of atorvastatin against oxygen-glucose deprivation-induced neural stem cell death
Choi N.-Y.

P I – 2-15  
Effect of monomeric-fumarate on experimental stroke

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Modulation of serotonin signaling has no effect on established amyloid pathology in the APPSwpePS1ΔE9 mouse model of Alzheimer’s disease

P I – 2-17  
Human iPSC derived neurons recorded by MEA technology: A powerful tool for functional assessment of in vitro neurotoxicity
Hess D., Luerman G., Guenther E., Bohlen H.

P I – 2-18  
Intravenously administered interleukin-6 improves functional outcome after focal cerebral ischemia without affecting infarct volumes
Hjortdal Groenhoej M., Hjelm Clausen B., Fenger C., Lykke Lamberts K., Finsen B.

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Neuronal death after brain ischemia is blocked by interfering with the E2F4-regulated Orcl1 de-novo transcription in neurons
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Effects of clopidogrel resinate and clopidogrel bisulfate against oxygen glucose deprivation-induced neural stem cell death
Hwang M. A.

P I – 2-21  
The PTEN-long isoform influences AKT homeostasis and neuronal survival after ischemic stress
Jochner M. C. E., An J., Eickholt B. J., Harms C.

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Neuroprotection using intra-arterial cerebral endothelial cell transplantation in rat cerebral ischemia
Kim H.-S., Park M.-S., Choi K.-H.

P I – 2-23  
Proteomic analysis of the effect of acupuncture on suppressing kainic acid-induced neuronal destruction in mouse hippocampus
Kim S., Bae C.-H., Ryu S., Kim D.

P I – 2-24  
Effects of SirT5 deletion and PKCε activation on the brain primary metabolome
Koronowski K., Stradecki H., Morris-Blanco K., Garrett T., Perez-Pinzon M.

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Long-term treatment of Statins has negative effects on neural stem cells through inhibiting proliferation and inducing apoptosis
Lee E.-H.

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Transcranial low-level light therapy suppresses inflammasome-mediated brain damage in experimental ischemic stroke

P I – 2-27  
Glyoxalase 1 determines the extent of neuronal injury

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Acute high-fat diet in the absence of obesity worsens stroke outcome
Haley M., Krishnan S., Thakrar J., de Hoog L., Schiessl I., Allan S., Lawrence C.

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The stemness properties and neural differentiation potential of Wharton’s jelly-derived MSC depending on method of cell isolation
Lech W., Drela K., Strojek L., Sarnowska A., Domanska-Janik K.

P I – 3-4  
Brain plasticity under different social environment: molecular and behavioral changes
Lopatina O., Komleva Y., Gorina Y., Volkova V., Salmina A.

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Investigating neuroprotective small molecule inhibition of pro-apoptotic Bax and Bak with unbiased large scale 3D microscopy image analysis
Mergenthaler P., Harirhan S., Brahmbhatt H., Andrews D. W.

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mRNA-driven overexpression of CD49d rodent mesenchymal stem cells for improved homing
Nitzsche F., Blümel S., Boltze J., Deten A.
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Poletti M.

P I – 3-9 Modulation of extracellular matrix proteases in the rat somatosensory cortex is driven by experience-dependent plasticity during stroke recovery
Quattramani M. J., Pruvost M., Guerreiro C., Ruscher K., Vivien D., Wieloch T.

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Säring P., Landgraf P., Seifert U., Dieterich D. C.

P I – 3-11 Perturbed cerebellar cortical development caused by postnatal increase of oxygen
Scheuer T., Endesfelder S., Bührer C., Schmitz T.

P I – 3-12 Combining robotic rehabilitation with silencing of the healthy hemisphere promotes true motor recovery in a mouse model of Ischemic Injury
Sperle C., Aia C., Lai S., Panarese A., Vallone F., Di Garbo A., Micera S., Caleo M.

P I – 3-13 Electrophysiology in ipsc disease modeling: microelectrode array (MEA) and automated patch-clamp approaches
Stößle-Seif E., Dragichevic E., Becker N., Millard D., Isaac C., Nicolini A., Fiene S., Chvatáš S., George M., Fertig N.

P I – 3-14 Longterm effects of thyroid hormones on recovery mechanisms after experimental stroke
Talhada D., Gonçalves I., Wieloch T., Santos C., Ruscher K.

P I – 3-15 Novel cell transplantation therapy for stroke using induced neural stem cells
Yamashita T., Matsuzono K., Morihara R., Abe K.

P I – 3-16 A new approach for selective cerebral hypothermia
Cattaneo G.

P I – 3-17 In-vivo experience with a novel endovascular cooling catheter system for selective cerebral hypothermia
Meckel S., Schumacher M., Maurer C., Boos L., Shah M., Foerster K., Niesen W.-D., Ihorst G., Urbach H., Cattaneo G.

P I – 4-5 High level expression of neurotrophins in serum of patients with SMA type II - mechanism of the plasticity of the nervous system or of a factor which promotes further progression of the disease
Sokolova M., Penniyaynen V., Lobzin S.

P I – 4-6 Prefrontal cortex stroke disrupts cholinergic pathways and impairs learning
Zhou L., Barwick D., Boltz C., Gowing E., Clarkson A.

P I – 4-7 Dose dependent response to extracellular ATP: Activation of astrocytes and antioxidant defense system in vitro
Adzic M., Stevanovic I., Josipovic N., Milosevic M., Nedeljkovic N.

P I – 4-8 Triggering receptor expressed on myeloid cells 2 (TREM2) regulates microglial responses and affects subacute injury and repair after experimental stroke
Alfieri A., Davies C. L., McCulloch L., McColl B.

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Anttila J., Airavaara M.

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Bader B. M., Ehnert C., Jügelt K., Schröder O. H.

P I – 4-11 Intermediate molecules showing association between human ischemic brain and the peripheral blood
Azami-Tameh A., Bahmani B., Atlasi M., Beyer C., Aghadavoud E., Vousooghi N.

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Couch Y., Gardiner C., Sargent I., Anthony D. C., Lamberton K. L., Buchan A. M.

P I – 4-13 Flow cytometric quantification of adhesion molecule expression on choroid plexus epithelial cells in healthy and diseased mice
Didwischus N., Pösel C., Weise G., Wagner D.-C.

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Gallizolli M., Gelderblom M., Orthey E., Planas A. M., Magnus T.

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P I – 4-16 Neuroprotective role of a novel lipophilic PPARδ agonist in ischemic brain injury in mice
Knauss S., Hindinger C., Blaschke F., Endres M., Kunz A.

P I – 4-17 Inflammamsoome and inflammatory mediators expression in astrocytes astrocytes in the neurodegeneration
Komleva Y., Gorina Y., Lopatina O., Malinovskaya N., Panina Y., Chernykh A., Volkova V., Salmina A.

P I – 4-18 Exploring myeloid cell function following cerebral ischaemia in the absence of spontaneous infection
Krishnan S., Grainger J., Smith C., Allan S., Lawrence C.

P I – 4-19 The choroidplexus in post-stroke cerebral leukocyte invasion
Llovera G., Hellal F., Arzberger T., Engelhardt B., Liesz A.

P I – 4-20 Diversity and mechanisms of CNS myeloid cell accumulation in experimental stroke
Davies C. L., Alfieri A., McCulloch L., McColl B.
P I – 4-21 DS2 has an anti-inflammatory effect and improves stroke recovery
Neumann S., Gowing E., Lateef Z., Chebib M., Young S., Clarkson A. N.

P I – 4-22 Beware the intruder: Analysis of neutrophil-microglia interactions after stroke in real time
Riek-Burchardt M., Henneberg S., Müller A., Gunzer M., Neumann J.

P I – 4-23 Alcohol consumption alter the central and systemic inflammatory responses after stroke
Drieu A., Lemarchand E., Quenault A., Vivien D., Rubio M.

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Sá-Pereira I., Stolp H. B., Roodeslaar J., Anthony D. C.

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Schultz S., Khan M. A., Schwaninger M.

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Vaas M., Enzmann G., Licha K., Rudin M., Engelhardt B., Klohs J.

Glial cells, the blood brain barrier and the neurovascular unit

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P I – 5-2 Ischemic postconditioning promotes recovery in the neurovascular unit by stimulating neurogenesis and angiogenesis via BDNF and MMP9 released by astrocytes
Esposito E., Hayakawa K., Arai K., Lo E. H.

P I – 5-3 Mitochondrial membrane potential changes in astrocytes under oxygen and glucose deprivation and the alternative energy metabolism
Korenici A., Boltze J., Andjus P., Radenovic L.

P I – 5-4 Ischemia-induced endothelial degeneration is consistently associated to BBB breakdown in various models of focal cerebral ischemia
Krueger M., Bechmann I., Reichenbach A., Härtig W., Michalski D.

P I – 5-5 Astrocytes protect neural stem cells from effect of chemotherapy

P I – 5-6 IBA-1 clustering characterizes microglial pathology in Alzheimer’s disease
Tischer J., Krüger M., Müller W., Staszewski O., Prinz M., Streit W. J., Bechmann I.

P I – 5-7 TAK1 and NEMO protect the blood-brain barrier and prevent brain endothelial cell death

Traumatic brain injury and hemorrhagic stroke

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Arteaga O., Revuelta M., Uriuren L., Martinez-Ibarra A., Martinez-Millan L., Hilario E., Alvarez A.

P II – 1-2 The balance of Id3 and E47 determines neural stem/precursor cell differentiation into astrocytes

P II – 1-3 Deficiency of Factor XII minimizes brain damage after experimental traumatic brain injury
Hopp S., Albert-Weissenberger C., Mencl S., Sirén A.-L., Kleinschnitz C.

P II – 1-4 Using zebrafish to model haemorrhagic stroke

P II – 1-5 Hemorrhagic stroke model in sheep: A magnet resonance imaging study of morphology, perfusion and diffusion using statistical parametric mapping
Nitsche B., Dreyer A., Bolzje J., Barthel H., Lobensien D., Gräßer F., Ferrera F.

P II – 1-6 Incidence of hemorrhagic transformation after transient ischemic stroke in rats.
Rewell S., Humphrys L., Howells D.

P II – 1-7 Astroglial cells produce a stem cell niche-like extracellular matrix after cortical laser lesions in the mouse
Roll L., Eysel U. T., Faissern A.

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P II – 2-1 The steroid hormone progesterone induces expression of Down-regulated NMDA receptor subunits in ischemic rats
Aftabi Y., Azami-Tameh A., Karimian M., Beyer C., Ali Atlasi M.

P II – 2-2 Post-insult treatment with a combination of epigenetic drugs is neuroprotective in a mouse model of permanent middle cerebral artery
Coelho da Mota M., Porrini V., Schultz S., Schwaninger M., Pizzi M.

P II – 2-3 Zfp580 expression and post-translational modification as a target of endogenous neuroprotection in mouse models of brain ischemia
Lorenz S., Hoffmann C. J., Jochner M., Dopatka M., Endres M., Harms C.

P II – 2-4 Distribution and in vivo secretome of bone marrow stromal cells in the cerebrospinal fluid compartment, after experimental stroke
Lourbopoulos A., Mueller S., Mamarak U., Helfal F., Lichtenthaler S., Plesnula N.

P II – 2-5 The mode of CDNF delivery determines whether it is neuroprotective against ischemic brain injury
Mätlik K., Anttila J., Lindholm P., Harvey B., Arumäe U., Airavaara M.

P II – 2-6 The role of microglia in the development of AD: Is it really a matter of loss of function? Mazzitelli S.
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Michalski D., Krueger M., Hārtig W.

P II – 2-8 Sex differences in response to MEK1/2 inhibition after ischemic stroke
Mostajeran M., Arkelius K., Ahnstedt H., Eddvinsson L., Ansar S.

P II – 2-9 Neuroprotective effects of carbamylated erythropoietin (CEPO) via the erythropoietin/CD131 heteroreceptor complex in mice
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P II – 2-10 Nimodipine enhances post-ischaemic cerebral blood flow and improves behavioural outcomes in rat transient middle cerebral artery occlusion
Neuhaus A., Couch Y., Sutherland B., Buchan A.

P II – 2-11 Longacting calcium channel blocker DHP protects neural stem cells against oxygen-glucose deprivation/reoxygenation by Restoring the function of damaged mitochondria
Park H.

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Jung Y. S., Lee S.- W., Park J. H., Yun Y. J., Choi B. T., Shin H. K.

P II – 2-13 The neuroprotective properties of ethyl pyruvate in excitotoxicity are microglia independent

P II – 2-14 The study of the neurotropic peptides role in cell responses regulation
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Radv B. M., Banciu A., Radu M., Merigo F., Banciu D. D., Tsenov G., di Chio M., Bertini G., Fabene P. F.

P II – 2-16 The role of acute phase protein pentraxin 3 in inflammation and angiogenesis after ischaemic stroke
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P II – 2-18 Central blockade of Mas receptor worsens outcome following transient MCAO in a rat model of genetic hypertension
Reid E., Arroja M., Holmes W., Nicklin S., Work L., McCabe C.

P II – 2-19 Gene expression pattern after neonatal hypoxic-ischemic injury and modification after treatment administration in rat brainstem
Revuelta M., Arteaga O., Álvarez A. D. L., Martínez A., Hilario E.

P II – 2-20 Beneficial effect of ethanol beyond the therapeutic window of rt-PA: pre-clinical study in a model of thromboembolic stroke

P II – 2-21 Neuroprotective effect of ghrelin on long-term potentiation in the hippocampal dentate gyrus and memory impairment following streptozotocin-induced diabetes
Sadeghi B.

P II – 2-22 Perlecan LG3 is neuroprotective when administered intra-arterially after experimental ischemic stroke
Salmeron K., Maniskas M., Fraser J., Bix G.

P II – 2-23 New synthetic peptide protects neurons from death induced by toxic influences of glutamate and activated mast cells via protease-activated receptor 1 type
Savinkova I., Strukova S., Sidorova M., Gorbacheva L.

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P II – 2-25 GDNF influence on the functional neural networks reorganization in the ischemic factors modeling in vitro
Shishkina T., Vedunova M., Mishchenko T., Mitroshina E., Babaev A., Pinamakin A., Kazantsve V., Mukhina I.

P II – 2-26 Gut microbiota alterations after ischemic stroke impact immunity and brain tissue injury
Singh V., Roth S., Stecher B., Liesz A.

P II – 2-27 The novel vaccine peptide GV1001 effectively protects from brain against ischemia/reperfusion injury by mimicking the extra-telomeric functions of human telomerase reverse transcriptase.
Son J., Koh S.- H.

P II – 2-28 Poly(ADP-ribose)polymerase-1 (PARP-1) impact on glutamate-induced disturbance of calcium concentration in cultured neurons
Surin A., Pinelis V., Gorbacheva L., Shram S., Krasilnikova I., Efremova A., Savinkova I., Persiantseva N.

P II – 2-29 A specific nutritional intervention with Fortasyn as therapeutic approach after ischemic stroke

P II – 2-30 Dopamine agonists rescue amyloid β induced LTP impairment by Src-family tyrosine kinases
Xiang P. Y., Janc O., Grochowska K. M., Kreutz M. R., Reymann K. G.

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P II – 3-1 Quantifying neurite dynamics in human iPSC-derived neuronal mono- and co-cultures using long term live-cell imaging

P II – 3-2 Combined diffusion and sodium magnetic resonance imaging identifies potentially salvageable tissue after transient ischemic stroke
Weisterling F., Chatzikonstantinou E., Tretichler S., Meairs S., Fatar M., Schad L., Ansar S.

P II – 3-3 Sensitive imaging techniques demonstrate short-chain fatty acid-induced improvement of functional connectivity, metabolic and cerebrovascular function in obesogenic LDLre/-Leiden mice
**Rehabilitation and human brain plasticity**

**P II – 4-1** Biofeedback therapy improved hand function and activities of daily living performances in stroke survivors  
Haghgoo H. A., Haji Ahmad T., Pishyareh E.

**P II – 4-2** Describing the process of family adaptation to activities of daily living in older adults with stroke  
Haghgoo H. A.

**P II – 4-3** Describing the strategies used to adapt with disorders in activities of daily living performances in older adults with stroke  
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**P II – 4-4** Structural factors involve in the process of family adaptation to disorders in activities of daily living in stroke survivors  
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**P II – 4-8** After-effects of anodal transcranial direct current stimulation on the excitability of the motor cortex in rats  

**P II – 4-9** Association between Genetic Variation in Dopamine System and Motor Recovery after Stroke  

**P II – 4-11** Repeated anodal transcranial direct current stimulation induces neural plasticity-associated gene expression in the rat cortex and hippocampus  
Shin Y.-I., Koo H., Kim M. S., Kim Y.-H., Park M., Ko S.

**P II – 4-12** Physical exercise after cardiac arrest reduces cognitive deficits and synaptic dysfunction  
Stradecki H., Cohan C., Youbi M., Dave K., Perez-Pinzon M.

**P II – 4-13** Rehabilitation of patients with lesion of the facial nerve by means of acupuncture and moxibustion  
Tsyo R.

**P II – 4-14** Moderate physical exercise promotes cognitive recovery following focal cerebral ischemia in rats  
Youbi M., Cohan C., Stradecki H., Tiozzo E., Dave K., Wright C., Sacco R., Perez-Pinzon M.

**Current controversies and novel hypotheses in neuroprotection and neurorepair / The neurovasculature in stroke and dementia**

**P II – 5-1** Curcumin improves sensorimotor impairment and the excitability of spinal cord induced by lead during development  
Benammi H., ElHiba O., Vinay L., Bras H., Viemari J.-C., Gamrani H.

**P II – 5-2** Influence of different Noldus CatWalk analysis modes on outcome reporting in one mouse stroke study.  
Bernard R., Mosch L., Rex A., Dirnagl U.

**P II – 5-3** Role of Remak cells in peripheral nerve regeneration  
Carlsstedt A., Böttner R., Schulz A., Morrison H.
Gliptins (Dipeptidyl peptidase-4 inhibitor)-mediated neuroprotection against stroke requires chronic pre-treatment and is Glucagon-like peptide-1 receptor-independent

Association of GSTP1 Ile105Val polymorphism with risk of Alzheimer's disease: evidences from five case-control studies

Poster exhibition / "Weißer Saal"


Migration and survival of glial restricted precursors grown as single cells or neurospheres embedded in hyaluronic acid-based hydrogels with the prospect of using them as intrathecaly injectable composites.

P ii – 5-7 Premigration and survival of glial restricted precursors grown as single cells or neurospheres embedded in hyaluronic acid-based hydrogels with the prospect of using them as intrathecaly injectable composites.

P ii – 5-9 Can an alternative surgical approach reduce variability and improve outcome within a preclinical stroke model? Trotnam M., Kelly M., Janus J., Gibson C.

P ii – 5-10 The effects of anti-TNF treatment on cell proliferation Stubbe J., Frich L. H., Meyer M., Lamberts K. L.

Karimian M., Bahmani B., Naderian H., Beyer C., Azami-Tameh A.

Malysz-Cymborska I., Kalkowski L., Golubczyk D., Janowski M., Wojtkiewicz J., Walczak P.

Evidences from five case-control studies


Karimian, M., Bahmani, B., Naderian, H., Beyer, C., Azami-Tameh, A.

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Admission: free

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THURSDAY, APRIL 21, 2016 | 06:00 PM
We are delighted to invite you to a social dinner on Thursday, April 21, 2016 in the unique location of the Gondwanaland Zoo Leipzig.

Discover three continents under one roof
Entering Gondwanaland will appeal to all of your senses as you come into close contact with the tropical rainforest of Africa, Asia and South America. Under a covered area (larger than two football pitches) there are 100 exotic animal species and approximately 500 different plant and animal species. Follow the jungle paths or treetop trails and drift along in a boat on the jungle river Gamanile.

Enjoy the unique tropical atmosphere and spend an evening with your colleagues and friends.

Address: Zoo Leipzig | Pfaffendorfer Str. 29 | 04105 Leipzig
Begin: 06:00 pm
Admission: 75,00 €

Please note that no more tickets are available at the moment.
Check back at the registration desk if tickets have been returned.
Located in the heart of Germany and about one hour drive south-west of Berlin, Leipzig is one of the most prosperous German cities, enjoying an extraordinarily diverse and exciting city-flair.

As a university town or a place of business and trade, as a city of leisure and nature as well as a cultural hub – Leipzig captivates its visitors and inhabitants every time anew with its wide range of festivals, cultural highlights and rich history.

Poets, composers and artists such as Goethe, Schiller and Bach have shaped the city’s old and strong cultural landscape for centuries. Today, this active cultural life can be experienced in the famous Gewandhaus, the St. Thomas church, the central theater or the Leipzig Opera house. Museums, collections and galleries of contemporary art are a proof of the hip art scene, currently emerging in Leipzig and attracting numerous creative people from larger, but established and settled cultural hotspots.

Moreover, famous neuroscientists such as Paul Flechsig and Bernhard Katz studied and worked in Leipzig, contributing to its scientific reputation which is nowadays represented by one of the most modern European University hospitals as well as a powerful and productive research community.

The Leipzig Fair dates back 800 years and is regarded as the world’s oldest commercial and technical exhibition. In recent decades, Leipzig has also achieved economic success with important industry establishments including Porsche and BMW. Combined with an efficient traffic infrastructure, Leipzig has developed as an important hotspot for business and commerce and therefore follows its long reputation as significant center for trade and fairs.

Since autumn 2015 the congress hall adjacent to Zoo Leipzig is available as a new venue for events. The Leipzig congress hall is an ideal location for congresses, conferences, company events, receptions, and evening events of every kind for up to 1500 people.

Welcome to Leipzig – and welcome to the 9th International Symposium on Neuroprotection and Neurorepair!