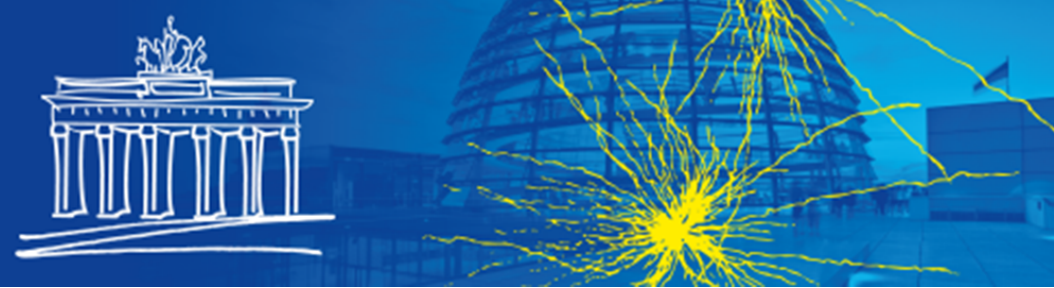


XVI European Meeting on Glial Cells in Health and Disease

Berlin | July 8–11, 2023



Friday, 7 July, 2023, 10:00 a.m. - 5:45 p.m.

I | Introductory Course

Chairs: **Helmut Kettenmann** ()

Presentations:

- | | | |
|----------|------|---|
| 10:00 am | I-01 | Introduction and history of glial research
Helmut Kettenmann (Berlin, Germany) |
| 10:30 am | I-02 | Functions of astrocytes in the healthy brain
Andreas Faissner (Bochum, Germany) |
| 11:30 am | I-03 | Functions of oligodendrocytes in the healthy brain
Leda Dimou (Ulm, Germany) |
| 11:00 am | | Coffee break |
| 12:00 pm | I-04 | Drosophila glia: From metabolic support, modulation of neuronal signaling to myelin
Christian Klämbt (Münster, Germany) |
| 12:30 pm | | Lunch break |
| 1:30 pm | I-05 | Functions and dysfunctions of Schwann cells in the peripheral nervous system
Claire Jakob (Mainz, Germany) |
| 2:00 pm | I-06 | The role of glial cells in neurodegeneration
Harald Neumann (Bonn, Germany) |
| 2:30 pm | | Coffee Break |



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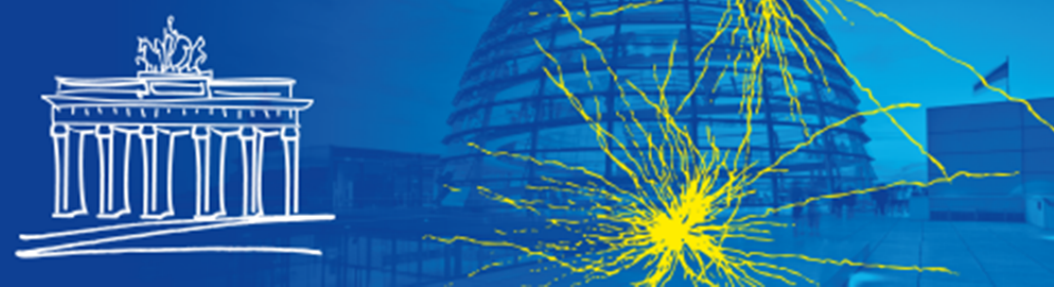


3:00 pm	I-07	The role of glial cells in inflammatory disorders Volker Siffrin (Berlin, Germany)
3:30 pm	I-08	The role of glial cells in psychiatric diseases Susanne Wolf (Berlin, Germany)
4:00 pm		Coffee break
4:30 pm	I-09	Functions of microglia in development and plasticity Knut Biber (Ludwigshafen, Germany)
5:00 pm	I-10	Stem cells Benedikt Berninger (London, UK)
5:30 pm	I-11	Closing



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Saturday, 8 July, 2023, 8:30 a.m. - 11:30 a.m.

W01 | Glial engineering and gliotechnologies: advanced materials, tools and approaches to unveil the role of glia in brain physiology, diseases and in social behavior

Chairs: **Valentina Benfenati** (Bologna, Italy); **Maria Grazia Raucci** (Napoli, Italy)

Presentations:

- | | | |
|----------|--------|---|
| 8:30 am | W01-01 | Gliotechnologies and materials interfaces to control intracellular calcium dynamics in astrocytes and their impact on neurons.
Valentina Benfenati (Bologna, Italy) |
| 9:00 am | W01-02 | Dysfunctional astrocyte-neuron signaling in Major Depressive Disorder
Gertrudis Perea (MADRID, Spain) |
| 9:30 am | W01-03 | Light-sensitive microstructures based on conjugated polymers: A geneless approach to optical stimulation of glial cells
Maria Rosa Antognazza (Milano, Italy) |
| 10:00 am | W01-04 | A paradigm shift: Bioengineering meets glial mechanobiology to explore new therapeutic avenues in central nervous system pathology
Ana Paula Pêgo (Porto, Portugal) |
| 10:30 am | W01-05 | Astrocytes use intracellular dynamics for sensing the environment and generating collective network activity
Wolfgang Losert (College Park, USA) |
| 11:00 am | W01-06 | Computational genomics of astrocyte mosaics in Alzheimer's progression
Maurizio de Pitta (Toronto, Canada) |



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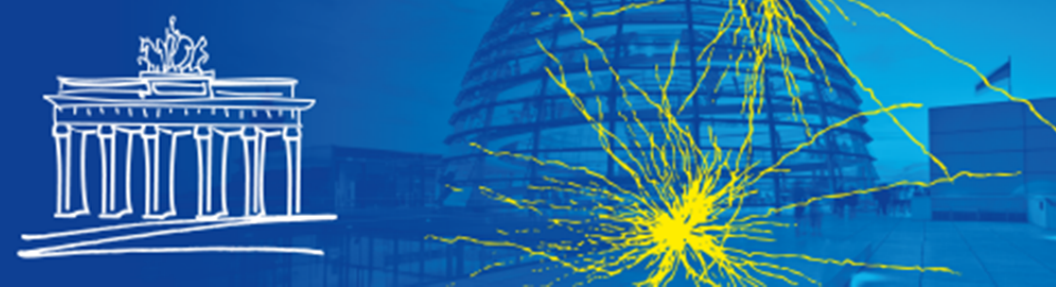
Saturday, 8 July, 2023, 12:15 p.m. - 12:30 p.m.

Opening | Opening

Chairs: **Magdalena Götz** (Munich, Germany)

Presentations:

12:15 pm Opening-01 Welcome
 Helmut Kettenmann (Berlin, Germany)



Saturday, 8 July, 2023, 12:30 p.m. - 1:30 p.m.

L01 | Plenary Lecture I: Freda Miller

Chairs: **Magdalena Götz** (Munich, Germany)

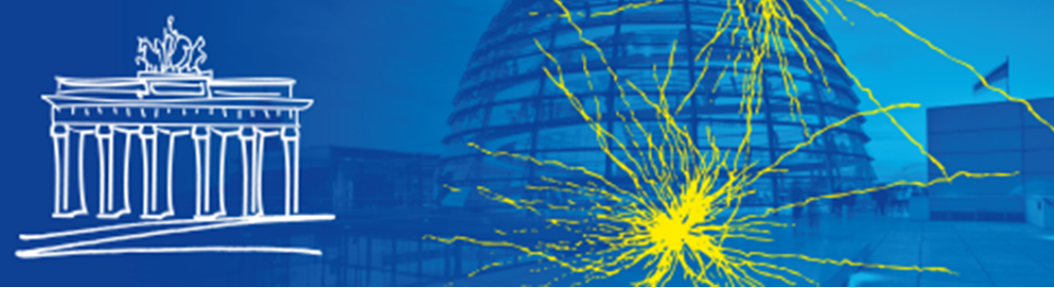
Presentations:

12:30 pm	L01-01	From Development to Repair - How Growth Factors and Stem Cells Build the Nervous System Freda Miller (Vancouver, Canada)
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Saturday, 8 July, 2023, 1:30 p.m. - 4:30 p.m.

PS1 | Poster Session I

Chairs:

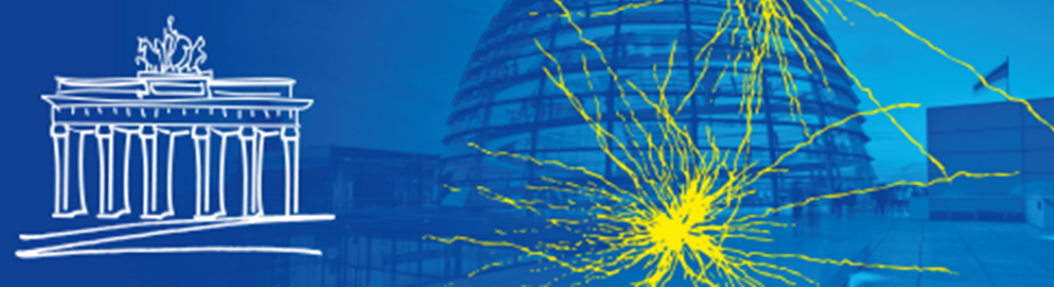
Presentations:

- | | | |
|---------|----------|---|
| 1:30 pm | T01-001A | Role of <i>Etv5</i> in Schwann cell Development and Peripheral Nerve Injury
Lauren Belfiore (Toronto, Canada) |
| 1:31 pm | T01-002A | Jamming Transitions in Astrocytes and Glioblastoma Are Induced by Cell Density and Tension
Tim Hohmann (Halle (Saale), Germany) |
| 1:32 pm | T01-003A | AQP4 as a possible drug target in treatment of stroke- beyond edema
Negar Zohoorian (Oslo, Norway) |
| 1:33 pm | T01-004A | A synergy of laminin and strain-stiffening promotes directed migration of Schwann cells in hydrogels.
Flavia Millesi (Wien, Austria) |
| 1:34 pm | T01-005A | <i>In-Vitro</i> Timelapse Imaging and Expansion Microscopy of Mitochondria within Primary Oligodendrocyte Progenitor Cells
Annika Haak (Bochum, Germany) |
| 1:35 pm | T02-002A | Highly proliferative seeding microglia progenitors shift their developmental program to acquire a mature phenotype in the postnatal hippocampus and cerebellum
Marta Pereira Iglesias (Bilbao, Spain) |
| 1:36 pm | T02-003A | Multicolor fate mapping demonstrates clonal expansion and functional heterogeneity of microglia after stroke
Majed Kikhia (Berlin, Germany) |
| 1:37 pm | T02-004A | Stem-cell-like subpopulation of NG2 glia expands after ischemic injury
Tomas Knotek (Prague, Czech Republic) |



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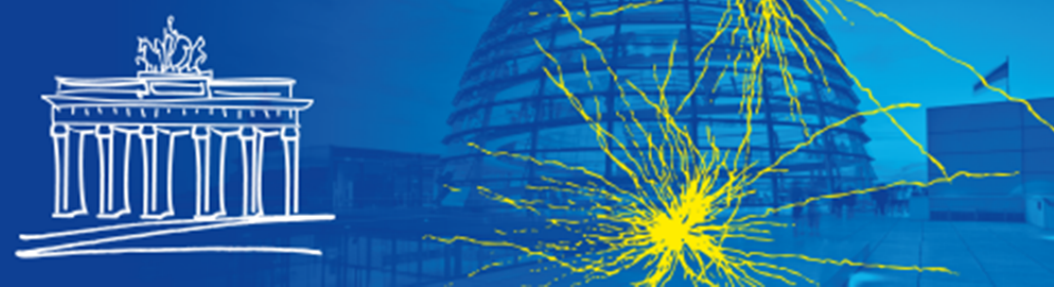


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|---------|----------|--|
| 1:38 pm | T02-007A | Injury primes mutation bearing astrocytes for dedifferentiation in later life
Holly Simpson Ragdale (London, UK) |
| 1:39 pm | T02-008A | Possible rescuing effects on aberrant oligodendroglial differentiation induced by elevated C21orf91 levels via myelin repair drugs: new window of opportunity for Down syndrome white matter restoration?
Laura Reiche (Düsseldorf, Germany) |
| 1:40 pm | T02-009A | Generation of human microglia-like cells derived from peripheral mononuclear blood cells.
Masi Almalki (Nottingham, UK) |
| 1:41 pm | T02-010A | PDGF signaling in OPCs is necessary for complete oligodendroglial occupation of the CNS
Sonia R. Mayoral (Providence, USA) |
| 1:42 pm | T03-001A | IRF2 dissociated from IRF2BP2 by Agmatine mediates transcriptional signaling leading to M2 phenotype microglia.
Jiwon Kim (Seoul, South Korea) |
| 1:43 pm | T03-002A | Calcium signaling and morphological heterogeneity in astrocytes
Kerstin Lenk (Graz, Austria) |
| 1:44 pm | T03-003A | Cell type-specific labelling of newly synthesized proteins by puromycin inactivation.
Florencia Cabrera-Cabrera (Tallinn, Estonia) |
| 1:45 pm | T03-004A | Amyloid β modifies MYRF stability through PKC/GSK3 β signaling to alter oligodendrocyte differentiation
Uxue Balantzategi (Leioa, Spain) |
| 1:46 pm | T03-005A | 40 Hz Light Flicker Stimulation of Calcium Dynamics in Astrocytes
Aikaterini Konstantoulaki (Bologna, Italy) |
| 1:47 pm | T03-006A | Graphene oxide electrodes enable electrical stimulation of distinct calcium signalling in brain astrocytes
Roberta Fabbri (Bologna, Italy) |



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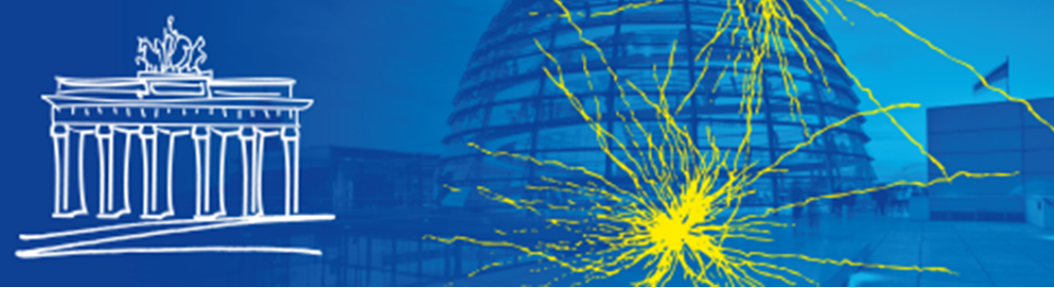


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|---------|----------|--|
| 1:48 pm | T03-007A | Selective extracellular miRNAs activate human microglia derived from induced pluripotent stem cells, thereby controlling their functional properties
Hannah Weidling (Berlin, Germany) |
| 1:49 pm | T03-008A | Noradrenergic and purinergic cAMP signaling in astrocytes of the murine olfactory bulb
Jessica Sauer (Hamburg, Germany) |
| 1:50 pm | T03-009A | Analysis of Local Intracellular Signaling in Astrocytes Using Two-Photon Holographic Microscopy
Mitsuhiro Morita (Kobe, Japan) |
| 1:51 pm | T03-010A | Ca ²⁺ signals mediated by P2Y ₂ receptors in stellate Schwann-like cells are localized about the ciliary pocket and required for maintenance of the cells and their recruitment to vibrissal mechanoreceptors in young adult rats.
Hiromi Takahashi-Iwanaga (Sapporo, Japan) |
| 1:52 pm | T05-001A | Human post-mortem organotypic brain slice cultures: a tool to study glia pathology and test therapies for leukodystrophies
Bonnie C. Plug (Amsterdam, Netherlands) |
| 1:53 pm | T05-002A | Role of microglial CD22 in Alzheimer's disease
Marina Jendrach (Berlin, Germany) |
| 1:54 pm | T05-003A | CCL21-CCR7 PATHWAY INDUCE MICROGLIAL REACTIVITY AND NEURODEGENERATION IN A NOVEL 3,4-DIHYDROXYPHENYLACETOALDEHYDE INDUCED PARKINSON'S DISEASE MODEL
Felipe S. Leser (Paris, France) |
| 1:55 pm | T05-004A | The mechanisms linking amyloid- β -driven disruption of the astrocytic endolysosomal system to the synapse loss
Katarzyna M. Grochowska (Hamburg, Germany) |
| 1:56 pm | T05-005A | <i>The role of astrocytes in Parkinson's disease pathogenesis in GBA N370S hiPSC-derived astrocyte mono-cultures and neuron-astrocyte co-cultures</i>
Naroa Ibarra-Aizpurua (Oxford, UK) |
| 1:57 pm | T05-006A | Silencing of phagocytic receptor MERTK in astrocytes alleviates Tau pathology in rodent models of primary Tauopathies.
Nathan Louvel (Fontenay-aux-Roses, France) |



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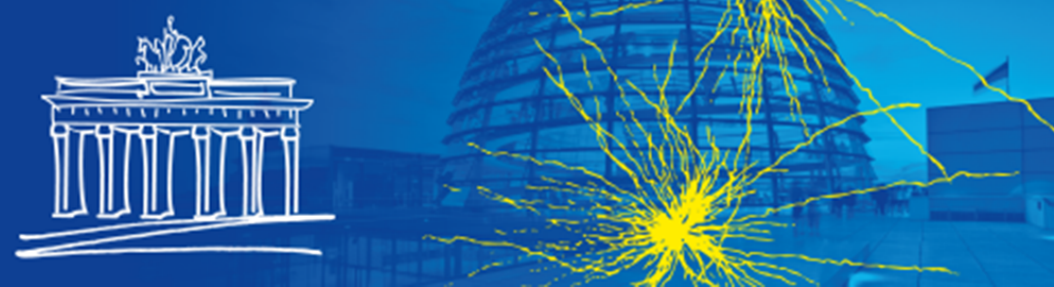


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|---------|----------|--|
| 1:58 pm | T05-007A | The deletion of Galectin-3 Reduces the Pro-Inflammatory Microglial Activation in the Ventral Mesencephalon in two models of peripheral inflammation.
Rocío M. de Pablos (Sevilla, Spain) |
| 1:59 pm | T05-008A | VEGF effect on microglia in Alzheimer's disease
Priscille de Gea (Lyon, France) |
| 2:00 pm | T05-009A | TREM2 agonistic antibodies boosts microglial responses to amyloid in human induced pluripotent stem cell-derived microglia
Elina Svensson (London, UK) |
| 2:01 pm | T05-010A | Cell autonomous microglial reactivity in VCP-related ALS involving lysosomal and immune dysfunction activates STAT2 signalling in motor neurons
Ben Clarke (London, UK) |
| 2:02 pm | T05-011A | Oxytocin modulates microglial activation in Alzheimer's disease models
Maria Clara Selles Japas (New York, USA) |
| 2:03 pm | T05-012A | Hydrophilic saffron extract decreases microglial activation and neuro-protects in a glaucoma model
Jose A Matamoros (Madrid, Spain) |
| 2:04 pm | T05-013A | Is vimentin an overshadowed clue for understanding Parkinson's disease pathology?
Abdulkhalek Dakhel (Uppsala, Sweden) |
| 2:05 pm | T05-014A | Amyloid- β accumulation in human astrocytes induces mitochondrial disruption and changed energy metabolism
Chiara Beretta (Uppsala, Sweden) |
| 2:06 pm | T05-015A | Implication of neuronal and microglial P2X4 in ALS pathogenesis
Sara Carracedo (Bordeaux, France) |
| 2:07 pm | T05-016A | Transgenic expression of the human endogenous retrovirus type-W envelope protein leads to activated and differentially polarized glial cell populations
Joel Gruchot (Düsseldorf, Germany) |
| 2:08 pm | T05-017A | The neurovascular unit repair process in an animal model of Alzheimer's Disease
Stephanie L. Taylor (Bonn, Germany) |



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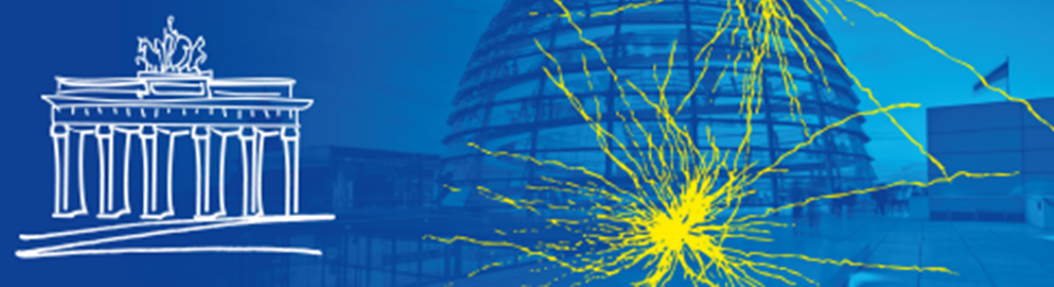


2:09 pm	T05-018A	Interplay between pro-inflammatory cytokines and chromatin-remodeling enzymes in CNS demyelination and repair Xinda Zhao (Mainz, Germany)
2:10 pm	T05-019A	Mitochondrial networks reveal sex-specific microglial response to stress and injury Margaret Maes (Klosterneuburg, Austria)
2:11 pm	T05-020A	SORCS2 protects the brain from stress imposed by amyloid burden in mouse model of Alzheimer disease Vanessa Schmidt (Berlin, Germany)
2:12 pm	T05-021A	Impact of iPSC-derived microglial exosomes on neurons: role of TREM2 and implication in Alzheimer's Disease Foteini Vasilopoulou (London, UK)
2:13 pm	T05-022A	A human(ized) <i>in vitro</i> model to study microglia in neurodegeneration Lena Erlebach (Tuebingen, Germany)
2:14 pm	T05-023A	6'-Sialyllactose ameliorates inflammation-induced hearing loss in neomycin hearing loss mouse model Tawfik Abou Assale (Bonn, Germany)
2:15 pm	T05-024A	In-vitro and in-vivo evidence supporting the therapeutic effect of extracellular vesicles derived from mesenchymal stem cells in amyotrophic lateral sclerosis Marco Milanese (Genova, Italy)
2:16 pm	T05-025A	Elucidating the neuroprotective mechanisms of the APOE3 Christchurch mutation in Alzheimer's Disease Sarah A. Naguib (New York, USA)
2:17 pm	T05-026A	Lysosome status as a key driver of microglial phenotype and responses to aging Fanny Etienne (Los Angeles, USA)
2:18 pm	T05-028A	Glial p15INK4B in ocular pressure injury: marker of senescence? Gayathri Karthik (Singapore, Singapore)
2:19 pm	T05-029A	The role of Nedd4 ubiquitin protein ligases in the dopaminergic system and their crosstalk with α -synuclein <i>in vivo</i> James A. Conway (Plymouth, UK)



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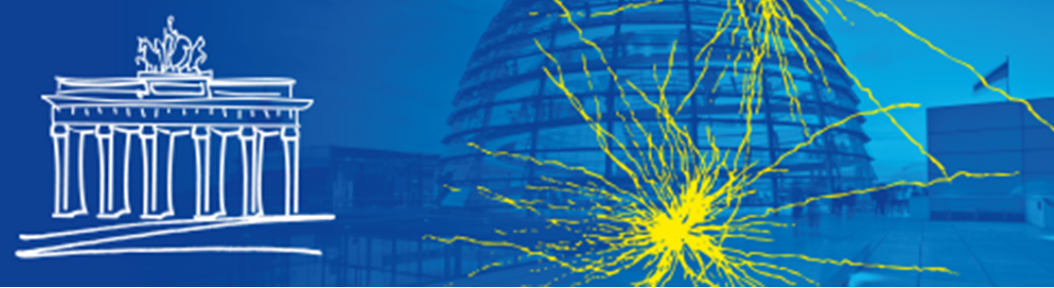


2:20 pm	T05-030A	Functional bias and divergent signaling cascades of amyloid beta variants for formyl peptide receptors in glia and immune cells Lukas Busch (Zweibrücken, Germany)
2:21 pm	T06-001A	Role of microglial metabolic reprogramming in obesity Agnes Nadjar (Bordeaux, France)
2:22 pm	T06-002A	Metabolic control of neural stem cells from people with progressive multiple sclerosis Rosana-Bristena Ionescu (Cambridge, UK)
2:23 pm	T06-003A	Astrocytic lactate in the lateral hypothalamus sustains orexinergic neuronal activity and promotes sleep/wake cycle Alice Braga (London, UK)
2:24 pm	T06-004A	Investigation of cell-specific cerebral glucose uptake combining fluorescence lifetime imaging and kinetic modelling Afroditi Eleftheriou (Zurich, Switzerland)
2:25 pm	T06-005A	Astrocyte-specific knockout of proglycolytic enzyme PFKFB3 causes metabolic remodeling and behavioral alterations in mouse Paula Alonso-Batán (Salamanca, Spain)
2:26 pm	T06-006A	Metabolic and behavioral alterations in astrocyte-specific CPT1A knockout mice Marina Garcia-Macia (Salamanca, Spain)
2:27 pm	T06-007A	Metabolic interactions in the nervous system under suboptimal conditions Stefanie Schirmeier (Dresden, Germany)
2:28 pm	T06-008A	Rewiring of fatty acid synthesis in phagocytes and oligodendrocytes regulates central nervous system remyelination Sanne G. Verberk (Diepenbeek, Belgium)
2:29 pm	T06-009A	Developmental programming of obesity in a mouse model of encephalopathy of prematurity Sihao Diao (Paris, France)
2:30 pm	T06-010A	Astrocytic GLUT1 ablation improves systemic glucose metabolism and memory resilience through enhanced insulin-stimulated ATP release Maite Solas (Pamplona, Spain)



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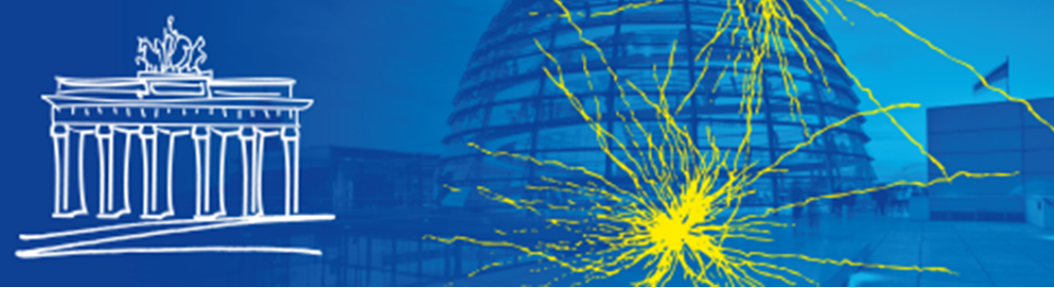


2:31 pm	T06-011A	Metabolic interplay between neuroblasts and their glial niche in the growing <i>Drosophila</i> larva Ioannis Nellas (Dresden, Germany)
2:32 pm	T06-012A	Endocannabinoid signaling to astrocytes in the hypothalamus modulates feeding behavior and energy metabolism. Daniela Herrera Moro Chao (Minneapolis, USA)
2:33 pm	T08-001A	Mbp translocates to the nucleus in oligodendroglia to interact with DNA Karl Carlström (Stockholm, Sweden)
2:34 pm	T08-002A	Human oligodendrocytes development in the second-trimester stage revealed by single-nuclei RNA-seq and single-nuclei ATAC-seq Fabio Baldivia Pohl (Stockholm, Sweden)
2:35 pm	T08-003A	Study of epigenetic markers in the cerebrospinal fluid of patients with spinal cord injury Irina Baichurina (Kazan, Russia)
2:36 pm	T08-004A	Tle4 prevents premature Schwann cell differentiation via a negative feedback loop with Sox10. Tim Aberle (Erlangen, Germany)
2:37 pm	T08-005A	Histone-ubiquitinating E3 ligase subunit Rnf40 influences oligodendrocyte differentiation and myelination in the postnatal spinal cord Hannah M. Wüst (Erlangen, Germany)
2:38 pm	T08-006A	The role of Rnf40 in mouse oligodendrocyte lineage cells during embryonic development Verena Dehm (Erlangen, Germany)
2:39 pm	T08-007A	Cellular heterogeneity in the development & progression of multiple sclerosis brain lesions Mirjam Koster (Groningen, Netherlands)
2:40 pm	T08-008A	siRNA-guided gene silencing in rat primary microglia maintained in defined vs serum-supplemented culture medium Melania Magercu (Bucharest, Romania)
2:41 pm	T08-009A	Transcriptomics analysis of developing Bergmann glia in anterior and posterior lobules Chiara Di Pietro (Monterotondo Scalo (RM), Italy)



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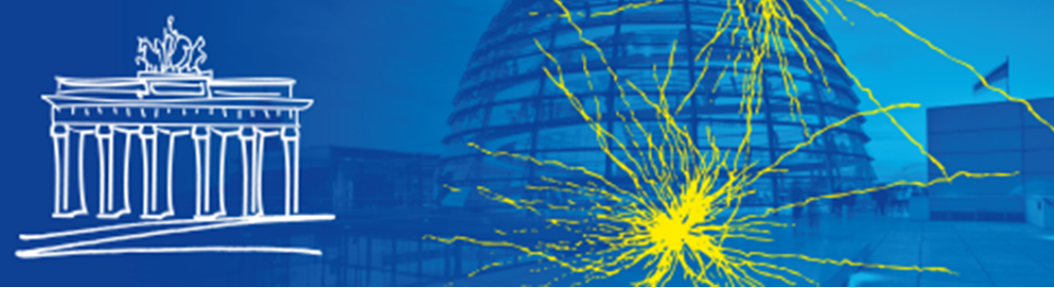


2:42 pm	T08-010A	The role of Dusp15 as a regulator of oligodendrocyte differentiation and developmental CNS myelination in mice Jana Wallberg (Erlangen, Germany)
2:43 pm	T09-001A	Ca ²⁺ -dependent modulation of astrocytic gap junctional coupling upon brief metabolic stress Sara Eitelmann (Düsseldorf, Germany)
2:44 pm	T09-002A	A barrier attenuation of the glia limitans superficialis in the rat medial prefrontal cortex after sciatic nerve injury Petr Dubovy (Brno, Czech Republic)
2:45 pm	T09-003A	Impact of myelin phagocytosis on myeloid cells and its effect on human oligodendrocytes Laura E. Schmitz-Gielsdorf (Münster, Germany)
2:46 pm	T09-004A	Protective effects of astrocytes in reducing pericyte damage and improving cerebral blood flow in stroke mice Gulnaz Begum (Pittsburgh, USA)
2:47 pm	T09-005A	Retinal histological changes in a Dravet syndrome knock-in mouse model Juan J. Salazar (Madrid, Spain)
2:48 pm	T09-006A	Retinal glial changes in SOD1G93A Mouse Model of Amyotrophic Lateral Sclerosis Ana I. Ramirez (Madrid, Spain)
2:49 pm	T09-007A	Astrocytic chloride is brain state dependent and modulates inhibitory transmission Verena Untiet (Copenhagen N, Denmark)
2:50 pm	T09-008A	Characterisation of extracellular vesicles derived from reactive and quiescent human astrocytes Katherine White (Nottingham, UK)
2:51 pm	T09-009A	Molecular and functional dissection of lesion-remote astrocyte reactivity states linked to regenerative plasticity, neural repair and inflammation after CNS injury Sarah McCallum (Los Angeles, USA)
2:52 pm	T10-001A	Profiling the chromatin landscape of adult human oligodendroglia using single-cell epigenomics Mukund Kabbe (Solna, Sweden)



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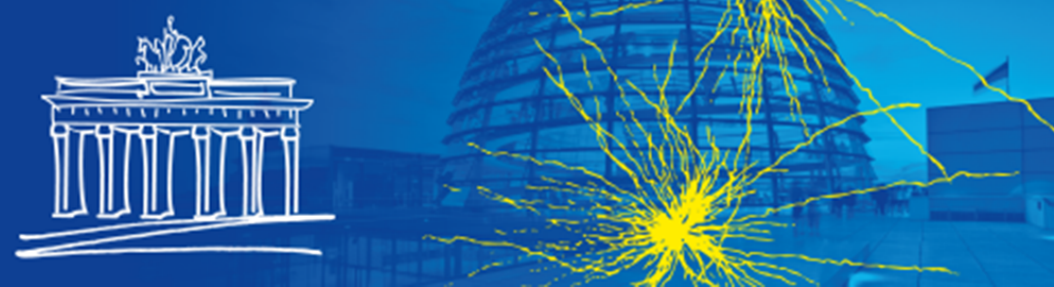


2:53 pm	T10-002A	MorphOMICs: a new algorithm to unravel region- and sex-dependent microglia morphological plasticity in health and disease Gloria Colombo (Lausanne, Switzerland)
2:54 pm	T10-003A	Hexanucleotide repeat expansions in C9orf72 alter microglial responses and prevent a coordinated glial reaction in ALS Pegah Masrori (Leuven, Belgium)
2:55 pm	T10-004A	Contribution of astrocyte subtypes in the human dentate gyrus to the pathology of temporal lobe epilepsy Chiara Löttsch (Erlangen, Germany)
2:56 pm	T10-005A	Assessing the functional role of niche astrocytes in regulation of adult hippocampal neurogenesis Evangelia Masouti (Erlangen, Germany)
2:57 pm	T10-006A	A molecularly-defined non-redundant subpopulation of OPCs controls the generation of myelinating oligodendrocytes during postnatal development. Shayan Moghimyfiroozabad (Paris, France)
2:58 pm	T10-007A	Resolving the morpho-functional responses of locally-constrained retinal microglia with <i>morphOMICs</i> Ryan John Cubero (Klosterneuburg, Austria)
2:59 pm	T10-008A	The generation of morphologically and functionally distinct human astrocyte subtypes to uncover astrocyte shape-function relationships <i>in vitro</i> Kelly O'Toole (London, UK)
3:00 pm	T10-009A	Tracking heterogeneity and morphology of microglia after transient depletion and repopulation Zuzanna M. Luczak-Sobotkowska (Warsaw, Poland)
3:01 pm	T10-010A	Neurodevelopmental Origin of Cortical Satellite Cells. Edson Rodrigues (Montpellier, France)
3:02 pm	T10-011A	Towards modulating human microglial subtypes in disease: developing a pharmacological approach to polarize microglia in a targeted fashion Verena Claudia Haage (New York City, USA)
3:03 pm	T10-012A	Cortical astrocytes are generated from pallial and subpallial progenitors in the developing mouse brain Karine Loulier (Montpellier, France)



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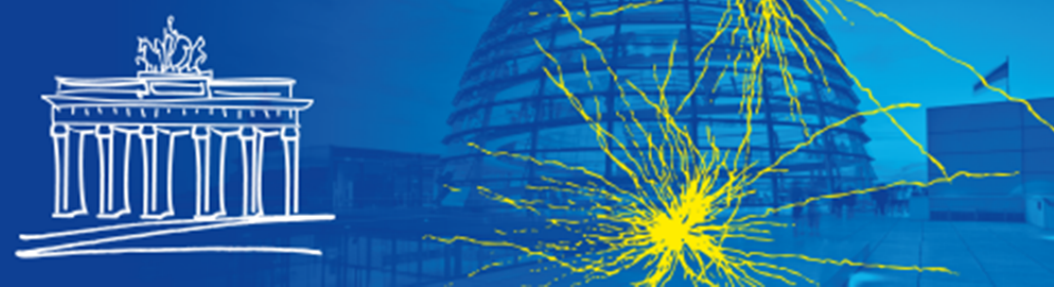


3:04 pm	T10-013A	Exploring astrocyte diversity using multi-omic single-nucleus sequencing Michael R. O'Dea (New York, USA)
3:05 pm	T10-014A	Astrocyte diversity across mammals: a comparative analysis on distribution and single-cell morphology Caterina Ciani (Trieste, Italy)
3:06 pm	T10-015A	Microglial surveillance and injury response are controlled by regionally modulated signaling pathways Mark B. Stoessel (Rochester, USA)
3:07 pm	T11-001A	Functional heterogeneity of astrocytes in the CA1 hippocampus Darren Clarke (Montréal, Canada)
3:08 pm	T11-002A	Synapses and Ca^{2+} activity in oligodendrocyte precursor cells predict where myelin sheaths form Jiaxing Li (Portland, USA)
3:09 pm	T11-003A	Quantification of intracellular Na^+ in hippocampal astrocytes and neurons employing rapidFLIM Jan Meyer (Duesseldorf, Germany)
3:10 pm	T11-004A	Hypothalamic tanycytes transduce temperature sensing to the inhibition of food intake Marco Benevento (Wien, Austria)
3:11 pm	T11-005A	Catching active Astrocyte Ensembles: astrocytic ensembles shape goal-directed behavior in the Nucleus Accumbens Irene Serra (Madrid, Spain)
3:12 pm	T11-006A	Astrocyte Sema3c in neurodevelopment and Rett Syndrome Krissy Lyon (San Diego, USA)
3:13 pm	T11-007A	Contribution of astrocytes to synapse formation in newly generated neurons in the adult hippocampus Nicholas Chalmers (Erlangen, Germany)
3:14 pm	T11-008A	Astroglial swelling mediated by accumulation of non-excitatory amino acids aggravates hypoxic neuronal injury Iris Álvarez-Merz (Madrid, Spain)



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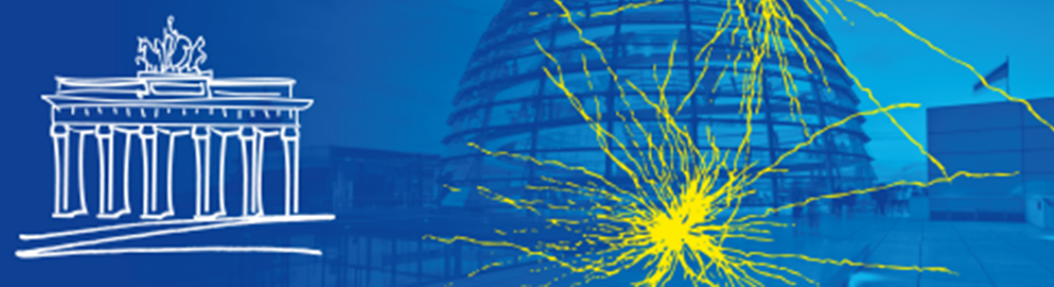


3:15 pm	T11-009A	Impact of AMPA receptors in NG2 glia on signal transmission in the hippocampus and cerebellum Dario Tascio (Bonn, Germany)
3:16 pm	T11-010A	Mechanisms of microglial D-serine mediated synaptic loss after traumatic brain injury (TBI) Dena Arizanovska (Miami, USA)
3:17 pm	T11-011A	Heterogeneity in microglial morphodynamics regulation across the inactive period Kassandre Combet (Lyon, France)
3:18 pm	T11-012A	Deciphering the role of an astrocytic lncRNA in age-associated cognitive diseases Sophie Schröder (Göttingen, Germany)
3:19 pm	T11-013A	Astrocytic Ca^{2+} dysfunctions in Major Depressive Disorder Candela González Arias (Madrid, Spain)
3:20 pm	T11-014A	Developmental cell death of lineage-related interneurons and oligodendroglia impacts prefrontal cortex function Hasni Khelfaoui (Paris, France)
3:21 pm	T11-015A	Developmental cell death of lineage-related interneurons and oligodendroglia is required for cognitive flexibility in mice Cristobal Ibaceta (Paris, France)
3:22 pm	T11-016A	A high-resolution in vivo drug-screen in zebrafish to investigate how myelinated axons grow in diameter. Maria Eichel-Vogel (Edinburgh, UK)
3:23 pm	T11-017A	A role for the Post-Synaptic Density Protein PSD-95 in CNS Myelination Mary-Amélie Masson (Paris, France)
3:24 pm	T11-019A	Nonapoptotic caspase activity regulates complement-dependent synaptic phagocytosis by microglia Megumi Andoh (Tokyo, Japan)
3:25 pm	T11-020A	PDE4B as a key regulator of out of control microglia Ben Rombaut (Diepenbeek, Belgium)



XVI European Meeting on Glial Cells in Health and Disease

Berlin | July 8–11, 2023

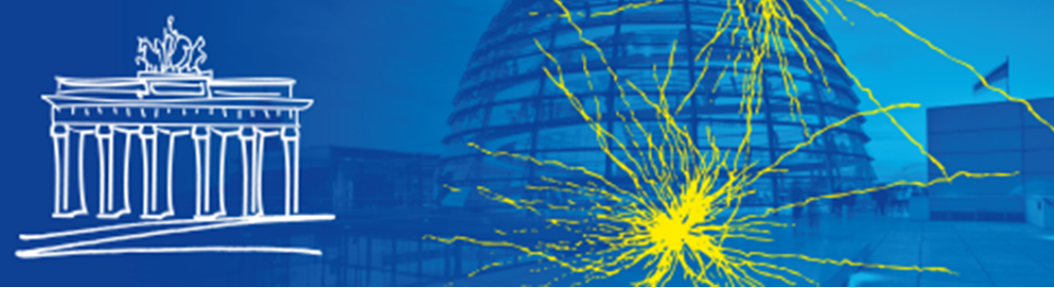


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| 3:26 pm | T11-021A | Gold coated silicon nanowire interface for electrophysiological recording of neurons and glia in co-culture
Giorgia Conte (Bologna, Italy) |
| 3:27 pm | T11-022A | Microglia-complement interactions mediate synaptic dysfunctions in a mouse model of schizophrenia
Nala Gockel (Bonn, Germany) |
| 3:28 pm | T11-023A | Exploring functional sensor imaging of oligodendrocytes
Zainab Faik (Zürich, Switzerland) |
| 3:29 pm | T11-024A | Impact of early disruption of parvalbumin interneuron-OPC interactions on prefrontal-dependent cognitive processes
Fabrice Plaisier (Paris, France) |
| 3:30 pm | T11-025A | Altered secretion of astrocyte-derived extracellular vesicles contribute to the early metabolic failure and redox imbalance in Huntington's disease
Gonzalo Mayorga-Weber (Valdivia, Chile) |
| 3:31 pm | T11-026A | Neuronal Apoptosis Drives Transient CD11c Expression in Retinal Microglia
Nathaniel Ghena (SALT LAKE CITY, USA) |
| 3:32 pm | T11-027A | iPSC-derived human brain tissue models to investigate glial crosstalk in AD
Carolina Cardoso Gonçalves (Munich, Germany) |
| 3:33 pm | T11-028A | Retinal waves induce coordinated neuronal and astrocyte activity in developing visual centers of the brain
Vered Kellner (Baltimore, USA) |
| 3:34 pm | T11-029A | Contribution of peripheral neuronal activity to spinal microglial reactivity in chronic pain
Manon Isler (Lausanne, Switzerland) |
| 3:35 pm | T11-030A | ICAM-1 reverses Amyloid- β mediated microgliosis and subsequent synaptic degeneration by targeting ERK phosphorylation in 5xFAD mice model of Alzheimer's Disease
Soumita Goswami (Kolkata, India) |
| 3:36 pm | T11-031A | Terminal Schwann Cells are unable to complete efficiently synaptic reinnervation in both ALS mouse models and patient neuromuscular junctions.
Amaia Elicegui (Donostia/San Sebastian, Spain) |



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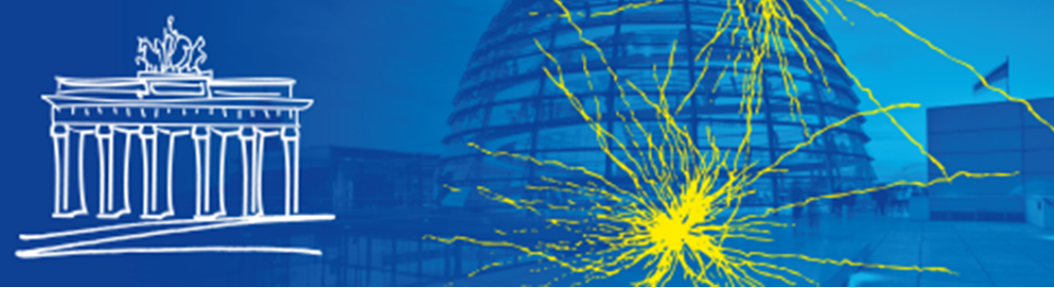


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| 3:37 pm | T11-032A | Influence of glial cells on signal transduction
Henrike Ohm (Münster, Germany) |
| 3:38 pm | T11-033A | Neuronal activity bidirectionally regulates myelin plasticity.
Stavros Vagionitis (Cambridge, UK) |
| 3:39 pm | T11-034A | Microglia contribute to full maturation of glutamatergic networks but are dispensable for pruning of synapses during hippocampal development
Michael Surala (Berlin, Germany) |
| 3:40 pm | T11-035A | Real-time mechanisms of microglia-synapse interaction and spine elimination in acute models of systemic inflammation and tauopathy
Carla Cangalaya (Magdeburg, Germany) |
| 3:41 pm | T11-036A | Dendritic ATP release mediates cell type-specific bidirectional neuron-astrocyte communication
Antonia Beiersdorfer (Hamburg, Germany) |
| 3:42 pm | T11-037A | Towards shining light on axonal energy metabolite dynamics in vivo
Henri S. Zanker (Zürich, Switzerland) |
| 3:43 pm | T11-038A | The ribosomal-associated protein RACK1 represses KIR4.1 translation in astrocytes and influences neuronal activity
Katia Avila Gutierrez (PARIS, France) |
| 3:44 pm | T11-039A | Atypical chemokine receptor 3: a novel player in astrocyte-mediated elimination of synaptic terminals
Veronica Giusti (Venezia, Italy) |
| 3:45 pm | T11-040A | Glial-neuronal crosstalk is crucial for postprandial carbohydrate sensing in <i>Drosophila melanogaster</i> larvae
Divita Kulshrestha (Dresden, Germany) |
| 3:46 pm | T11-041A | Developmental regulation of GABA _A receptors in NG2 glia of the hippocampus
Gerald Seifert (Bonn, Germany) |
| 3:47 pm | T12-001A | Involvement of HIF-1 signaling in oligodendrocyte maturation in the <i>in vitro</i> model of neonatal hypoxia-ischemia
Justyna Janowska (Warsaw, Poland) |



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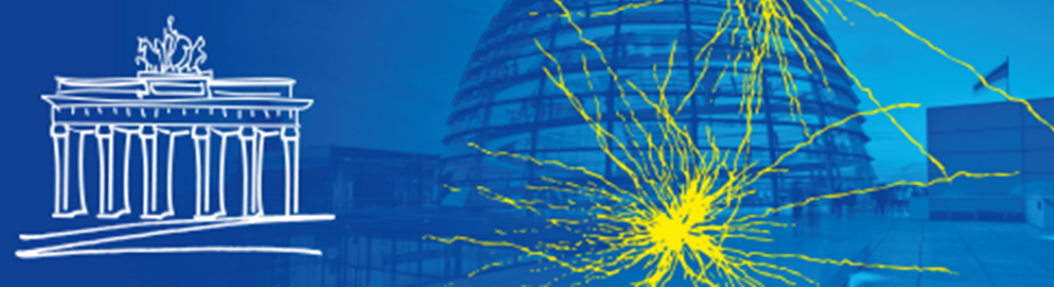


- 3:48 pm T12-002A Effects of endothelial YAP/TAZ on neuroinflammation and outcome after ischemic stroke
Ria Göttert (Berlin, Germany)
- 3:49 pm T12-003A Chronic infection predisposes white matter to ischaemic injury
Alexander G. Mellor (Plymouth, UK)
- 3:50 pm T12-004A Role of selected chemokines in crosstalk of glial cells in the *in vitro* rat model of neonatal asphyxia
Justyna M. Gargas (Warszawa, Poland)
- 3:51 pm T12-005A The influence of histone deacetylase inhibitor – Sodium Butyrate - on microglia polarization in *in vitro* model of neonatal hypoxia-ischemia. The influence of histone deacetylase inhibitor – Sodium Butyrate - on microglia polarization in *in vitro* model of neonatal hypoxia-ischemia.
Karolina Zińska (Warszawa, Poland)
- 3:52 pm T12-006A Autophagy regulates microglial phagocytosis of apoptotic cells in physiology and ischemic stroke pathology
Ainhua Plaza-Zabala (Leioa, Spain)
- 3:53 pm T12-007A The influence of HDACis - Givinostat /ITF2357 and Sodium Butyrate treatment on PI3K/AKT and MAPK/ERK signaling pathways in a rat model of neonatal hypoxic-ischemic brain damage.
Paulina Pawelec (Warsaw, Poland)
- 3:54 pm T12-008A The role of astrocytic TRPV4 channels in regeneration after ischemic brain injury
Zuzana Hermanova (Prague, Czech Republic)
- 3:55 pm T12-009A Fetal inflammation and postnatal hypoxia cause reduced oligodendrocyte maturation, white matter injury and social deficits in a rat model for encephalopathy of prematurity
Myrna J.V. Brandt (Utrecht, Netherlands)
- 3:56 pm T12-010A The role of TRPV4 and AQP4 in cytotoxic edema following brain ischemia
Valeria Marchetti (Prague, Czech Republic)
- 3:57 pm T14-001A Low intensity repetitive transcranial magnetic stimulation enhances remyelination by newborn and surviving oligodendrocytes in the cuprizone model of toxic demyelination
Phuong Tram Nguyen (Hobart, Australia)



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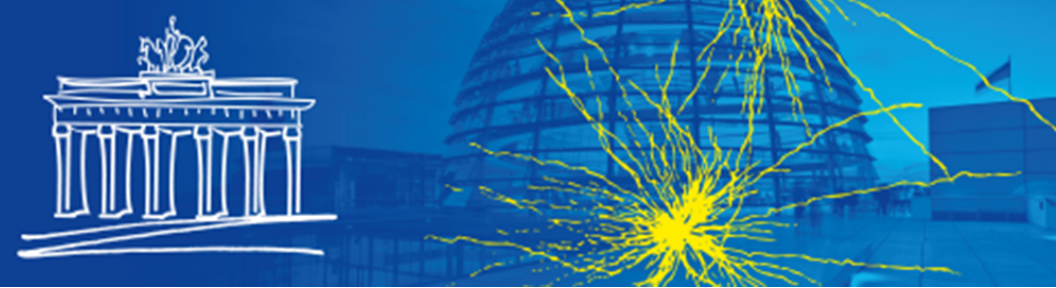


3:58 pm	T14-002A	Human Schwann cells fail to myelinate mouse axons in nerve xenograft transplantation model Tak Ho Chu (Calgary, Canada)
3:59 pm	T14-003A	Dynamics of transcriptomic and epigenomic states of oligodendrocytes in experimental autoimmune encephalomyelitis Chao Zheng (Solna, Sweden)
4:00 pm	T14-004A	Myelination generates aberrant ultrastructure that is resolved by microglia Minou Djannatian (Munich, Germany)
4:01 pm	T14-005A	The role of Sox8 for myelin maintenance relative to Sox10 Lisa Mirja Jörg (Erlangen, Germany)
4:02 pm	T14-006A	Role of Cyclin-dependent kinase 7 in Schwann cell development and myelination Nathalie Schumacher (Liège, Belgium)
4:03 pm	T14-007A	Role of maternal omega-3 fatty acid status in myelination during zebrafish neurodevelopment Katherine M. Ranard (Aurora, USA)
4:04 pm	T14-008A	Vagal Nerve Stimulation reduces neuroinflammation of demyelinated lesions in a murine model of Multiple Sclerosis Fernando C. Ortiz (Santiago, Chile)
4:05 pm	T14-009A	Increased expression of Charcot-Marie-Tooth associated protein PMP22 in Schwann cells induces the integrated stress response via heme-regulated inhibitor (HRI) Kinase Gowda Sreerama Pramod (Nashville, USA)
4:06 pm	T14-010A	Insufficient oligodendrocyte turnover in optic nerve contributes to age-related axon loss and visual deficits Feng Mei (Chongqing, China)
4:07 pm	T14-011A	Changes in cortical excitatory and inhibitory synaptic transmission in a cuprizone-induced demyelination mouse model Eduardo J. Fernandez Perez (Paris, France)
4:08 pm	T14-012A	Adenyl cyclase 6 and cAMP signaling in peripheral myelination Océane El Hage (Le Kremlin-Bicetre, France)



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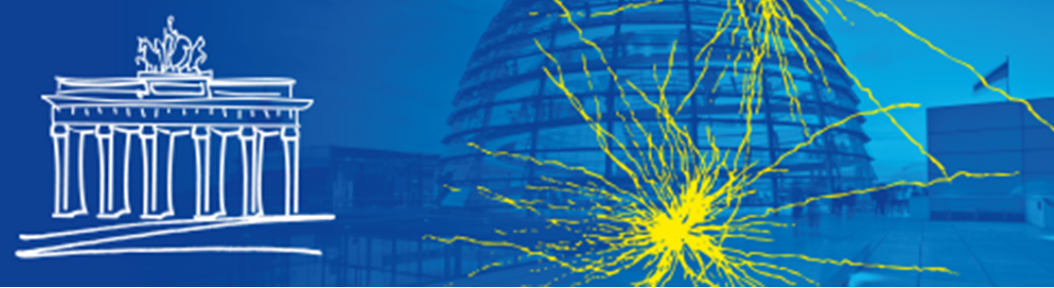


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| 4:09 pm | T14-013A | Myelin proteome resources by quantitative mass spectrometry
Olaf Jahn (Göttingen, Germany) |
| 4:10 pm | T14-014A | The fast-aging killifish: a unique animal model to study the impact of aging on remyelination in the damaged central nervous system
Julie De Schutter (Leuven, Belgium) |
| 4:11 pm | T14-015A | Effects of α -synuclein on myelination, actin remodelling, and mechanical properties in human induced oligodendrocytes
Kristina Battis (Erlangen, Germany) |
| 4:12 pm | T14-016A | EAAT3 modulation of the oligodendrocyte lineage in <i>in vitro</i> and <i>in vivo</i> models of Multiple Sclerosis.
Lieve van Veggel (Hasselt, Belgium) |
| 4:13 pm | T14-017A | Phosphodiesterase (PDE) 4 inhibition boosts Schwann cell myelination in a 3D regeneration model
Melissa Schepers (Hasselt, Belgium) |
| 4:14 pm | T14-018A | From methylation to myelination: epigenomic and transcriptomic profiling of chronic inactive demyelinated multiple sclerosis lesions
Assia Tiane (Hasselt, Belgium) |
| 4:15 pm | T14-019A | Schwann cell stimulation induces functional and structural changes in peripheral nerves
Cosmin I. Ciotu (Vienna, Austria) |
| 4:16 pm | T14-020A | Molecular structure of PMP22
David Ewers (Göttingen, Germany) |
| 4:17 pm | T14-021A | Functional relevance of oligodendroglial CDC42 effector proteins CDC42EP1 and CDC42EP2 for myelin morphology
Sophie Hümmert (Göttingen, Germany) |
| 4:18 pm | T14-022A | Myelinated axon pathology in normal appearing white matter in progressive multiple sclerosis: Novel ultrastructural insight from large scale scanning transmission electron microscopy
Wendy Oost (Groningen, Netherlands) |



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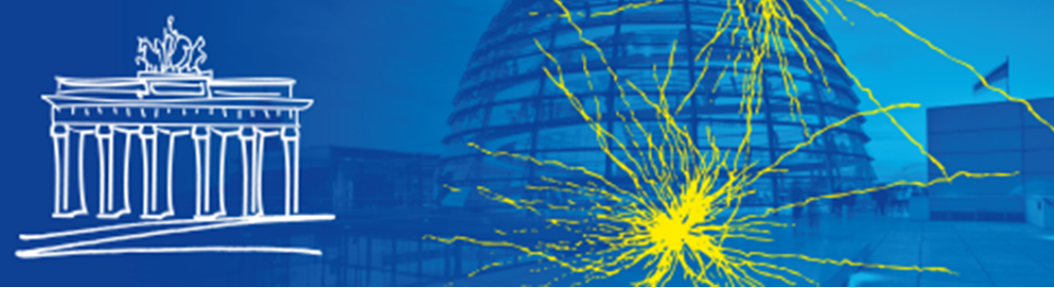


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| 4:19 pm | T14-023A | The <i>soft</i> side of the brain: bioengineered platforms to unveil the role of mechanobiology in demyelinating diseases
Eva D. Carvalho (Porto, Portugal) |
| 4:20 pm | T14-024A | Long term impairment of cognitive function and neural network activity associated with structural changes in myelin after a transient episode of demyelination in adult mouse
Océane Mercier (Marseille, France) |
| 4:21 pm | T14-025A | Cyclin-dependent Kinase 4 (CDK4) is involved in the myelin sheath maintenance of hypothalamic neurons by modulating lipid biosynthesis
Sarah Geller (Lausanne, Switzerland) |
| 4:22 pm | T14-026A | Myelination: APC/C-Cdh1 new function?
Silvia Gomila Huguet (Salamanca, Spain) |
| 4:23 pm | T15-001A | The role of Sox9 in regulating the neuron/glial switch of adult hippocampal neural stem cells
Felix Beyer (Erlangen, Germany) |
| 4:24 pm | T15-002A | Ectopic recruitment of neuronal progenitors in/out of striatal white matter bundles following myelin impairment induced by chemical brain lesion.
Irini Thanou (Athens, Greece) |
| 4:25 pm | T15-003A | Mitochondrial pyruvate metabolism regulates the activation of quiescent adult neural stem cells
Francesco Petrelli (Lausanne, Switzerland) |
| 4:26 pm | T15-004A | Neural precursor/stem cell-based therapy for Rett syndrome
Angelisa Frasca (Milan, Italy) |
| 4:27 pm | T15-006A | Metabolic profiling of neural stem/progenitor cells reveals regional identity
Valentina Scandella (Lausanne, Switzerland) |
| 4:28 pm | T16-001A | Investigating inflammation in ISG15 deficient microglia derived from human pluripotent stem cells
Miguel Salvador Torres Perez (Toronto, Canada) |
| 4:29 pm | T16-002A | Opposing effects of microglial SIGLEC-11 and -16 receptors in transgenic mice on brain “inflammaging”
Harald Neumann (Bonn, Germany) |



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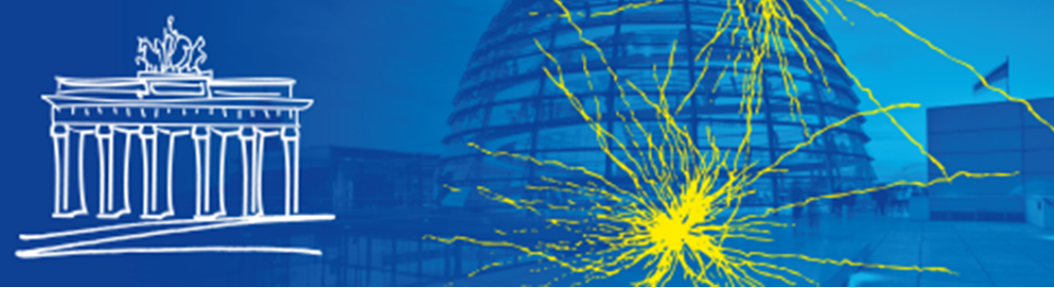


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| 4:30 pm | T16-003A | Breaking the <i>circulus vitiosus</i> of neuroinflammation; resveratrol modulates the activation of human glial cells during cytokine-induced neuroinflammation
Luise Schlotterose (Kiel, Germany) |
| 4:31 pm | T16-004A | Characterizing the accumulation of senescent-like myeloid cells in an experimental model of multiple sclerosis
Zeeba Manavi (Washington, USA) |
| 4:32 pm | T16-005A | Defining Schwann cell – T cell interactions in inflammatory neuropathies by nanoscale FIB-SEM 3D imaging
Kai Christine Liebig (Essen, Germany) |
| 4:33 pm | T16-006A | Understanding the interplay between meningeal inflammation and oligodendrocyte lineage cells in an MS mouse model
Leslie Kirby (Stockholm, Sweden) |
| 4:34 pm | T16-007A | Using ER-Hoxb8 conditionally-immortalized macrophages to study microglia replacement
Kelsey Nemec (Philadelphia, USA) |
| 4:35 pm | T16-008A | TNF and IL6/Jak2 signaling pathways are the main contributors of the glia-derived neuroinflammation present in Lafora disease, a fatal form of progressive myoclonus epilepsy
Pascual Sanz (Valencia, Spain) |
| 4:36 pm | T16-009A | Vagus nerve stimulation reduces microglia in lysolecithin induced demyelination.
Helen Bachmann (Gent, Belgium) |
| 4:37 pm | T16-010A | Long lasting microglia activation after neonatal hypoxia correlates with neurological outcomes in a mouse model.
Aisling Leavy (Dublin, Ireland) |
| 4:38 pm | T16-011A | Activation and responses of Müller glia and microglia in retinal degeneration
Silvia Finnemann (Bronx, USA) |
| 4:39 pm | T16-012A | The aging CNS is protected by an autophagy-dependent microglia population promoted by IL-34
Rasmus Berglund (Solna, Sweden) |
| 4:40 pm | T16-013A | Enforced microglia repopulation by CSF1R inhibition alters the microglia response to peripheral LPS but does not revert endotoxin tolerance.
Tiago Medeiros-Furquim (Groningen, Netherlands) |



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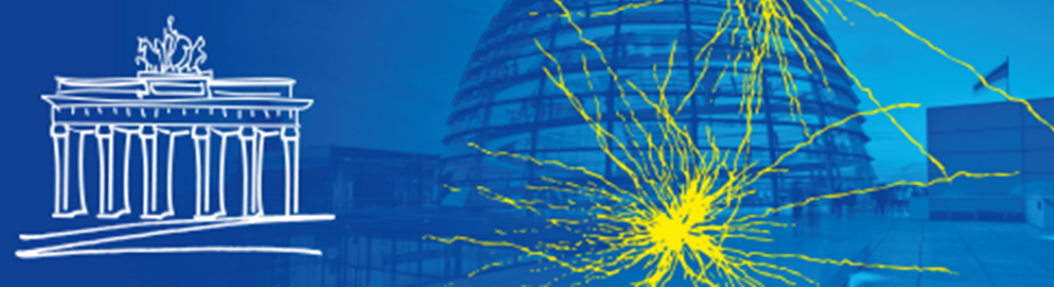


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| 4:41 pm | T16-014A | Development of a new automated pipeline allowing microglial ranking and discrimination according to their morphology.
Sarah Benkeder (Lyon, France) |
| 4:42 pm | T16-015A | Increased neuronal oxytocin via chemogenetic modulation positively affects microglial reactivity and brain development in a mouse model of neonatal inflammation.
Marit Knoop (Geneva, Switzerland) |
| 4:43 pm | T16-016A | Senescent Neural Stem Cells as Disease Pacemakers in Progressive Multiple Sclerosis
Alexandra Nicaise (Cambridge, UK) |
| 4:44 pm | T16-017A | DNA Damage-Associated Pathological Mechanisms in Progressive Multiple Sclerosis
Pranathi Prasad (Cambridge, UK) |
| 4:45 pm | T16-018A | Human microglia incorporated into retinal organoids contribute to viral mediated inflammation and impact neuronal activity.
Verena Hübschmann (Klosterneuburg, Austria) |
| 4:46 pm | T16-019A | <i>Investigating the effect of peripheral immune cytokines on astrocyte reactivity in Parkinson's disease</i>
Adina N. MacMahon Copas (Dublin, Ireland) |
| 4:47 pm | T16-020A | Is TGFβ-1-signaling required for Nrf2-antioxidant pathway activation in a murine model of multiple sclerosis?
Coram Guevara Sánchez (Santiago, Chile) |
| 4:48 pm | T16-021A | An improved protocol yielding 'iPS-microglia' that faithfully recapitulate primary human microglia function and phenotype
Marie-France Dorion (Montreal, Canada) |
| 4:49 pm | T16-022A | Overexpression of the plasmalemmal Ca ²⁺ pump hPMCA2 in microglia attenuates intracellular calcium signaling
Fan Zeng (Shenzhen, China) |
| 4:50 pm | T16-023A | In vivo imaging of oligodendrocyte injury in an NMO mouse model
Selin Kenet (Munich, Germany) |
| 4:51 pm | T16-024A | Changes in retinal macroglia over time in an experimental laser-induced glaucoma model.
Jose Antonio Fernandez-Albarral (MADRID, Spain) |



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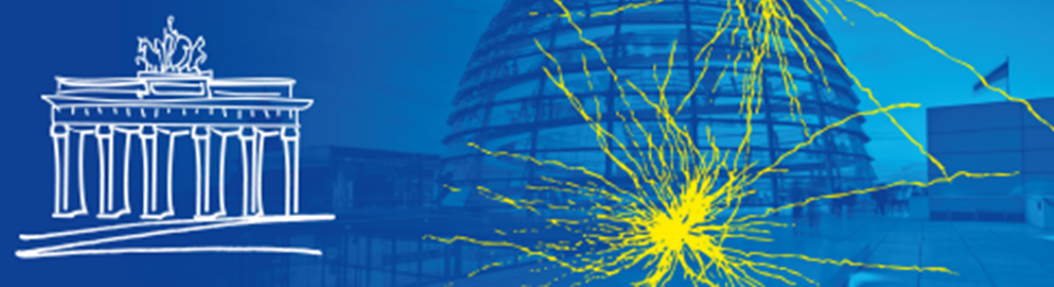


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| 4:52 pm | T16-025A | Micrometre-scale thickness-variation of an implanted brain electrode minimally impacts resultant astrogliosis and neuronal density loss.
Janne Töykkälä (Freiburg im Breisgau, Germany) |
| 4:53 pm | T16-026A | Glial changes in the retina of aged tauopathy mice after suppression of microglial Hemoxygenase-1 (HO-1)
Elena Salobar-Garcia (Alcorcon, Spain) |
| 4:54 pm | T16-027A | Comparison of brain damages between male and female in a model of encephalopathy of prematurity : study of a sexual dimorphism
Jennifer Hua (Paris, France) |
| 4:55 pm | T16-028A | The role of astrocytes in genetic epilepsies
Jenny Lange (London, UK) |
| 4:56 pm | T16-029A | Sitagliptin, a drug for type 2 diabetes, inhibits microglia reactivity triggered by exposure to lipopolysaccharide
António Francisco Ambrósio (Coimbra, Portugal) |
| 4:57 pm | T16-030A | A Non-canonical Mechanism of Complement 4-Driven Cortical Synaptic Loss
Alison Brack (Boston, USA) |
| 4:58 pm | T16-031A | Targeting the GPR17 receptor to counteract oligodendrocyte maturation failure during inflammation
Juliana Helena Castro e Silva (Milan, Italy) |
| 4:59 pm | T16-032A | Investigating microglial miRNAs as novel pro-remyelination therapeutics in multiple sclerosis
Sarrabeth Stone (Parkville, Australia) |
| 5:00 pm | T16-033A | Effects of microglia driven inflammation on glioblastoma cells
Urszula Hohmann (Halle (Saale), Germany) |
| 5:01 pm | T16-034A | <i>IN VIVO</i> MULTIMODAL IMAGING OF ADENOSINE A2A RECEPTORS IN NEUROINFLAMMATION AFTER EXPERIMENTAL STROKE
Maider Garbizu (Leioa, Spain) |
| 5:02 pm | T16-035A | Dissecting the role of mitochondrial dynamics in astrocyte reactivity
Abdulla Chihab (Cologne, Germany) |



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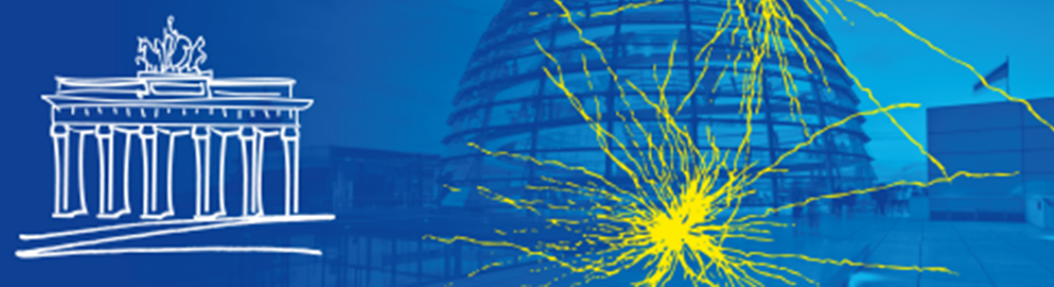


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| 5:03 pm | T16-036A | Cellular mechanisms of prolonged functional impairment after transient ischemic attacks
Gemma Llovera (Munich, Germany) |
| 5:04 pm | T16-037A | HCA2 receptors modulate inflammatory interactions of the skin-brain axis
Anne Albrecht (Magdeburg, Germany) |
| 5:05 pm | T16-038A | Adenosine exacerbates neuroinflammation via astrocytic A1 adenosine receptors
Qilin Guo (Homburg, Germany) |
| 5:06 pm | T16-039A | Sexual dimorphism of androgen effects upon demyelination of the central nervous system
Amina Zahaf (Kremlin-Bicêtre, France) |
| 5:07 pm | T16-040A | MS patient LY induce smoldering like demyelinating lesion in mouse spinal cord.
Océane Perrot (Paris, France) |
| 5:08 pm | T16-041A | NF-kB-mediated tolerance in a cellular model of neuroinflammation: implications for Parkinson's disease dopaminergic neurodegeneration
Irina Freitag Berenguel (Barcelona, Spain) |
| 5:09 pm | T16-042A | Influenza A virus (H1N1) infection induces microglia activation and temporal dysbalance in glutamatergic synaptic transmission
Henning P. Düsedau (Magdeburg, Germany) |
| 5:10 pm | T16-043A | Necrotizing enterocolitis promotes S100A9-induced activation of proinflammatory microglia
Line I. Christiansen (Frederiksberg, Denmark) |
| 5:11 pm | T16-044A | Reduced Sialylation Triggers Retinal Inflammation and Thinning of Photoreceptor Layer in Mice
German Cuevas Rios (Bonn, Germany) |
| 5:12 pm | T16-045A | A novel glial barrier structure of the choroid plexus: the <i>glia limitans perichoroidalis</i>
Sarah Joost (Rostock, Germany) |
| 5:13 pm | T16-046A | Bood-brain barrier integrity and sexual dimorphisms during macrophage invasion of the Drosophila nervous system
Dominik Funke (Münster, Germany) |



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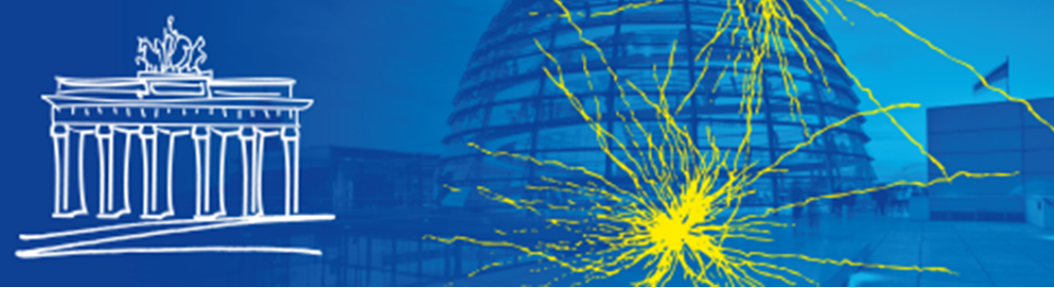


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| 5:14 pm | T16-047A | Bioassays to study concentration level, binding and anti-inflammatory activity of polysialic acid
Annemarie Bungartz (Bonn, Germany) |
| 5:15 pm | T16-048A | The Role of the NF- κ B-inducing Kinase in CX3CR1 Positive Cells During Experimental Autoimmune Encephalomyelitis
Nishada Ramphal (Mainz, Germany) |
| 5:16 pm | T16-049A | The role of Caspase 4 in anti-inflammatory effect of CB2R agonism during microglia-derived neuroinflammation.
Natalia Malek (Wroclaw, Poland) |
| 5:17 pm | T16-050A | Therapeutic effect of α 7 nicotinic receptor modulation after cerebral ischemia in rats
Laura Aguado (Leioa, Spain) |
| 5:18 pm | T16-051A | B cells regulate chronic CNS inflammation in an IL-10-dependent manner
Darius Häusler (Göttingen, Germany) |
| 5:19 pm | T16-052A | Role of TDP-43 in reactive transformation of astrocytes in human stem cell model
Doaa Taha (London, UK) |
| 5:20 pm | T16-053A | OPCs as gatekeepers of neuroinflammation
Sonia Cabeza Fernández (Alicante, Spain) |
| 5:21 pm | T16-054A | Microgliosis, astrogliosis and aquaporin-4 abnormality in frontal cortex of Covid-19 patients
Christian Lohr (Hamburg, Germany) |
| 5:22 pm | T16-055A | Modulation of microglia phenotype and function by type I interferons
Carme Solà (Barcelona, Spain) |
| 5:23 pm | T17-001A | A sexual dimorphic microglia response modulates visual cortex network activity after ketamine-anesthesia.
Alessandro Venturino (Klosterneuburg, Austria) |
| 5:24 pm | T17-002A | Effects of oral saffron on retinal glial cytokine expression in an experimental model of glaucoma
Rosa de Hoz (Madrid, Spain) |



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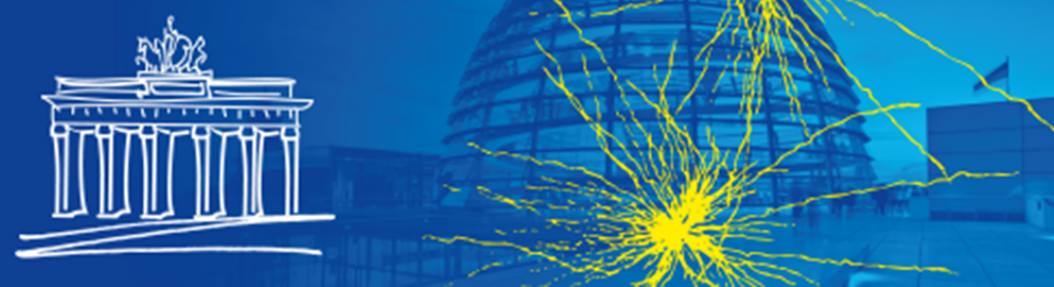


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| 5:25 pm | T17-003A | Investigating neuron-glia interactive effects in cortical neuron network changes in an iPSC model of 4H leukodystrophy
Liza M.L. Kok (Amsterdam, Netherlands) |
| 5:26 pm | T17-004A | Contribution of glial cells during action selection in Drosophila larvae
Amber Amrei Krebs (Münster, Germany) |
| 5:27 pm | T17-005A | Manipulating astrocytic activity as a gateway to modulate adult neuroplasticity
Maria João Pereira (Leuven, Belgium) |
| 5:28 pm | T17-006A | Astrocyte integration of histaminergic signals in a cortical circuit
Charlotte R. Taylor (San Francisco, USA) |
| 5:29 pm | T17-007A | Enhancement of astrocytic Glu/GABA exchange by multiple mechanisms is effective against convulsive and non-convulsive seizures.
Saif Qahtan (Budapest, Hungary) |
| 5:30 pm | T17-008A | Dopamine signaling in striatal astrocytes
Giulia Favetta (Padova, Italy) |
| 5:31 pm | T17-009A | Remote and Selective Control of Astrocytes by Magnetomechanical Stimulation
Yichao Yu (London, UK) |
| 5:32 pm | T19-001A | A multi-omic approach to study mitochondrial deficits in iPSC-derived astrocytes with a high polygenic risk for schizophrenia
Karen E. Laupman (Amsterdam, Netherlands) |
| 5:33 pm | T19-002A | Hippocampal astrocytes modulate anxiety-like behavior
Sung Joong Lee (Seoul, South Korea) |
| 5:34 pm | T19-003A | A maternal high-fat diet during pregnancy and lactation altered myelination and induced depressive-like phenotype in rat offspring
Irena Smaga-Ma?lanka (Kraków, Poland) |
| 5:35 pm | T19-004A | Aldolase C in the astrocytes emerges as a protein that may connect early life stress to depression
Giulia Treccani (Mainz, Germany) |



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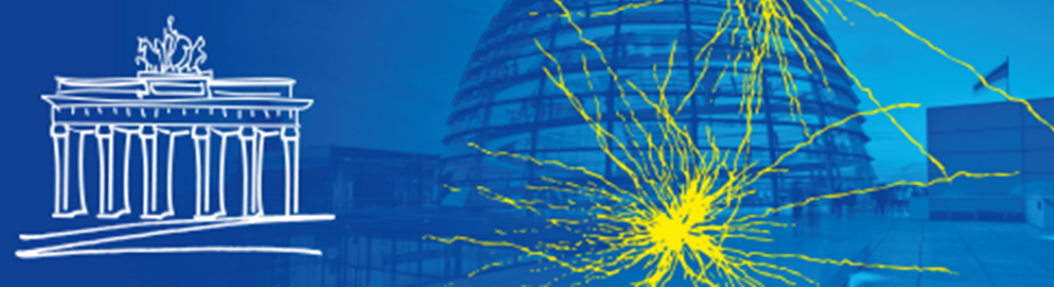


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| 5:36 pm | T19-005A | Microglia Display TREM2-Associated Deficits in Synaptic Engulfment in the Neuroligin-4 Knock-Out Mouse Model of Autism
Bilge Ugursu (Berlin, Germany) |
| 5:37 pm | T19-006A | Pathological oligodendrocyte precursor cells revealed in human schizophrenic brains and trigger schizophrenia-like behaviors and synaptic defects in genetic animal model
Jianqin Niu (Chongqing, China) |
| 5:38 pm | T19-007A | Astrocytic EAAT2 in Basolateral Amygdala Regulates Stress-Induced Anxiety-like Behavior
Qian Xiao (Shenzhen, China) |
| 5:39 pm | T19-008A | Early life adversity and the impact of glucocorticoids on NG2-glia: a potential mechanism for stress-related psychiatric disorders
Lorenzo Mattioni (Mainz, Germany) |
| 5:40 pm | T19-009A | Food restriction in mice induces circadian rhythm-related activity changes and glial cell alterations in the corpus callosum and hypothalamus
Linda Frintrop (Rostock, Germany) |
| 5:41 pm | T19-010A | 3D co-culture platform to study myelination deficits in schizophrenia using hiPSC-derived neurons and oligodendrocyte lineage cells
Martina von der Bey (Heidelberg, Germany) |
| 5:42 pm | T19-011A | Transcriptomic analysis of human brain nuclei to investigate hypomyelination pathology in schizophrenia
Janina Nadine Breining (Heidelberg, Germany) |
| 5:43 pm | T19-012A | The Role of Astrocytes in Postnatal Synaptic Refinement of the Medial Prefrontal Cortex
Johanna Furrer (Zürich, Switzerland) |
| 5:44 pm | T20-001A | Clearance of Senescent-Like Microglia Improves Remyelination in Young and Aged Mice
Phillip S. Gross (Washington DC, USA) |
| 5:45 pm | T20-002A | Control chromatin remodelling enzymes in Schwann cells to improve peripheral nerve regeneration
Nadège Hertzog (Mainz, Germany) |
| 5:46 pm | T20-003A | Learning from Schwann cells, modulating gene expression in Oligodendrocytes after injury
Gianluigi Nocera (Mainz, Germany) |



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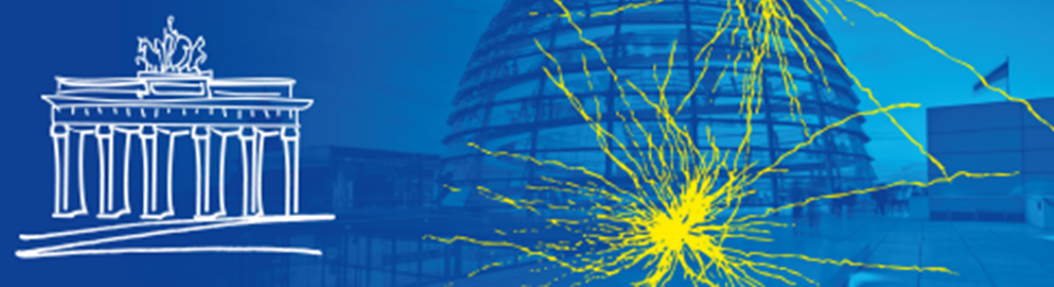


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|---------|----------|--|
| 5:47 pm | T20-004A | The small intestine submucosa with high glial cell line-derived neurotrophic factor loading capacity enhanced Schwann cell proliferation after neurorrhaphy.
Wen Chieh Liao (Taichung, Taiwan) |
| 5:48 pm | T20-005A | NG2 cells mediate cannabinoid-induced functional recovery following demyelination
Javier Palazuelos (Madrid, Spain) |
| 5:49 pm | T20-006A | Characterization of Macroglia Response in an Experimental Retina Laser Model
Volker Enzmann (Bern, Switzerland) |
| 5:50 pm | T20-007A | Highly oriented nanofibers override barrier-forming Schwann cell-astrocyte interfaces and enable neuritic outgrowth into the astrocytic compartment <i>in vitro</i>
Pascal Achenbach (Aachen, Germany) |
| 5:51 pm | T20-008A | White matter myelin regeneration is regulated in the grey matter
Omar de Faria Jr. (Cambridge, UK) |
| 5:52 pm | T20-009A | Microglia regulate OPC recruitment and differentiation during remyelination
Charbel S. Baaklini (Edmonton, Canada) |
| 5:53 pm | T20-010A | Peripheral glia inhibit sensory nerve regeneration following central branch axotomy
Robin I. Brown (Charlottesville, USA) |
| 5:54 pm | T20-011A | The TAM receptor Tyro3 is critical for the promotion of remyelination by GAS6
Michele D. Binder (Parkville, Australia) |
| 5:55 pm | T20-012A | Innate immune training in remyelination
Vini Tiwari (Munich, Germany) |
| 5:56 pm | T20-013A | The neuropeptide CRH influences oligodendrocyte progenitor cell differentiation after acute brain injury in a CRHR1-dependent manner
Clemens Ries (Munich, Germany) |
| 5:57 pm | T20-014A | Teriflunomide promotes myelin repair <i>in vivo</i>
Peter Goettle (Düsseldorf, Germany) |



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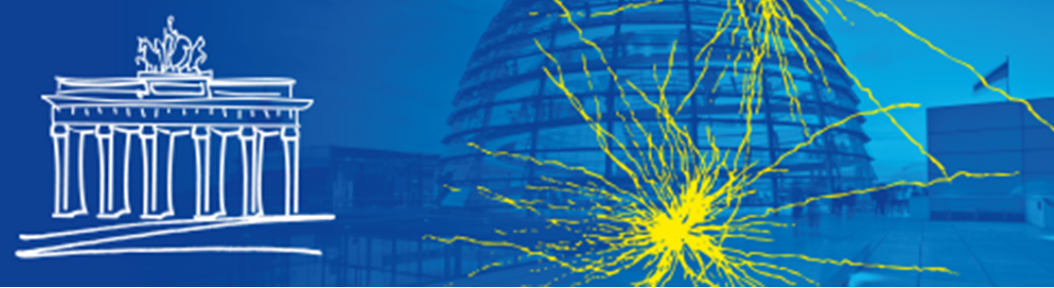


5:58 pm	T20-015A	Intranasal delivery enteric glia promotes angiogenesis and neurogenesis in a rat model of brain injury Nina Colitti (TOULOUSE, France)
5:59 pm	T20-016A	Generating human adult oligodendroglia to screen for compounds to enhance remyelination Laura J. Wagstaff (Edinburgh, UK)
6:00 pm	T22-001A	Ethanol activates hemichannels and pannexons with negative repercussions for astroglial function Juan A. Orellana (Santiago, Chile)
6:01 pm	T22-002A	The role of P/Q-type calcium channels in oligodendrocyte development Melanie Piller (Portland, USA)
6:02 pm	T22-003A	Modulating oligodendrocyte precursor cell states Yasmine Kamen (Cambridge, UK)
6:03 pm	T22-004A	Ablation of microglial Connexin43 alleviates the cognition decline and neuronal malfunction in a model of Alzheimer's disease Yixun Su (Shenzhen, China)
6:04 pm	T22-005A	Mitochondrial trafficking in primary microglia cells is influenced by the TRPV4 ion channel Andreea E. Burlacu (Hasselt, Belgium)
6:05 pm	T24-001A	SorLA impacts pro-tumorigenic properties of microglia during glioblastoma progression Paulina Kaminska (Warsaw, Poland)
6:06 pm	T24-002A	Investigating the evolution of neuron-glioma circuit dynamics using an in vivo imaging method Kiarash Shamardani (Stanford, USA)
6:07 pm	T24-003A	Heterogeneity and plasticity of tumour associated astrocytes in murine gliomas as defined by immunohistochemistry and spatial transcriptomics Mitrajit Ghosh (Warsaw, Poland)
6:08 pm	T24-004A	An improved F98 rat glioma model for combinatorial approaches incorporating the standard therapy for glioblastoma Velislava Zoteva (Gent, Belgium)



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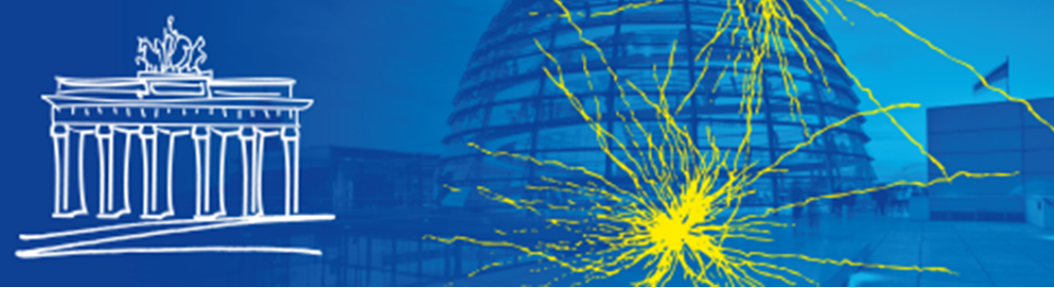


6:09 pm	T24-005A	GABAergic neuron-to-glioma synapses in diffuse midline gliomas Tara Barron (Stanford, USA)
6:10 pm	T24-006A	S1P Receptor 1 on Glioma-Associated Astrocytes Regulates Tumor Growth and Progression Alexandra Gonsiewski (Richmond, USA)
6:11 pm	T24-007A	Trem2 promotes glioma progression and angiogenesis mediated by microglia/brain macrophages Xianyuan Xiang (Shenzhen, China)
6:12 pm	T24-008A	Spatially resolved transcriptomics for the study of horizontal transfer of mitochondria in a mouse model of glioblastoma Ondřej Vašítko (Prague, Czech Republic)
6:13 pm	T24-009A	STAT3-mediated astrocytic reactivity in glioblastoma multiforme Paula Martínez Remedios (Barcelona, Spain)
6:14 pm	T24-010A	Schwann cell plasticity contributes to axonal remodeling during pancreatic cancer progression. Martha Montserrat Rangel Sosa (Marseille, France)
6:15 pm	T24-011A	Astrocytic Reprogramming Impairs Human Glioblastoma Growth <i>In Vitro</i> and <i>In Vivo</i> Francesco Trovato (Lund, Sweden)
6:16 pm	T24-012A	Low doses Decitabine-induced anti-tumor effects are dependent on TRAIL-TRAIL receptor signal induction Eun Jeong Lee (Suwon, South Korea)
6:17 pm	T25-001A	The use of astrocytes for in vitro diagnostics of neuroinflammatory diseases Pavle Andjus ()
6:18 pm	T25-002A	Astrocytic calcium and ROS as a trigger of carbon monoxide-induced brain damage Plamena Angelova ()
6:19 pm	T25-003A	Investigating the role of large microglial extracellular vesicles carrying pathogenic misfolded proteins in Alzheimer's disease and their interaction with neurons Elisabetta Battocchio ()

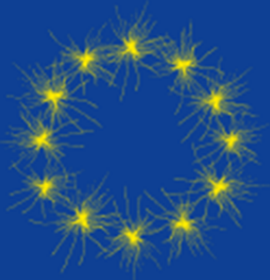


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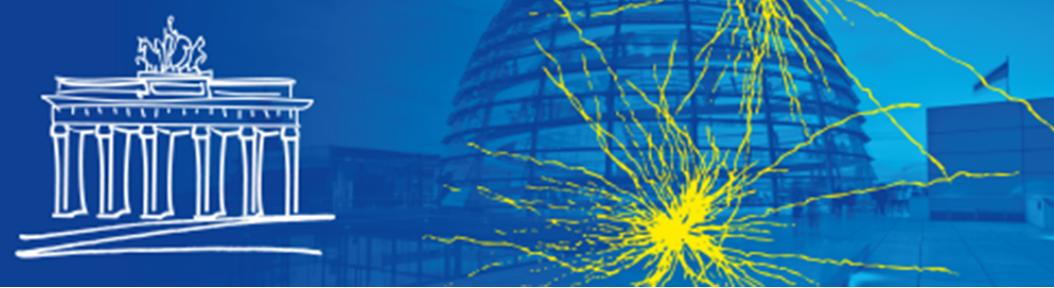


6:20 pm	T25-004A	Müller cell-specific TSPO is beneficial for preservation of retinal function and macroglial metabolism in response to transient ischaemia Oliver Bludau ()
6:21 pm	T25-005A	Chemogenetic modulation of microglia in the intrahippocampal kainic acid mouse model of temporal lobe epilepsy Jo Bossuyt ()
6:22 pm	T25-006A	Effects of the novel sodium channel blocker GS967 on microglia Julia Brauer ()
6:23 pm	T25-007A	Astroglial Cx30 shapes structural remodeling during visual critical period Rachel Breton ()
6:24 pm	T25-008A	Silencing neuroinflammatory reactive astrocyte activating factors ameliorates disease outcomes in perinatal white matter injury Amanda Brosius Lutz ()
6:25 pm	T25-009A	Krabbe disease: a pre-clinical study of nanoparticle-based enzyme replacement therapy in the twitcher mouse Sara Carpi ()
6:26 pm	T25-010A	Myelin Development in the Peripheral Nervous System of <i>Trachemis scripta elegans</i> Maria Elena de Bellard ()
6:27 pm	T25-011A	Cultured astrocytes establish and maintain an almost constant extracellular concentration of pyruvate Nadine Denker ()
6:28 pm	T25-012A	Investigating the Physiology of Oligodendrocytes in X-Adrenoleukodystrophy Xiangyi Du ()
6:29 pm	T25-013A	The bone transcription factor Osterix controls extracellular matrix and node of Ranvier related gene expression in oligodendrocytes Benayahu Elbaz ()
6:30 pm	T25-014A	The antiseizure medication valproate increases the activity of hemichannels, leading to reactive gliosis that can be reversed by Boldo Claudia García-Rodríguez ()

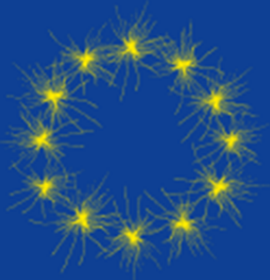


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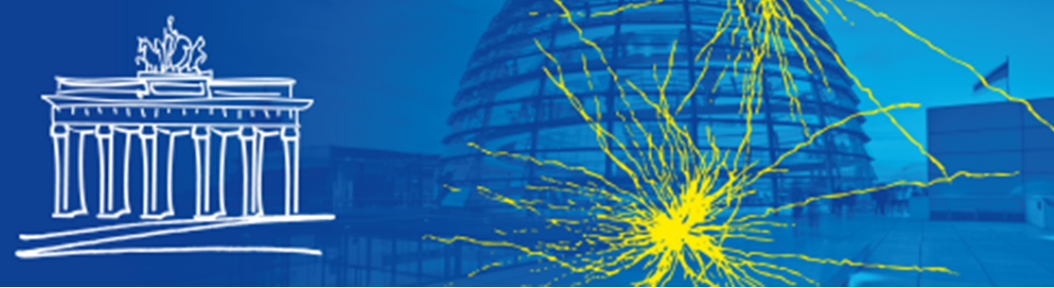
Berlin | July 8–11, 2023



6:31 pm	T25-015A	Inhibition of PAR 1 as a Novel Treatment for Diabetic Retinopathy Zehavit Goldberg ()
6:32 pm	T25-016A	Targeting the TREM2 pathway in Alzheimer's disease Katerina Gospodinova ()
6:33 pm	T25-017A	The role of Ms4a6 genes in neuroimmune regulation of Alzheimer's Disease Dilansu Guneykaya Cinar ()
6:34 pm	T25-018A	Glia-to-neuron interaction in the spinal cord dorsal horn through astrocytes-derived miRNA plays an important role in HIV-related neuropathic pain: A preliminary study. Shuanglin Hao ()
6:35 pm	T25-019A	Microglial local translation in response to Alzheimer's disease hallmarks. Josune Imaz-Iruretagoyena ()
6:36 pm	T25-020A	Microelectrode Arrays for Electrophysiology of Astrocyte Lineage Cells Misaki Inaoka ()



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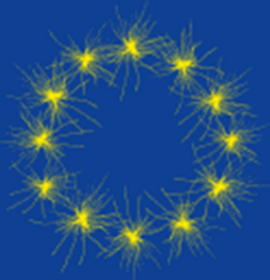
Saturday, 8 July, 2023, 4:30 p.m. - 6:30 p.m.

S01 | Multiomic analysis of glia-mediated regeneration

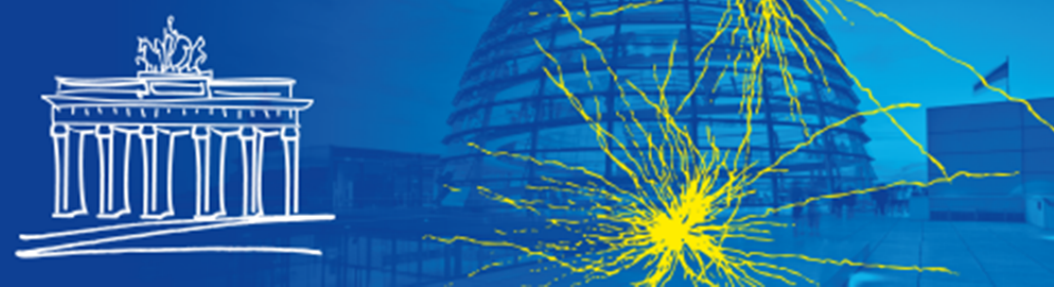
Chairs: **Enric Llorens-Bobadilla** (Stockholm, Sweden); **Seth Blackshaw** (Baltimore, USA)

Presentations:

- | | | |
|---------|--------|--|
| 4:30 pm | S01-01 | The latent potential of mammalian neural stem cells to regenerate the injured spinal cord
Enric Llorens-Bobadilla (Stockholm, Sweden) |
| 5:00 pm | S01-02 | The unique regenerative state of spinal progenitors
Catherina G. Becker (Dresden, Germany) |
| 5:30 pm | S01-03 | Gene regulatory networks controlling neurogenic competence and cell fate specification in zebrafish and mammalian Müller glia.
Seth Blackshaw (Baltimore, USA) |
| 6:00 pm | S01-04 | Understanding the gene regulatory program underlying the remarkable regeneration seen in salamanders
Elly Tanaka (Vienna, Austria) |



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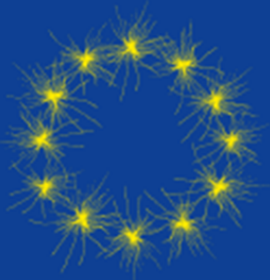
Saturday, 8 July, 2023, 4:30 p.m. - 6:30 p.m.

S02 | Building the nervous system: critical roles for microglia prior to pruning

Chairs:

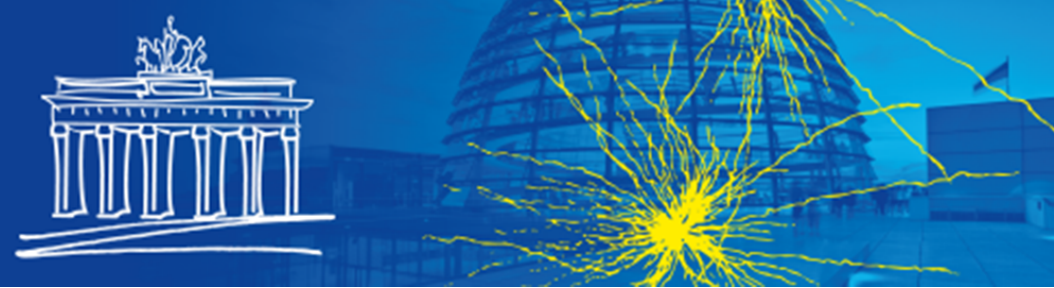
Presentations:

- | | | |
|---------|--------|---|
| 4:30 pm | S02-01 | Microglial support of synaptic development in the nucleus accumbens
Lindsay De Biase (Los Angeles, USA) |
| 5:00 pm | S02-02 | Early invaders of the brain: embryonic colonization and functions of microglia
Morgane S. Thion (Paris, France) |
| 5:30 pm | S02-03 | Microglia Regulate Chandelier Cell Axo-axonic Synaptogenesis
Linda Van Aelst (Cold Spring Harbor, USA) |
| 6:00 pm | S02-04 | Cross-talk of CNS macrophages and vasculature during development and homeostasis
Annika Keller (Schlieren, Switzerland) |



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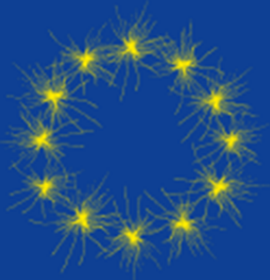
Saturday, 8 July, 2023, 4:30 p.m. - 6:30 p.m.

S03 | Astrocyte diversity drives specificity in the making, regulation and dysfunction of brain circuits

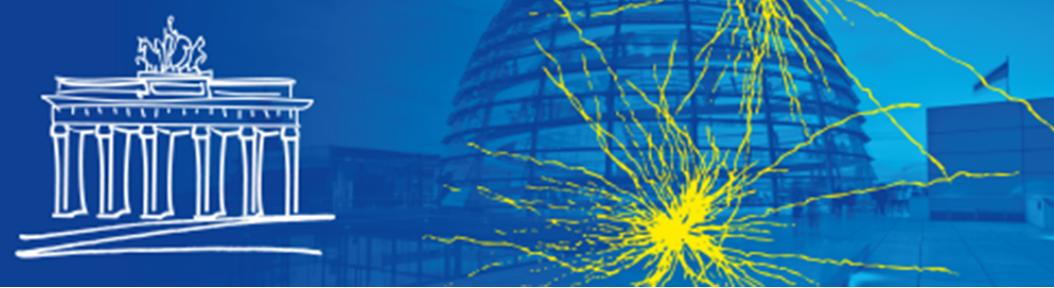
Chairs: **Andrea Volterra** (Geneva, Switzerland)

Presentations:

- | | | |
|---------|--------|--|
| 4:30 pm | S03-01 | Regulation of heterogeneous gene expression in astrocytes and synapse development by neuronal and astrocyte activity.
Isabella Farhy-Tselnicker (College Station, USA) |
| 5:00 pm | S03-02 | Astrocyte diversity: the adult dentate gyrus is populated by layer-specific astrocyte subtypes
Ruth Beckervordersandforth (Erlangen, Germany) |
| 5:30 pm | S03-03 | A specialized sub-population of astrocytes with glutamate-secreting properties in hippocampus
Andrea Volterra (Lausanne, Switzerland) |
| 6:00 pm | S03-04 | Tracking astrocyte dynamics along Alzheimer's disease and aging: One cell at a time
Naomi Habib (Jerusalem, Israel) |



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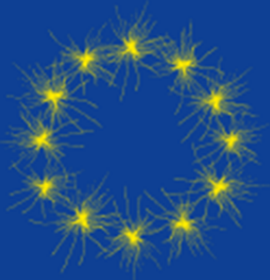
Saturday, 8 July, 2023, 4:30 p.m. - 6:30 p.m.

S04 | Glial cells of the gut: from neural stem cells to regulators of homeostasis

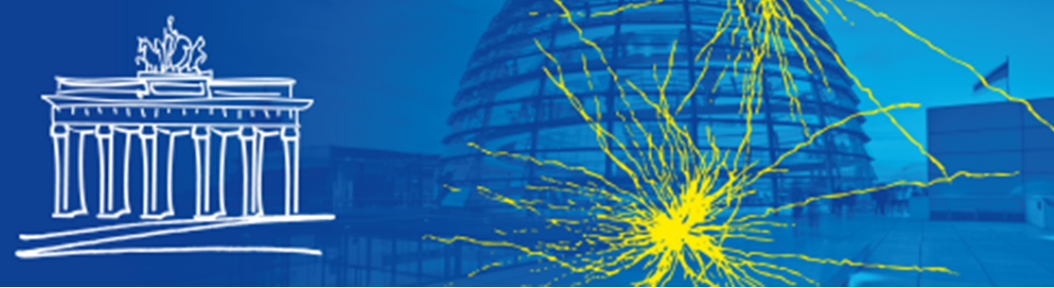
Chairs: **Werend Boesmans** (Diepenbeek, Belgium); **Carla Cirillo** (Toulouse, France)

Presentations:

- | | | |
|---------|--------|---|
| 4:30 pm | S04-01 | Understanding the regulation of enteric glia status
Werend Boesmans (Diepenbeek, Belgium) |
| 5:00 pm | S04-02 | Enteric glial cells: From neurogenic past to immunoregulatory present, and back
Vassilis Pachnis (London, UK) |
| 5:30 pm | S04-03 | Neuron-glia interactions at the gut mucosal interface
Meenakshi Rao (Boston, USA) |
| 6:00 pm | S04-04 | Glia cells of the gut: promising candidates for cell-based therapy
Carla Cirillo (Toulouse, France) |



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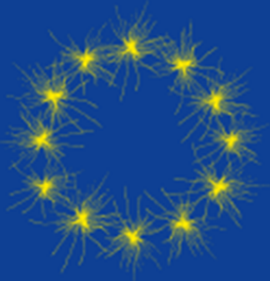
Saturday, 8 July, 2023, 4:30 p.m. - 6:30 p.m.

S05 | Regulation of neuroinflammation in CNS remyelination

Chairs: **Jeffrey Huang** (Washington, USA); **Tara DeSilva** (Cleveland, USA)

Presentations:

- | | | |
|---------|--------|---|
| 4:30 pm | S05-01 | Improving CNS remyelination by inhibiting amino acid transport in inflammatory microglia
Jeffrey K. Huang (Washington, DC, USA) |
| 5:00 pm | S05-02 | Innate and adaptive immune mechanisms in myelin regeneration
Yvonne Dombrowski (Belfast, UK) |
| 5:30 pm | S05-03 | Microglia-mediated mechanisms of myelination
Tara M. DeSilva (Cleveland, USA) |
| 6:00 pm | S05-04 | Dynamics of Remyelination in a Nonhuman Primate Model of Multiple Sclerosis
Daniel S. Reich (Bethesda, USA) |



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Saturday, 8 July, 2023, 7:00 p.m. - 8:00 p.m.

L02 | Plenary Lecture II: Michael Wegner

Chairs: **Leda Dimou** (Munich, Germany)

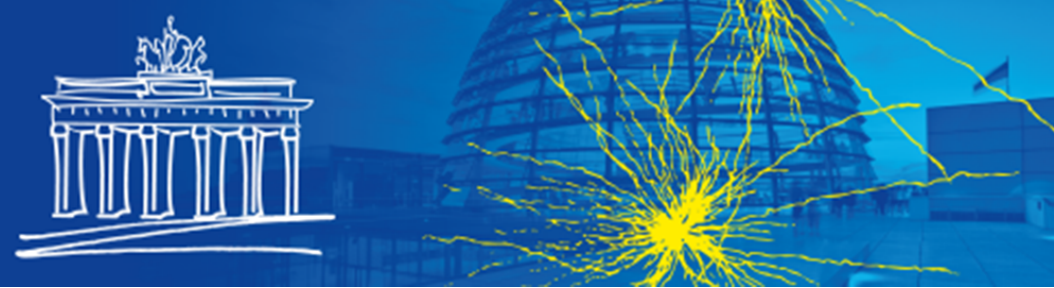
Presentations:

7:00 pm L02-01 Awarding of Journal Brain Sciences Stipends

7:05 pm L02-02 Organizing and adapting the gene regulatory network in myelinating glia
Michael Wegner (Erlangen, Germany)



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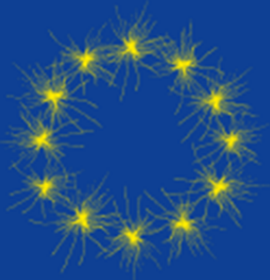


Saturday, 8 July, 2023, 8:00 p.m. - 9:00 p.m.

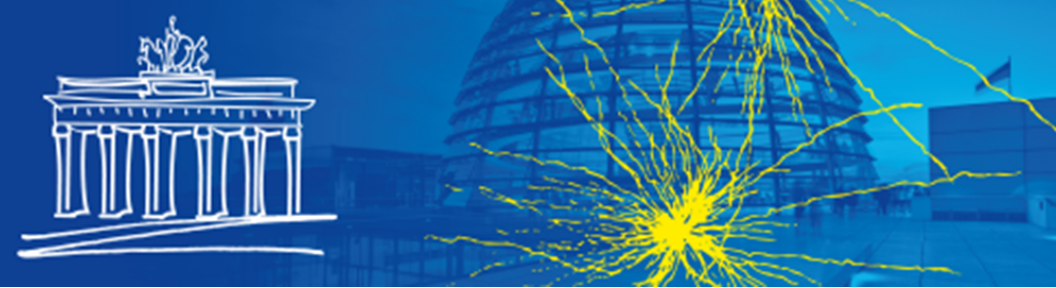
| **Welcome Reception**

Chairs:

Presentations:



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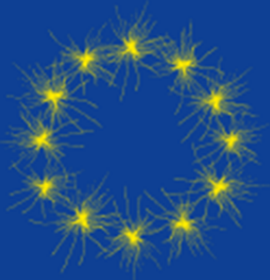
Sunday, 9 July, 2023, 8:30 a.m. - 9:30 a.m.

L03 | Plenary Lecture III: Marc Freeman

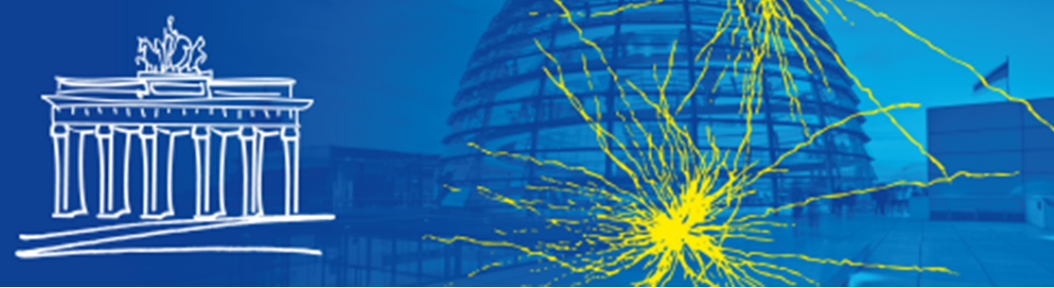
Chairs: **Carla Taveggia** (Milan, Italy)

Presentations:

8:30 am L03-01 Neuron-glia signaling during neuronal remodeling
Marc Freeman (Portland, OR, USA)



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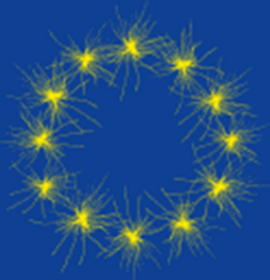
Sunday, 9 July, 2023, 10:00 a.m. - 12:00 p.m.

S06 | How microglia sense and regulate neuronal activity

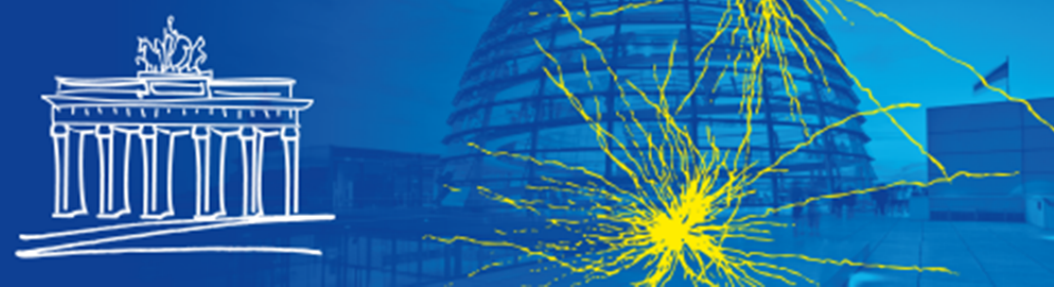
Chairs: **Long-Jun Wu** (Rochester, USA)

Presentations:

- | | | |
|----------|--------|---|
| 10:00 am | S06-01 | Dopamine-mediated control of microglia-neuron interaction and function
Hayley Strasburger (New York City, USA) |
| 10:30 am | S06-02 | Microglia process dynamics: synapse formation, neuronal activity and local synchronization.
Junichi Nabekura (Okazaki, Japan) |
| 11:00 am | S06-03 | Neuron-microglia communication via neurotransmitters
Marcus Sementner (Berlin, Germany) |
| 11:30 am | S06-04 | Microglia sense and regulate neuronal activity through adrenergic mechanisms
Long-Jun Wu (Rochester, USA) |



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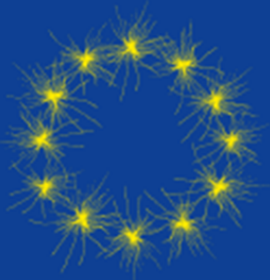
Sunday, 9 July, 2023, 10:00 a.m. - 12:00 p.m.

S07 | Using non-mammalian models to uncover fundamental roles of glia in circuit development

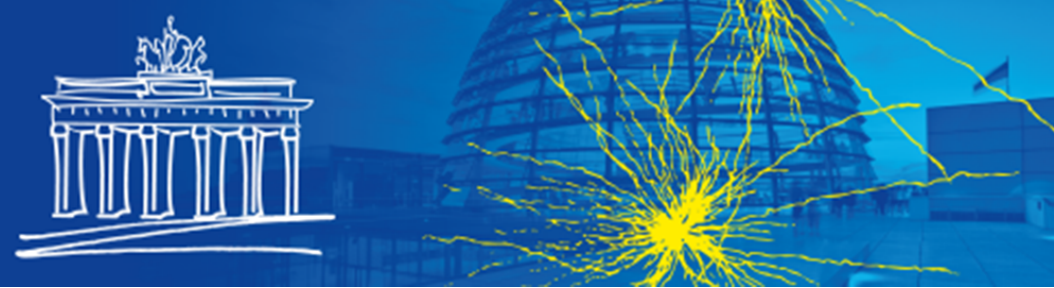
Chairs: **Sarah Ackerman** (Saint Louis, USA); **Vilaiwan Fernandes** (London, UK)

Presentations:

- | | | |
|----------|--------|--|
| 10:00 am | S07-01 | How Oligodendrocyte Precursor Cells Shape the Form and Function of Neural Circuits
Tim Czopka (Edinburgh, UK) |
| 10:30 am | S07-02 | Mechanistic insights into glial heterogeneity and glia-neuron interactions in <i>C. elegans</i> .
Aakanksha Singhvi (Seattle, USA) |
| 11:00 am | S07-03 | ADrosophilaglial cell atlas reveals that transcriptionally defined cell types can be morphologically diverse
Vilaiwan Fernandes (London, UK) |
| 11:30 am | S07-04 | Astrocytes set the timer for critical period plasticity
Sarah D. Ackerman (Saint Louis, USA) |



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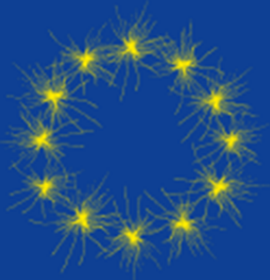
Sunday, 9 July, 2023, 10:00 a.m. - 12:00 p.m.

S08 | Molecular and cellular regulation of myelination throughout life (Special Trainee symposium)

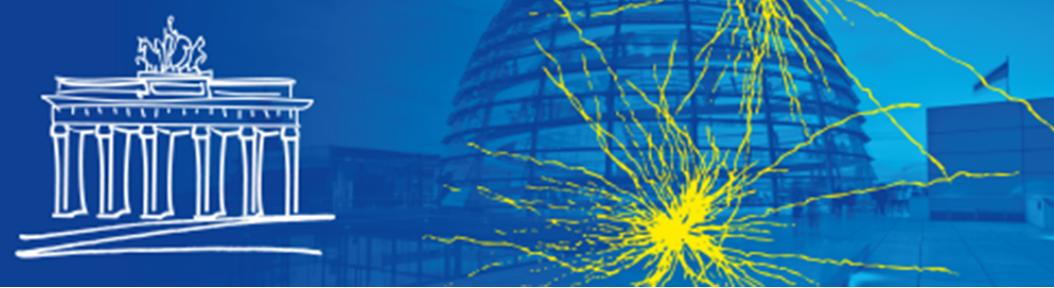
Chairs: **Noémie Adès** (PARIS, France); **Michael Thornton** (Aurora, USA)

Presentations:

- | | | |
|----------|--------|---|
| 10:00 am | S08-01 | Spatial cellular dynamics of lesion development and progression in a mouse model of multiple sclerosis
Petra Kukanja (Solna, Sweden) |
| 10:20 am | S08-02 | Longitudinal <i>in vivo</i> three-photon imaging reveals region-specific differences in healthy and regenerative oligodendrogenesis
Michael A. Thornton (Aurora, USA) |
| 10:40 am | S08-03 | Metabotropic glutamate receptors sense neuronal signals and mediate activity-driven myelination in zebrafish
Philipp Braaker (Edinburgh, UK) |
| 11:00 am | S08-04 | PAK1 inactivation triggers myelin formation through actin disassembly in oligodendrocytes
Noémie Adès (PARIS, France) |
| 11:20 am | S08-05 | Myelin accuracy requires calcium-regulated actin steering
Manasi Iyer (Stanford, USA) |



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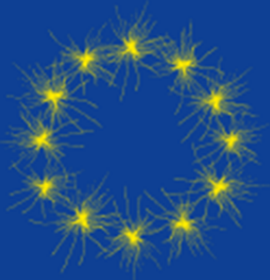
Sunday, 9 July, 2023, 10:00 a.m. - 12:00 p.m.

S09 | Mechanisms of glia-neuron crosstalk maintaining neural homeostasis

Chairs: **Aiman Saab** (Zurich, Switzerland)

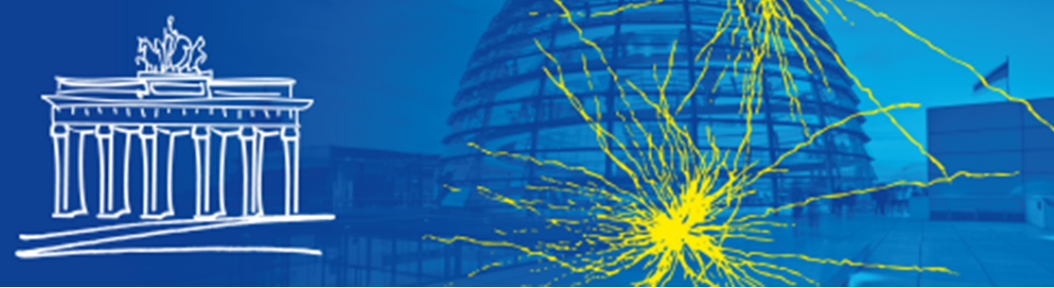
Presentations:

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|----------|--------|--|
| 10:00 am | S09-01 | Impact of the metabolic shape of astrocytes on neuronal function and animal behavior
Juan P Bolanos (Salamanca, Spain) |
| 10:30 am | S09-02 | Endogenous Protective Mechanisms of the Astrocyte Connectome
Melissa L. Cooper (New York, USA) |
| 11:00 am | S09-03 | Myelin's highway to the glial-axonal junction
Julia M. Edgar (Glasgow, UK) |
| 11:30 am | S09-04 | Oligodendrocyte functions shape axonal energy metabolism
Aiman S. Saab (Zurich, Switzerland) |



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Sunday, 9 July, 2023, 10:00 a.m. - 12:00 p.m.

S10 | Do astrocytes really regulate cerebral blood flow?

Chairs: **Alexander Gourine** (London, UK); **Jessica Filosa** (Augsuta, USA)

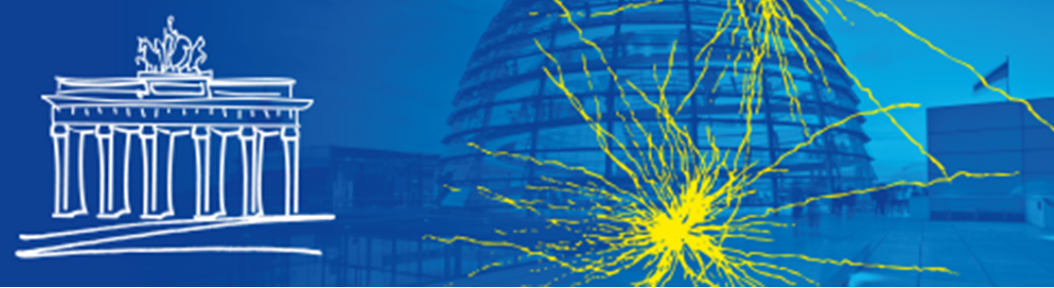
Presentations:

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|----------|--------|--|
| 10:00 am | S10-01 | Astrocyte regulation of neurovascular coupling in health and disease
Anusha Mishra (Portland, USA) |
| 10:30 am | S10-02 | Astrocyte calcium contributes to specific types of cerebral blood flow regulation
Grant R. Gordon (Calgary, Canada) |
| 11:00 am | S10-03 | <i>In vivo</i> pressure-evoked astrocyte calcium increases in a mouse model of high blood pressure variability.
Jessica A. Filosa (Augsuta, USA) |
| 11:30 am | S10-04 | Astrocytes and regulation of cerebral blood flow during brain hypoxia
Alexander Gourine (London, UK) |



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Sunday, 9 July, 2023, 1:00 p.m. - 4:00 p.m.

PS2 | Poster Session II

Chairs:

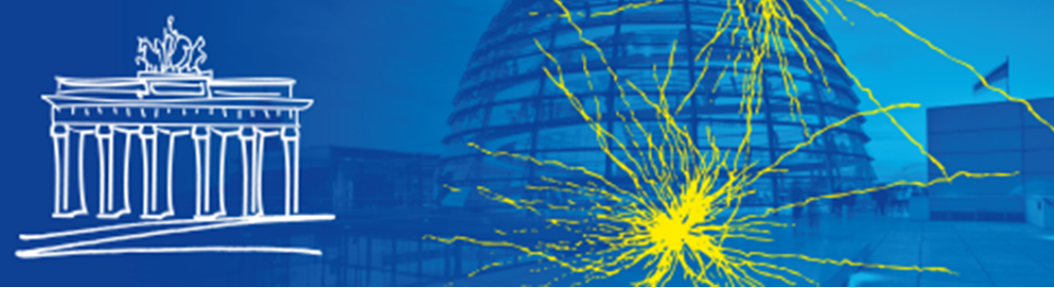
Presentations:

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|---------|----------|---|
| 1:00 pm | T02-011B | Exploring the role of the NG2 glia-specific receptor GPR17 in the context of aging
Lea Jäger (Ulm, Germany) |
| 1:01 pm | T02-012B | Harnessing the power of movement: exploring the effects of voluntary physical activity on glial cell function and oligodendrogenesis in the aging brain
Aladdin Skaf (Ulm, Germany) |
| 1:02 pm | T02-013B | Generation of oligodendrocytes-enriched 3D human brain organoids for the study of Globoid Cell Leukodystrophy
Elisabeth Mangiameli (Milan, Italy) |
| 1:03 pm | T02-014B | Activated caspase-3 is not an exclusive apoptotic marker in the spinal cord: a comprehensive study of the activated caspase-3 ⁺ population of cells in rat spinal cord
Radovan Holota (Košice, Slovakia) |
| 1:04 pm | T02-015B | PKD1 regulates astrocyte maturation and mitochondrial biogenesis
Luis Sánchez-Miranda Pajuelo (Madrid, Spain) |
| 1:05 pm | T02-016B | Spatio-temporal recruitment of adult neural stem cells during pregnancy for transient neurogenesis
Zayna Chaker (Basel, Switzerland) |
| 1:06 pm | T02-017B | Improved functional properties of microglia-like cells derived from trained precursors
Mihaela Guranda (Göttingen, Germany) |
| 1:07 pm | T02-018B | Monocyte-derived microglia-like cells – A human model to replace mouse primary microglia?
Johannes Wurm (Bielefeld, Germany) |



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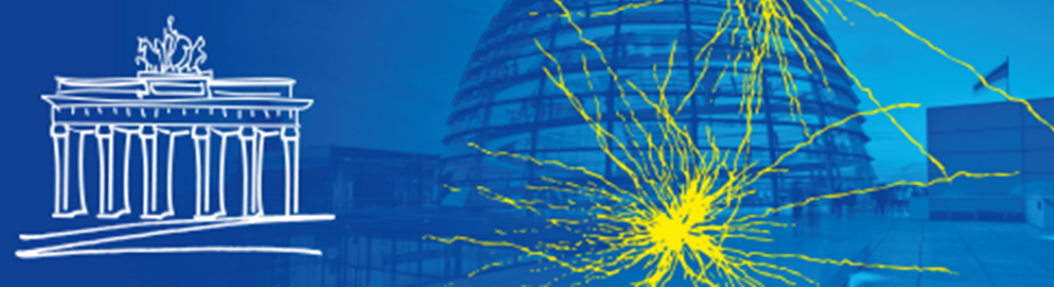


1:08 pm	T02-019B	STIMULATION OF ASTROCYTES IN THE NEUROGENIC NICHE OF THE DENTATE GYRUS Thibault Sprenger (Prilly, Switzerland)
1:09 pm	T02-020B	Human induced pluripotent stem cell-derived microglia-like cells to investigate therapeutic strategies targeting multiple sclerosis progression Alica Blenkle (Göttingen, Germany)
1:10 pm	T03-011B	Palmitic acid drives Müller glial cells pro-inflammatory and metabolic switch in a diabetic retinopathy model Remi Karadayi (Paris, France)
1:11 pm	T03-012B	Extracellular vesicle signaling and its effects on Schwann cells in a regenerative setting Maximilian Haertinger (Vienna, Austria)
1:12 pm	T03-013B	Cdc42 orchestrates microglial signaling and morphological plasticity Joana Tedim-Moreira (Porto, Portugal)
1:13 pm	T03-014B	Lysophosphatidic acid signaling via LPA ₆ : a negative modulator of oligodendrocyte maturation. Babette Fuss (Richmond, Virginia, USA)
1:14 pm	T03-015B	Exploring the neuroprotective mechanisms of astrocyte-derived extracellular vesicles in the context of Parkinson's disease Greta Paternò (Catania, Italy)
1:15 pm	T03-016B	Enteric glial cells regulate T-cell activity in inflammatory bowel diseases. Marvin Bubeck (Erlangen, Germany)
1:16 pm	T03-017B	<i>Short term regulation of aqp4ex: from bioinformatic approach to in vitro study</i> Roberta Pati (Bari, Italy)
1:17 pm	T03-018B	Reconstruction of Bergmann glial morphology for whole-cell calcium simulations Laura Keto (Tampere, Finland)
1:18 pm	T03-019B	CaSCaDe: a toolbox for an automatic analysis of calcium signals from neural cells Khaleel Alhalaseh (Heidelberg, Germany)



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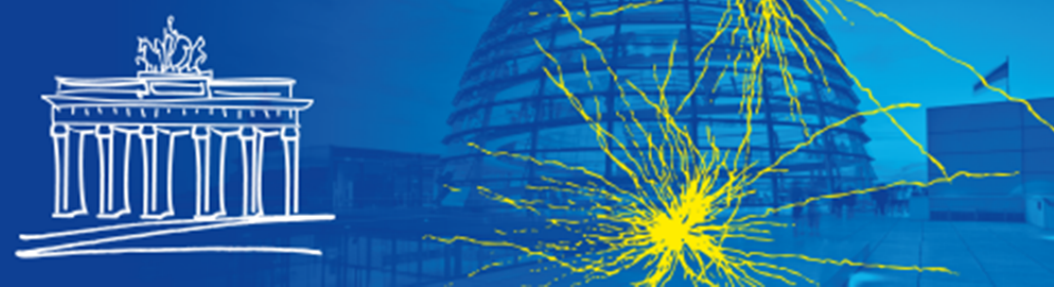


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| 1:19 pm | T03-020B | Computational tools to unravel mechanistic links between intracellular architecture and cell function
Audrey Denizot (Onna-son, Japan) |
| 1:20 pm | T04-001B | Star-shape: combining hiPSC modeling and bionengineering to probe the mechanobiology of astrocytes' shape-function dynamics
Ludovica Malu Guetta (London, UK) |
| 1:21 pm | T04-002B | The role of ADF/cofilin1 in microglia morphology and function
Marie Denise Roggan (Bonn, Germany) |
| 1:22 pm | T04-003B | Arp2/3 complex controls microglial cell dynamics and maturation
Shima Safaiyan (Freiburg, Germany) |
| 1:23 pm | T04-004B | Drosophila β_{Heavy} -Spectrin is required in polarized ensheathing glia that form a diffusion-barrier around the neuropil
Nicole Pogodalla (Münster, Germany) |
| 1:24 pm | T04-005B | Unraveling astrocyte dysfunction in the white matter disease MLC: linking the cytoskeleton to volume-regulated ion channels
Quinty Bisseling (Amsterdam, Netherlands) |
| 1:25 pm | T04-006B | Disrupted-In-Schizophrenia 1 controls microglial movement and phagocytosis
Sofie Kessels (Hasselt, Belgium) |
| 1:26 pm | T04-007B | Methamphetamine activates rac1 in striatal microglia
Ana F. Terceiro (Porto, Portugal) |
| 1:27 pm | T05-031B | miRNA depleted Müller glia show diminished gliosis and better retinal health after retinal damage
Daniel Larbi (New York, NY, USA) |
| 1:28 pm | T05-032B | Spatial multi-omic characterization of multiple sclerosis lesions
Yonglong Dang (Stockholm, Sweden) |
| 1:29 pm | T05-033B | Premature brain ageing, the aftermath of an early-life inflammatory event
David Guenoun (Paris, France) |



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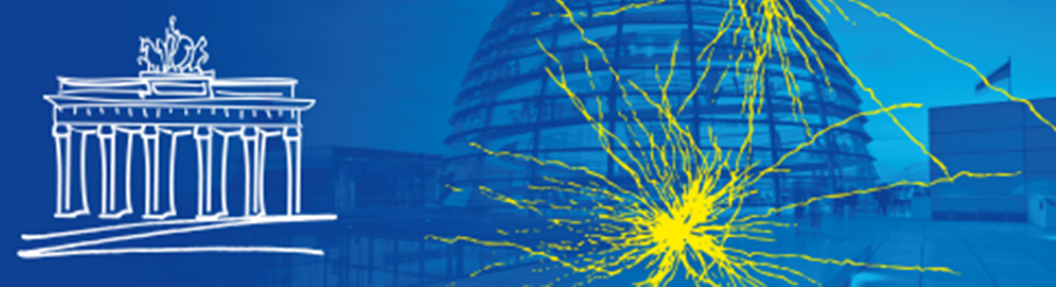


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| 1:30 pm | T05-034B | Human iPSC-based models unveil altered trafficking and processing of GALC mutant enzymes in Globoid cell leukodystrophy.
Clarissa Rosato (Milan, Italy) |
| 1:31 pm | T05-035B | Microglia ferroptosis contributes to neurodegeneration in an hiPSC-derived tri-culture
Sean Ryan (Cambridge, USA) |
| 1:32 pm | T05-036B | Cracking the code of amyotrophic lateral sclerosis (ALS): how astrocyte mutations affect the cross-talk with motor neurons
Benedetta Frizzi (Leuven, Belgium) |
| 1:33 pm | T05-037B | Identifying the function of novel genetic variants associated with multiple sclerosis development and progression
Jessica Fletcher (Hobart, Australia) |
| 1:34 pm | T05-038B | GFAP Upregulation by Astrocytes May Ameliorate Phospho-Tau Burden in a Tauopathy Mouse Model
Clara Muñoz-Castro (Boston, USA) |
| 1:35 pm | T05-039B | Ascorbate insufficiency disrupts glutamatergic neurotransmission recorded by surface electroencephalogram in a mouse model of Alzheimer's disease
Rebecca Buchanan (Nashville, USA) |
| 1:36 pm | T05-040B | Induction of plaque-like A β aggregates in human iPSC-derived mixed cell type neurospheres as a model to study A β -microglia interaction
Stefan Wendt (Vancouver, Canada) |
| 1:37 pm | T05-041B | Human neuron and astrocyte behaviour is affected by Dystrophin mutations
Reem R. Alkharji (London, UK) |
| 1:38 pm | T05-042B | Peripheral glial cells in late-onset spinal muscular atrophy – Schwann cells in focus
Markus Leo (Essen, Germany) |
| 1:39 pm | T05-043B | Subtle changes in cortical microglia and oligodendrocytes in a mouse model of amyotrophic lateral sclerosis.
Jana Tureckova (Prague, Czech Republic) |
| 1:40 pm | T05-044B | Astrocytes in focus: EAAT1-induced glutamate-toxicity plays a significant role in motor neuron degeneration in a late-onset spinal muscular atrophy mouse model
Linda-Isabell Schmitt (Essen, Germany) |



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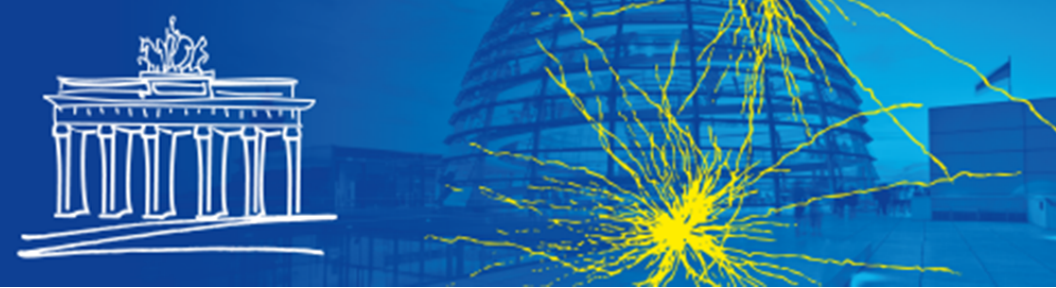


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| 1:41 pm | T05-045B | Evaluation of astrocytes morphological changes in tauopathies
Emma Augustin (Fontenay-aux-Roses, France) |
| 1:42 pm | T05-047B | CB ₂ receptor in glial cells as a new therapeutic target in amyotrophic lateral sclerosis and frontotemporal dementia.
Carmen Rodriguez-Cueto (MADRID, Spain) |
| 1:43 pm | T05-048B | Characterising functional effects of fibrinogen on TREM2-mutant human iPS-microglia
Emily Boorman (London, UK) |
| 1:44 pm | T05-049B | S100B protein plays a crucial role in astrocyte activation
Fabrizio Michetti (Rome, Italy) |
| 1:45 pm | T05-050B | Human iPSC derived Microglia model for Toxicology assays
János Farkas (Gödöllő, Hungary) |
| 1:46 pm | T05-051B | Identifying biomarkers for potential pathological mechanisms in neurological diseases
Paula Klassen (Ulm, Germany) |
| 1:47 pm | T05-052B | Polycaprolactone nanofiber substrates attenuate astrocyte reactivity following A1 stimulation
Gregory Thinnés (Aachen, Germany) |
| 1:48 pm | T05-053B | Phenotype changes of spinal cord microglia cells acutely purified from SOD1 ^{G93A} ALS mice during disease progression: focus on the genetic down regulation of mGlu5 receptor
Matilde Balbi (Genoa, Italy) |
| 1:49 pm | T05-054B | Astroglial GABA _B receptor deletion protects against γ -hydroxybutyric acid-induced absence seizures
Davide Gobbo (Homburg, Germany) |
| 1:50 pm | T05-055B | The Influence of TGF β signaling on the phagocytosis of amyloid beta species
Natascha Vidovic (Bielefeld, Germany) |
| 1:51 pm | T05-056B | Novel assay for the detection of serum-mediated astrocytopathy in neuromyelitis optica spectrum disorders based on human astrocytes
Marlen Alisch (Berlin, Germany) |



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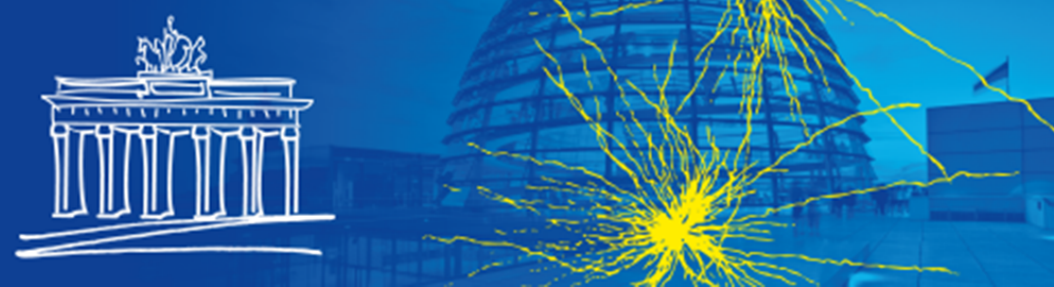


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| 1:52 pm | T05-057B | Developing organotypic chimeric human-murine brain slices as a model system for studying neurodegeneration
Bakhrom Muinjonov (Berlin, Germany) |
| 1:53 pm | T05-058B | A repurposing approach to delay disease progression in SOD1 ^{G93A} mice by counteracting oligodendrocyte dysfunction
Stefano Raffaele (Milano, Italy) |
| 1:54 pm | T05-059B | The Alzheimer's disease risk gene <i>INPP5D</i> modulates microglia-mediated synaptic pruning in the developing hippocampus
Alessandro Matera (Lausanne, Switzerland) |
| 1:55 pm | T06-013B | Rewiring of glucose and lipid metabolism induced by GPR17 silencing enables the transition of oligodendrocyte progenitors to myelinating cells
Davide Lecca (Milan, Italy) |
| 1:56 pm | T06-014B | Role of blood brain barrier <i>Drosophila</i> monocarboxylate transporters in the adaptive response to nutritional restriction.
Andres Gonzalez-Gutierrez (Santiago, Chile) |
| 1:57 pm | T06-015B | Myelin lipids as nervous system energy reserves
Ebrahim Asadollahi (Göttingen, Germany) |
| 1:58 pm | T06-017B | Exploring the impact of oligodendroglial reactive oxygen species on axonal function
Urvashi Sanjay Dalvi (Zürich, Switzerland) |
| 1:59 pm | T06-018B | Understanding the Effect of the Ketogenic Diet on the Mouse Brain Using Genetically Encoded Metabolite Sensors
Rachel Meister (Zurich, Switzerland) |
| 2:00 pm | T06-019B | Extracellular pH is brain state dependent.
Zuzanna Bojarowska (Copenhagen N, Denmark) |
| 2:01 pm | T06-020B | L-serine-mediated PKM2 allosteric regulation coordinates L-serine synthesis, glycolytic rate and lactate release
Emmanuel Than-Trong (Fontenay-aux-Roses, France) |
| 2:02 pm | T06-021B | Characterization of Microglial Lipid Metabolism in Progressive Multiple Sclerosis
Monica E. Garcia-Segura (Cambridge, UK) |



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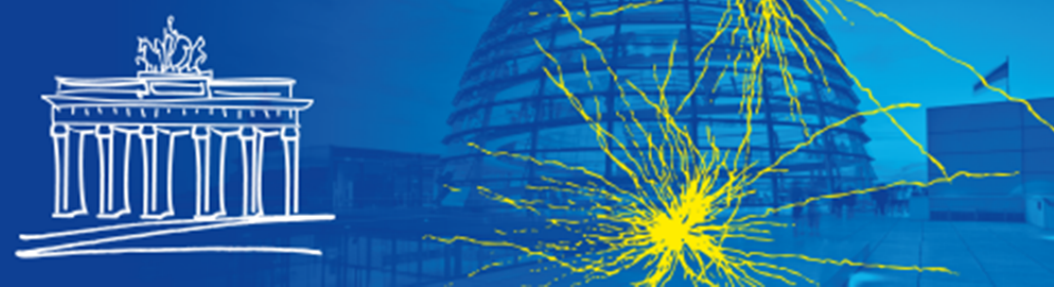


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| 2:03 pm | T06-022B | Noradrenaline-induced L-lactate production in rat astrocytes requires transit through the glycogen shunt which is dependent on cannabinoid signalling
Katja Fink (Ljubljana, Slovenia) |
| 2:04 pm | T06-023B | Astrocytic CREB neuroprotection in experimental traumatic brain injury is associated with regulation with energetics and lipid metabolism: role of lactate
Irene Fernández González (Bellaterra, Spain) |
| 2:05 pm | T07-001B | Viral-mediated fluorescent labelling of the extracellular matrix for live brain tissue imaging.
Mario Fernandez-Ballester (Leioa, Spain) |
| 2:06 pm | T07-002B | Distinct cell-free extracellular matrix composition between multiple sclerosis and toxin-induced demyelinated lesions
Jody M. de Jong (Groningen, Netherlands) |
| 2:07 pm | T07-003B | Role of cell adhesion molecules in oligodendrocyte-T cell interactions in MS
Haritha L. Desu (Montreal, Canada) |
| 2:08 pm | T07-004B | Phosphorylation and shedding of <i>DDR1</i> in the HOG16 human oligodendroglial cell line upon collagen IV incubation
Selena Aranda Castel (Reus, Spain) |
| 2:09 pm | T07-005B | Astrocytic hydrogen peroxide (H ₂ O ₂) and its role in collagen production and scar formation
Jae-Hun Lee (Daejeon, South Korea) |
| 2:10 pm | T07-006B | <i>Cspg4</i> governs oligodendrocyte lineage cell development
Samantha Bromley-Coolidge (Denver, USA) |
| 2:11 pm | T08-011B | Astrocyte-specific gene targets of the transcription factor ZEB1
Niharika Singh (Cardiff, UK) |
| 2:12 pm | T08-012B | snRNAseq of microglia and astrocytes in a model of remyelination failure
Katie Emberley (Portland, USA) |
| 2:13 pm | T08-013B | Spatial gene expression profiling predicts multiple sclerosis lesion evolution
Marion H.C. Wijering (Groningen, Netherlands) |



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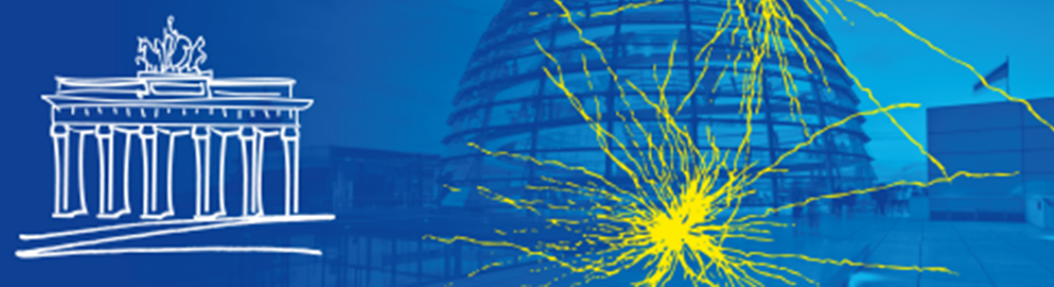


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| 2:14 pm | T08-014B | Effective extraction of polyribosomes exposes gene expression strategies in primary astrocytes
Shir Mandelboun (Tel Aviv, Israel) |
| 2:15 pm | T08-015B | The transcription factor Zfh2 acts in glia to regulate CNS development and motor behavior
Adela Ralbovska (Montreal, Canada) |
| 2:16 pm | T08-016B | A single-cell transcriptomics approach to identifying senescent retinal glia via the SenMayo panel.
Samyuktha Suresh (Singapore, Singapore) |
| 2:17 pm | T08-017B | A far upstream enhancer is a crucial regulator of catecholamine-dependent expression of the neurotrophin <i>Bdnf</i> in rodent astrocytes
Annela Avarlaid (Tallinn, Estonia) |
| 2:18 pm | T08-018B | All roads lead to astrocyte identity – Different human induced pluripotent stem cell to astrocyte differentiation protocols reveal high transcriptomic concordance with primary astrocytes
Luisa Egert (Planegg, Germany) |
| 2:19 pm | T09-010B | <i>Helicobacter pylori</i> outer membrane vesicles induce astrocyte reactivity and demyelination in organotypic cerebellar slice cultures
Esteban Palacios (Groningen, Netherlands) |
| 2:20 pm | T09-011B | Human iPSCs-derived astrocytes and oligodendrocytes as the first Autosomal Dominant Leukodystrophy-relevant cellular models
Martina Lorenzati (Orbassano (Turin), Italy) |
| 2:21 pm | T09-012B | Dynamic clearance of dying oligodendrocytes by single microglia
Genaro E. Olveda (Hanover, USA) |
| 2:22 pm | T09-013B | Glia cells in a mouse model of stuttering disorder: a morphometric study
Afuh Adeck (Frederick, USA) |
| 2:23 pm | T09-014B | Reconstructing glial dynamics and interactions underlying early pathological events in Alzheimer's mouse models
Anna Schmidtner (Jerusalem, Israel) |



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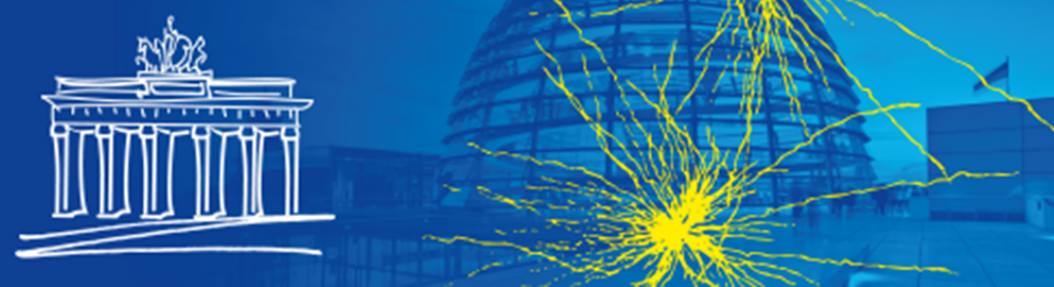


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| 2:24 pm | T09-015B | <i>Exclusive perivascular localization of AQP4ex in mouse brain after stereotaxic lentiviral gene delivery</i>
Gianluca Signorile (Bari, Italy) |
| 2:25 pm | T09-016B | Microglia and astrocytes regulate adult hippocampal neurogenesis in an inflammatory context in vitro
Marta Vilademunt Alcaide (Prilly, Switzerland) |
| 2:26 pm | T09-017B | Coupling of calcium events in the cortical astrocyte network
Max Collard (San Francisco, USA) |
| 2:27 pm | T10-016B | Genetic analysis of wrapping glia development in Drosophila
Marie Baldenius (Münster, Germany) |
| 2:28 pm | T10-017B | Unveiling the diversity of cerebellar astrocytes: insights into their molecular identities, development and functions
Valentina Cerrato (Orbassano, Torino, Italy) |
| 2:29 pm | T10-018B | Functional and molecular characterization of the Olig2-AS, an astrocyte subtype
Clemence Debacq (Toulouse cedex 09, France) |
| 2:30 pm | T10-019B | The Key Players of CNS function: Exploring the Effects of Region, Age, and Sex on Human Glia Diversity
Luise A. Seeker (Edinburgh, UK) |
| 2:31 pm | T10-020B | Investigating a novel microglial phenotype in a genetic model of Parkinson's disease
Gurkirat Kaur (Padova, Italy) |
| 2:32 pm | T10-021B | Astrocyte heterogeneity in Alzheimer's disease
Yiannis Poulot (Fontenay-aux-roses, France) |
| 2:33 pm | T10-022B | Characterization of astrocyte reactivity in a model of encephalopathy of prematurity
Ariane Heydari Olya (Paris, France) |
| 2:34 pm | T10-023B | Characterization of microglial states including dark microglia during postnatal development, in health and maternal immune activation
Sophia Loewen (Victoria, Canada) |



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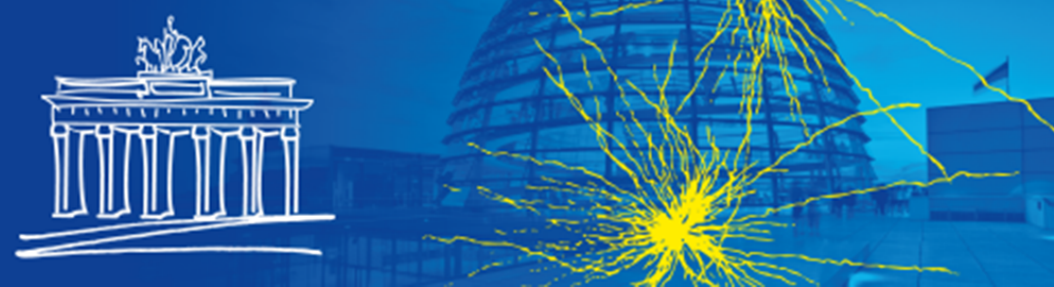


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| 2:35 pm | T10-024B | Molecular heterogeneity of ischemic injury-induced reactive astrocytes.
Rachel D. Kim (New York, USA) |
| 2:36 pm | T10-025B | Exploring myelinating glial plasticity at motor exit point transition zones
Laura Fontenas (Jupiter, USA) |
| 2:37 pm | T10-026B | Alterations of Astrocytic Aquaporin 4 expression and morphological distributions in Down syndrome with Alzheimer's Disease
Cherie Lepe (Stringer) (Irvine, USA) |
| 2:38 pm | T10-027B | Comparison of olfactory ensheathing cells from the olfactory bulb and olfactory mucosa revealing differences in migration patterns
Sophie Steinwenter (Wien, Austria) |
| 2:39 pm | T10-028B | Microglial diversity along the hippocampal longitudinal axis impacts synaptic plasticity in adult male mice under homeostatic conditions.
Eleonora De Felice (Rome, Italy) |
| 2:40 pm | T10-029B | Investigation of astroglial heterogeneity in the human cortex and caudate nucleus
Paulina Hoppa (Budapest, Hungary) |
| 2:41 pm | T10-030B | Radial glia and progenitor diversity in the brain of the fast-aging African turquoise killifish
Caroline Zandecki (Leuven, Belgium) |
| 2:42 pm | T11-042B | MeCP2 deficiency in astrocytes alters synaptogenesis through IL-6 mediated non-cell autonomous mechanism
Martina Breccia (Milano, Italy) |
| 2:43 pm | T11-043B | N-acetyl cysteine rescues cortical glial cell populations and results in functional improvements in a mouse model of primary autosomal recessive microcephaly 17 (MCPH17)
Maryam Khastkhodaei Ardakani (Torino, Italy) |
| 2:44 pm | T11-044B | Sex specific differences in the secretome of oligodendrocyte progenitor cells post hyperoxic stress
Donna E. Sunny (Greifswald, Germany) |
| 2:45 pm | T11-045B | Microglia Actively Remove NR1 Autoantibody-Bound NMDA Receptors And Associated Post-Synaptic Proteins In Neuron Microglia Co-cultures.
Kazi Atikur Rahman (Berlin, Germany) |



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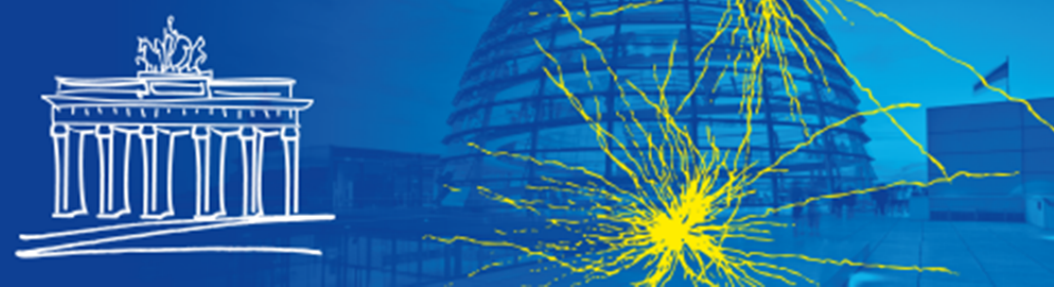


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| 2:46 pm | T11-046B | Examining the regulation of resident mRNAs in myelin plasticity
Kadidia P. Adula (Aurora, USA) |
| 2:47 pm | T11-047B | Remyelination failure triggers MAP3K-mediated neurodegeneration
Greg J. Duncan (Portland, USA) |
| 2:48 pm | T11-048B | Astrocyte store-released calcium perturbation disrupts glutamatergic synapse development
Isabella Farhy-Tselnicker (College Station, USA), Gillian Imrie (College Station, USA) |
| 2:49 pm | T11-049B | Rapid differentiation of induced pluripotent stem cells towards mature astrocytes
Imke M.E. Schuurmans (Nijmegen, Netherlands) |
| 2:50 pm | T11-050B | Adenosine mediates metabolic signaling between neurons and astrocytes
Shefeeq M. Theparambil (London, UK) |
| 2:51 pm | T11-051B | Tuberous Sclerosis Complex iPSC-derived cultures reveal the role of astrocyte-secreted factors in neuronal development
Stephanie Dooves (Amsterdam, Netherlands) |
| 2:52 pm | T11-052B | SOD1G93A astrocyte-derived extracellular vesicles induce motor neuron death by a miRNA-155-5p mediated mechanism.
Soledad Marton (Montevideo, Uruguay) |
| 2:53 pm | T11-053B | <i>BDNF Signaling onto Astrocyte TrkB.T1 Drives Astrocyte Structural Plasticity Supporting Glutamatergic Synaptogenesis</i>
Michelle L. Olsen (Blacksburg, USA) |
| 2:54 pm | T11-054B | Cortical astrocyte N-Methyl-D-Aspartate receptors influence whisker barrel activity and sensory discrimination
Noushin Ahmadpour (Winnipeg, Canada) |
| 2:55 pm | T11-055B | Astrocytic contribution in spasticity after spinal cord injury
Tony Barbay (Marseille, France) |
| 2:56 pm | T11-056B | Unravelling glia-specific contributions to neuronal network phenotypes: engineering a human stem cell-derived tri-culture on multielectrode arrays
Annika Mordelt (Nijmegen, Netherlands) |



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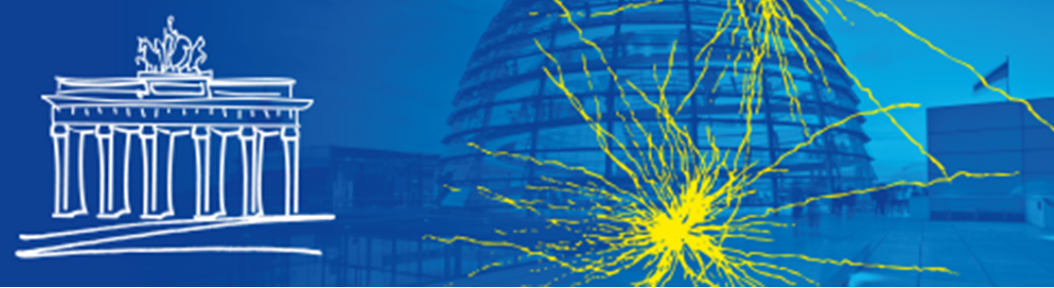


2:57 pm	T11-057B	Population calcium activity in cortical astrocytes during mouse locomotion Anna Fedotova (Moscow, Russia)
2:58 pm	T11-058B	Bioelectrical properties in oligodendrocyte precursor cells drive differences in their proliferation capacity Helena Pivonkova (Cambridge, UK)
2:59 pm	T11-059B	Investigating mechanisms by which oligodendrocyte precursor cells regulate arbour size of retinal ganglion cell axons in the zebrafish visual system. Emma Dumble (Edinburgh, UK)
3:00 pm	T11-060B	Perinatal inflammation impairs neuroglia plasticity of cerebellum in a sex-dependent manner Maryam Ardalan (Gothenburg, Sweden)
3:01 pm	T11-061B	Microglia regulate autonomic function via modulating pre-sympathetic neurons in the hypothalamic paraventricular nucleus Peng Shi (Hangzhou, China)
3:02 pm	T11-062B	Tunneling nanotubes-mediated functional interactions between neuronal and microglial cells Ranabir Chakraborty (Paris, France)
3:03 pm	T11-063B	Microglial Dysfunction and Synaptic Alterations within Inflamed Circuits in the Degenerating Visual System of Multiple Sclerosis-relevant mouse models Sebastian Werneburg (Ann Arbor, USA)
3:04 pm	T11-064B	Investigating neuron-oligodendrocyte precursor cell communication using dual-colour calcium imaging in a zebrafish <i>in vivo</i> model Patricia Bispo (Edinburgh, UK)
3:05 pm	T11-065B	Development of a murine 3D-tri-culture approach for the analysis of neuron-glia interactions Christian Schmeer (Jena, Germany)
3:06 pm	T11-066B	Conversations with friends: Examining pyramidal cells and microglia interaction during development Fong Kuan Wong (Manchester, UK)
3:07 pm	T11-067B	Effect of a peptide secreted by astrocytes on adult hippocampal neurogenesis Charline Carron (Lausanne, Switzerland)



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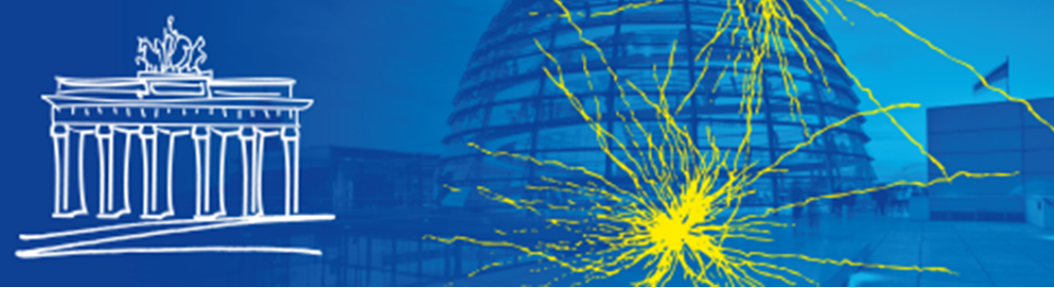


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| 3:08 pm | T11-068B | Human iPSC-derived microglia in 3D MICro-brains: A three-dimensional myelination & inflammation cortical network platform
Sakshi Bansal (Rotterdam, Netherlands) |
| 3:09 pm | T11-069B | Locomotion differently changes the mitochondria redox state and H ₂ O ₂ production in astrocytes and neurons
Alisa Tiaglik (Jiaxing, China) |
| 3:10 pm | T11-070B | (Pro)Renin-induced microglial proinflammatory response enhances dopaminergic neuronal death
Andrea Lopez-Lopez (Santiago de Compostela, Spain) |
| 3:11 pm | T11-071B | Impact of aberrant neuronal activity on oligodendrocyte lineage cells in a mouse model of focal cortical dysplasia
Bohdana Hruskova (Prague 5, Czech Republic) |
| 3:12 pm | T11-072B | Investigations on the contribution of the astrocytic connexin-43 in the pathogenesis of spinal muscular atrophy in a mouse model
Schahin Salmanian (Essen, Germany) |
| 3:13 pm | T11-073B | Human microglia enhance developmental neuronal maturation and induce synapse activation
Balazs Varga (Cambridge, UK) |
| 3:14 pm | T11-074B | Computational modeling of neuron-astrocyte interactions in networks: Experiments, theory, and models
Tiina Manninen (Tampere, Finland) |
| 3:15 pm | T11-075B | Regulation of striatal synaptic connectivity by astrocytic phagocytosis
Ji-young Kim (Daegu, South Korea) |
| 3:16 pm | T11-076B | Improved gliotransmission by increasing intracellular Ca ²⁺ via TRPV1 on multi-walled carbon nanotube platforms
Won-Seok Lee (Cheonan-si, Chungcheongnam-do, South Korea) |
| 3:17 pm | T11-077B | Neuronal Response to <i>In Vivo</i> Autoimmune Astrocyte Ablation in the Mouse Cortex
Nicola B. Schmid (Zurich, Switzerland) |
| 3:18 pm | T11-078B | Neuronal activity modulates microglia phenotype in repair through microglia-node of Ranvier interaction.
Clement Perrot (Paris, France) |



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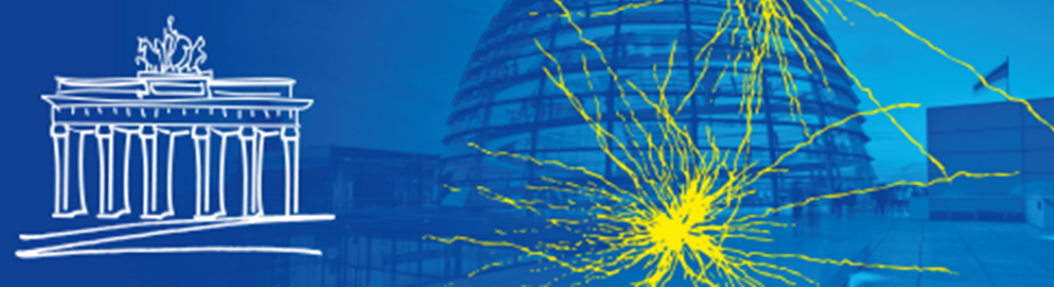


3:19 pm	T11-079B	Remission after stress via enriched environment increases hippocampal dendritic spine density independent of microglia Fabrizio Musacchio (Bonn, Germany)
3:20 pm	T11-080B	Radial glial action potentials initiate fetal motor activity Jean-Marie Mangin (Paris, France)
3:21 pm	T11-081B	The role of the postsynaptic scaffold protein SHANK3 in NG2-glia in the adult brain and in autism spectrum disorder Katrin Volbracht (Ulm, Germany)
3:22 pm	T11-082B	Microglia mediate the plasticity-promoting effect of TNF α Dimitrios Kleidonas (Freiburg, Germany)
3:23 pm	T12-011B	Cerebral ischemia model optimised for two-photon imaging María Isabel Ardaya Franco (Leioa, Spain)
3:24 pm	T12-012B	Cell-type dependent regulation of stemness in glioblastoma cells through Bafilomycin A1 during hypoxia and acidosis Eleni Roussa (Freiburg, Germany)
3:25 pm	T12-013B	Spatiotemporal transcriptomic landscape of experimental ischemic brain injury Lukas Valihrach (Vestec, Czech Republic)
3:26 pm	T12-014B	The role of astrocyte dysfunction in the evolution of spreading depolarization during ischemia Rita Frank (Szeged, Hungary)
3:27 pm	T12-015B	Evaluation of the deleterious effect of hyperglycemia in experimental stroke: role of the hypoxia-inducible factor (HIF). María Isabel Hernández Cortés (Leioa, Vizcaya, Spain)
3:28 pm	T12-016B	Inhibition of peptidylarginine deiminase 4 confers neuroprotective effects in the post-ischemic brain via anti-inflammatory effects Song-I Seol (Incheon, South Korea)
3:29 pm	T12-017B	HMGB1-mediated hepcidin upregulation in astrocytes causes an acute iron surge and subsequent ferroptosis in the post-ischemic brain Dashdulam Davaanyam (Incheon, South Korea)



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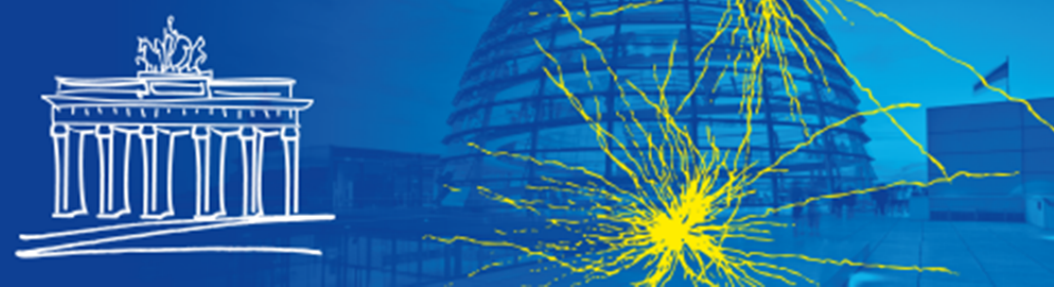


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| 3:30 pm | T12-018B | Oligodendrocytes are key players in the montelukast-induced protection against stroke
Majeda Muluhie (Milan, Italy) |
| 3:31 pm | T12-019B | Targeting Ionotropic Glutamate Receptors in Models of Focal Cerebral Ischemia
Daniel Morgan (Plymouth, UK) |
| 3:32 pm | T12-020B | Effect of Ischemia on Oligodendrocyte Morphology in the Mouse Optic Nerve
Naomi H. Lynham (Plymouth, UK) |
| 3:33 pm | T14-027B | Dock1 Regulates Developmental and Regenerative Schwann Cell Myelination
Ryan A. Doan (Portland, USA) |
| 3:34 pm | T14-028B | Myelin insulation as a risk factor for axonal degeneration in autoimmune demyelinating disease
Mar Bosch Queralt (Leipzig, Germany) |
| 3:35 pm | T14-029B | Caveolin-1 as a novel interaction partner of PMP22 gives insights into the regulation and dysregulation of peripheral nerve myelination
Daniela Stausberg (Göttingen, Germany) |
| 3:36 pm | T14-030B | A humanized mouse model to study remyelination after demyelination in spinal cord.
Beatriz Garcia Diaz (Malaga, Spain) |
| 3:37 pm | T14-031B | Autophagic degradation of CNS myelin maintains axon integrity
Niki Ktena (Heraklion, Greece) |
| 3:38 pm | T14-032B | Role of clathrin-mediated endocytosis in myelinating oligodendrocytes
Sophie Siems (Göttingen, Germany) |
| 3:39 pm | T14-033B | Molecular diversity of CNS myelin
Silya Gargareta (Göttingen, Germany) |
| 3:40 pm | T14-034B | Toxic CUG RNA repeats disrupt developmentally-regulated splicing in oligodendrocytes causing transient hypomyelination in a mouse model of myotonic dystrophy
Louison Lallemand (Paris, France) |



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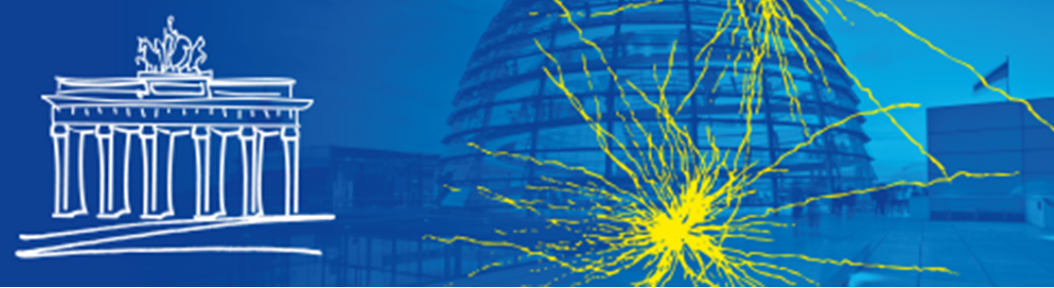


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| 3:41 pm | T14-035B | Region-specific myelin changes along the mouse lifespan
Sebastian Timmler (Cambridge, UK) |
| 3:42 pm | T14-036B | High Dose Pharmaceutical Grade Biotin (MD1003) Accelerates Differentiation of Murine and Grafted Human Oligodendrocyte Progenitor Cells In Vivo
Sabah Mozafari (Paris, France) |
| 3:43 pm | T14-037B | Mechanisms controlling neuroblasts migration and reprogramming during myelin repair.
Marie Falque (Marseille, France) |
| 3:44 pm | T14-039B | Are there different mechanisms of oligodendrocyte recruitment in regeneration and plasticity?
Laura J. Hoodless (Edinburgh, UK) |
| 3:45 pm | T14-040B | Myelin plasticity in ventral tegmental area is required for opioid reward
Belgin Yalcin (Stanford, USA) |
| 3:46 pm | T14-041B | Exploring the role of voltage-gated calcium channel subunits in activity-dependent myelination in the central nervous system
Wenjing Sun (Columbus, USA) |
| 3:47 pm | T14-042B | Novel mechanism of myelination regulation in neurodevelopmental disorders
Gilad Levy (Tel-Aviv, Israel) |
| 3:48 pm | T14-043B | Effect of axon stiffness on myelin ensheathment by oligodendrocytes
Mingyu Yang (Cambridge, USA) |
| 3:49 pm | T14-044B | Prolactin receptor deficiency promotes hypomyelination in white matter tracts during central nervous system maturation in mice
Ana Luisa Ocampo Ruiz (Querétaro, Mexico) |
| 3:50 pm | T14-045B | Imbalance of NRG1 type III-ERBB2/3 signaling underlies altered myelination in Charcot-Marie-Tooth disease type 4H
Valerie Delague (Marseille, France) |
| 3:51 pm | T14-046B | Citron-kinase loss leads to hypomyelination <i>via</i> cell autonomous and non-cell autonomous mechanisms
Martino Bonato (Turin, Italy) |



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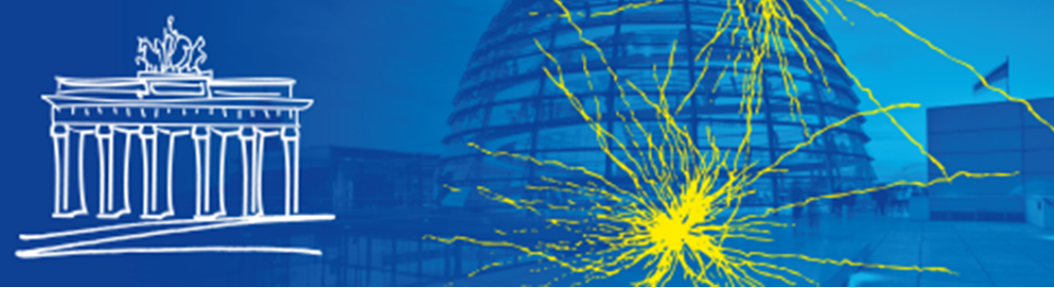


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| 3:52 pm | T14-047B | Exploring the Pathogenic Role of Claudin-11 Mutations in Hypomyelinating Leukodystrophy Using a Novel Humanized Knock-In Mouse Model
Oguz K. Ozgoren (Vancouver, Canada) |
| 3:53 pm | T14-048B | RhoA Is a Putative Negative Regulator of CNS Myelination
Raquel Vale Silva (Porto, Portugal) |
| 3:54 pm | T14-049B | Using human iPSC-derived organoids to model demyelination, oligodendrocyte dysfunction and microglial toxicity in Multiple Sclerosis
Shwathy Ramesan (Melbourne, Australia) |
| 3:55 pm | T14-050B | Astrocyte-specific deletion of the volume-regulated anion channel does not reproduce key aspects of Megalencephalic Leukoencephalopathy with subcortical Cysts
Sven Kerst (Amsterdam, Netherlands) |
| 3:56 pm | T14-051B | Prostaglandin D2 synthase controls Schwann cells metabolism
Rosa La Marca (Milan, Italy) |
| 3:57 pm | T15-007B | Nanoscale interfaces alter adult mice neurospheres adhesion morphology and differentiation
Chiara Lazzarini (Bologna, Italy) |
| 3:58 pm | T15-008B | Effects of peripheral trauma on adult neurogenesis and the reaction of glial cells in the brain
Marsela Hakani (Ulm, Germany) |
| 3:59 pm | T15-009B | Noradrenergic agonists attenuate microglial inflammation and impairments in hippocampal neurogenesis induced by whole-brain irradiation
Isabeau De Bie (Ghent, Belgium) |
| 4:00 pm | T15-010B | Galectin-3 regulates apical-basal polarity in the developing forebrain
Francis Szele (Oxford, UK) |
| 4:01 pm | T15-011B | Developmental origin of enteric glial cell plasticity
Anna Laddach (London, UK) |
| 4:02 pm | T15-012B | Striatal astrocytes generate a novel neuron type that transiently integrates into damaged circuits
Giulia Nato (Orbassano, Italy) |



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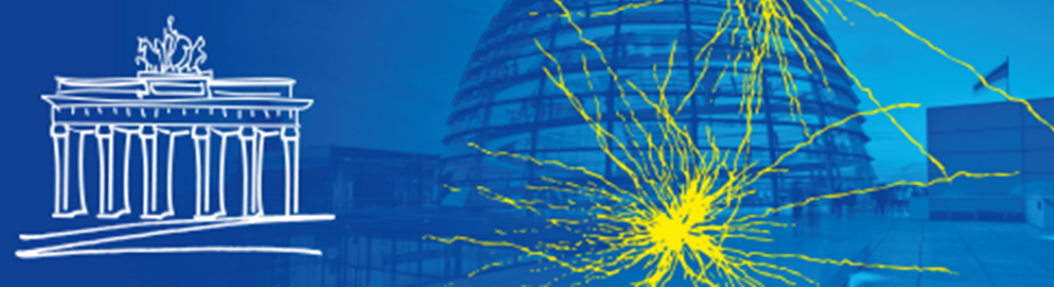


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| 4:03 pm | T16-056B | miR-21 is deregulated in <i>ex vivo</i> and <i>in vitro</i> models of demyelination and neuroinflammation
María Muñoz San Martín (Dublin, Ireland) |
| 4:04 pm | T16-057B | Brain Inflammation Triggers Macrophage Invasion Across the Blood-Brain Barrier in <i>Drosophila</i>
Bente Winkler (Muenster, Germany) |
| 4:05 pm | T16-058B | An <i>in vitro</i> and <i>ex vivo</i> analysis of the potential of GelMA hydrogels as a therapeutic platform for preclinical spinal cord injury.
Ciara M. Walsh (Dublin, Ireland) |
| 4:06 pm | T16-059B | Immunotherapy-related cognitive impairment after CAR T cell therapy in mice
Anna Geraghty (Palo Alto, USA) |
| 4:07 pm | T16-060B | Choroid Plexus Immune Activation and Barrier Integrity Breakdown in Amyotrophic Lateral Sclerosis Mouse Model
Anna Dong (Cambridge, USA) |
| 4:08 pm | T16-061B | Effects of influenza A virus infection on hippocampal neuron structure and function in aged wild-type mice
Shirin Hosseini (Braunschweig, Germany) |
| 4:09 pm | T16-062B | Incorporation of human iPSC-derived microglia into test systems to study early brain development
Chiara S. Wolfbeisz (Konstanz, Germany) |
| 4:10 pm | T16-063B | Forced polarisation of microglia by IL-13 is modified by microenvironmental context.
Emmanuelle D. Aiyegbusi (Dublin, Ireland) |
| 4:11 pm | T16-064B | Manganese-induced microglial LRRK2 hyper kinase activity induces neuroinflammation via Rab10 in mice, which is further exacerbated in LRRK2 G2019S mutation
Eunsook Lee (Tallahassee, USA) |
| 4:12 pm | T16-065B | Impact of diesel-exhaust derived air pollution on transcriptome and functionality of human iPSC-derived microglia
Sohvi Ohtonen (Kuopio, Finland) |
| 4:13 pm | T16-066B | Microglial impairment as a novel basis for hypothalamic dysfunction in Prader-Willi Syndrome
Felipe Correa da Silva (Amsterdam, Netherlands) |



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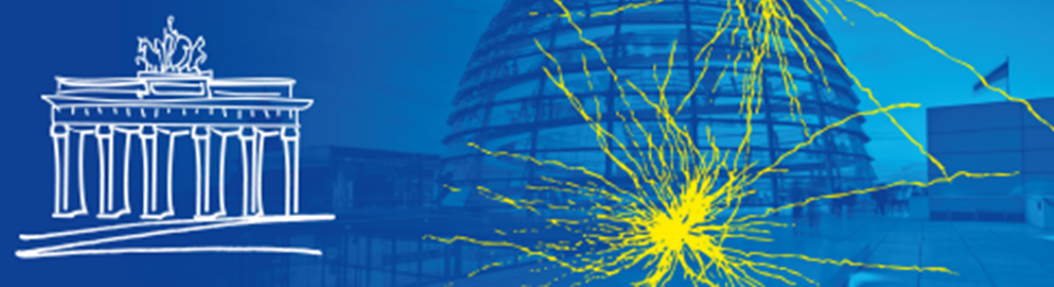


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| 4:14 pm | T16-067B | Modulation of neuroinflammation by cannabinoids and cannabis cultivars: possible implications for multiple sclerosis
Sigal Fleisher-Berkovich (Beer-Sheva, Israel) |
| 4:15 pm | T16-068B | Microglial DLG4 functions in Neurodevelopmental Disorders associated to Prematurity
Florence Julien-Marsollier (Paris, France) |
| 4:16 pm | T16-069B | Establishing an <i>ex-vivo</i> model of neuro-inflammatory driven white matter pathology and its use as a drug testing platform
Verity F.T. Mitchener (Plymouth, UK) |
| 4:17 pm | T16-070B | THIK-1 controls microglial interleukin-1 β release in the human brain
Ali Rifat (Berlin, Germany) |
| 4:18 pm | T16-071B | Fucoxanthin's therapeutic and protective properties prevented UVB-induced astrocyte activation of the trigeminal ganglion in a rat model.
Shiu-Jau Chen (New Taipei City, Taiwan) |
| 4:19 pm | T16-072B | Maternal obesity impairs neuroglia plasticity in the cerebellum of adult offspring
Seyedeh Marziyeh Jabbari Shiadeh (Göteborg, Sweden) |
| 4:20 pm | T16-073B | Endogenous Sox8 is a critical factor for oligodendroglial cell repletion and myelin integrity in the cuprizone model of demyelination
David Freudenstein (Regensburg, Germany) |
| 4:21 pm | T16-074B | Additive deleterious effects of delivery mode on perinatal brain injuries: microbiota's fault.
Cindy Bokobza (Paris, France) |
| 4:22 pm | T16-075B | The effects of chronic high-dose morphine on microgliosis and the microglial transcriptome in rat spinal cord
Fredrik H. Ahlström (Helsinki, Finland) |
| 4:23 pm | T16-076B | Assessment of the therapeutic potential of MaR1 for the treatment of acute Spinal Cord Injury and characterization of its receptors in the lesioned spinal cord
Marc Caro Cantón (Bellaterra, Spain) |
| 4:24 pm | T16-077B | Interplay Between Microglial Receptor TREM2 and Maternal Immune Challenges in Schizophrenia
Matteo Bizzotto (Pieve Emanuele, Italy) |



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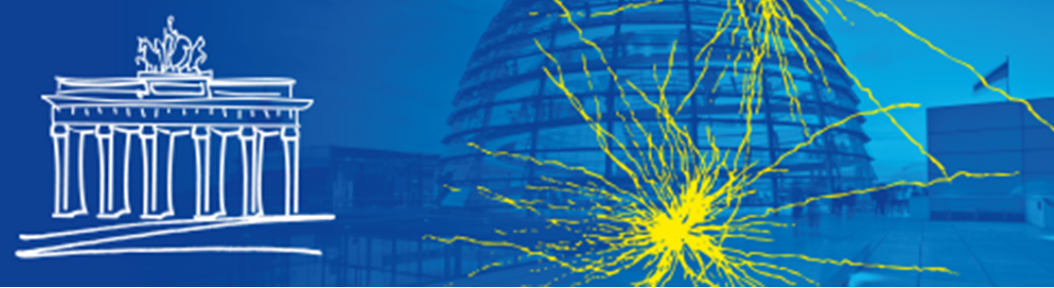


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| 4:25 pm | T16-078B | Targeting PPAR δ/β pathways to regulate inflammatory responses in human microglia <i>in vitro</i> .
Rawan Aloufi (Nottingham, UK) |
| 4:26 pm | T16-079B | A new cerebral organoid culture model to study microglia during neurodevelopment and neuropathology and the effects of novel drugs targeting microglia
Alice Buonfiglioli (New York, USA) |
| 4:27 pm | T16-080B | Interleukin-12-driven crosstalk in Alzheimer's disease affecting oligodendrocyte survival and myelination
Maria Geesdorf (Berlin, Germany) |
| 4:28 pm | T16-081B | The role of NG2-glia in neuroinflammation
Maja Papic (Mainz, Germany) |
| 4:29 pm | T16-082B | FABP7 expression modulates the response of astrocytes to inflammatory stimuli
Marcelo R. Vargas (Madison, USA) |
| 4:30 pm | T16-083B | Microglial CD300f immune receptor contributes to synaptic pruning and depression by recruiting CCR2+ macrophages
Daniela Alí (Montevideo, Uruguay) |
| 4:31 pm | T16-084B | Single-cell spatial proteomics approach to study microglial cell phenotype in health and pathology using CODEX multiplex imaging technology
Paula Sanchez-Molina (Portland, USA) |
| 4:32 pm | T16-085B | Cytosolic HMGB1 mediates LPS-induced autophagy in microglia by interacting with NOD2 and suppresses its proinflammatory function
Sang-A Oh (Incheon, South Korea) |
| 4:33 pm | T16-086B | Complement in Glial Components of the Sciatic Nerve
Shani Berkowitz (Ramat Gan, Israel) |
| 4:34 pm | T16-087B | LRRK2 G2019S attenuates repair of brain injury by reducing osteopontin expression and release of monocytic exosomes
Eun-Hye Joe (Suwon, South Korea) |
| 4:35 pm | T16-088B | IFN γ induced inflammatory profile on human microglia is enhanced on interaction with alpha-synuclein fibrils
Jonna Niskanen (Kuopio, Finland) |



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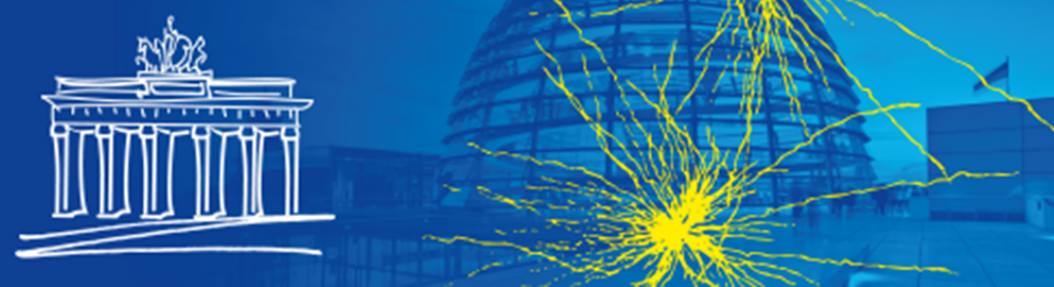


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| 4:36 pm | T16-089B | Epigenetic regulation of phosphatidylinositol 3-kinase (PI3K) by miR-21-5p and HDAC3i in murine microglia
S. Thameem Dheen (Singapore, Singapore) |
| 4:37 pm | T16-090B | The JAK1/2-inhibitor ruxolitinib prevents the lasting interferon-gamma-mediated priming of microglia (brain macrophages)
Lennart Söder (Heidelberg, Germany) |
| 4:38 pm | T16-091B | Role of the immunoreceptor CD200R1 in neuroinflammation induced by spinal cord injury and LPS challenge
Natalia Lago Pérez (Bellaterra, Spain) |
| 4:39 pm | T16-092B | Studying the heterogeneity of extracellular vesicles upon neuroinflammatory stimulation: comparing an in vitro, ex vivo and in vivo set-up
Lien Cools (Leuven, Belgium) |
| 4:40 pm | T16-093B | Persistent infection of seasonal and pandemic influenza viruses in a hiPSC-derived neural model
Feline F.W. Benavides (Rotterdam, Netherlands) |
| 4:41 pm | T16-094B | IL-38 characterization in Experimental Autoimmune Encephalomyelitis and Multiple Sclerosis
Néstor López González (Bellaterra (Cerdanyola del Vallès), Spain) |
| 4:42 pm | T16-095B | Lipidomic profile changes associated with loss of phagocytic activity in iron-treated microglia
Sylvester, Shu Ming Wong (Singapore, Singapore) |
| 4:43 pm | T16-096B | Influenza vaccine is able to prevent neuroinflammation triggered by H7N7 IAV infection
Luisa Demuth (Braunschweig, Germany) |
| 4:44 pm | T16-097B | Role of the cannabinoid receptor type 2 in microglia function in a mouse model of Alzheimer's disease.
M Teresa Grande (Pozuelo de Alarcón, Spain) |
| 4:45 pm | T16-099B | <i>In vitro</i> characterization of human SOD1 ^{G93A} ALS embryonic stem cell-derived microglia
Joana Garcia Garcia (Bellaterra, Spain) |
| 4:46 pm | T16-100B | Large-scale proteomic analysis of male and female mice revealed sex-specific features following CNS injury.
Veronika Schwarz (Planegg-Martinsried, Germany) |



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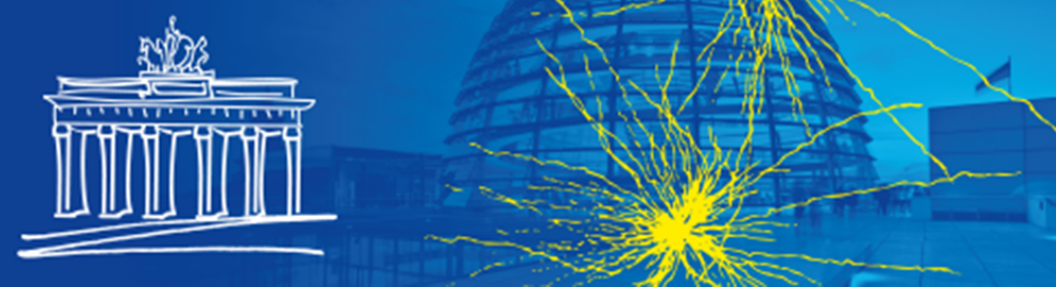


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| 4:47 pm | T16-101B | Addressing human astrogliosis in a hiPSC-derived 3D CNS model
Catarina M. Gomes (Oeiras, Portugal) |
| 4:48 pm | T16-102B | Shared inflammatory glial cell signature after brain injury revealed by spatial, temporal and cell-type-specific profiling of the murine cerebral cortex
Christina Koupourtidou (Planegg-Martinsried, Germany) |
| 4:49 pm | T16-104B | In vivo microglial BIN1 deletion following LPS-induced neuroinflammation regulates microglia proliferation and inflammatory response
Maria Margariti (Athens, Greece) |
| 4:50 pm | T16-105B | Does diroximel fumarate protect against ferroptosis?
Katinka Fischer (Düsseldorf, Germany) |
| 4:51 pm | T16-106B | Loss of Cox-1 attenuates microglia reactivity after optic nerve injury
Florianne E. Schoot Uiterkamp (Klosterneuburg, Austria) |
| 4:52 pm | T16-107B | NLRP3 regulates microglial metabolic state, impacting cellular function in Alzheimer's disease
Roisin M. McManus (Bonn, Germany) |
| 4:53 pm | T16-108B | Ageing and infection-induced neuroinflammation enhance microglial synaptic engulfment
Tabea Linde (Magdeburg, Germany) |
| 4:54 pm | T16-109B | A major role for type I interferon (IFNs-I) response and RNA-dependent kinase R (PKR) in directly activating microglia in the context of Zika virus infection
Violaine Bortolin (Paris, France) |
| 4:55 pm | T16-110B | Cellular and molecular mechanisms of the interferon-responsive gene <i>OAS1</i> in microglia for Alzheimer's disease
Naciye Magusali (London, UK) |
| 4:56 pm | T18-001B | Interleukin-1 signaling in the blood-brain barrier influences the behavioral response to chronic social stress
Eva Schramm (Mainz, Germany) |
| 4:57 pm | T18-002B | Astrocyte gap junctions regulate neuronal excitability and neurovascular coupling in the mouse cortex
Danica Bojovic (Portland, USA) |



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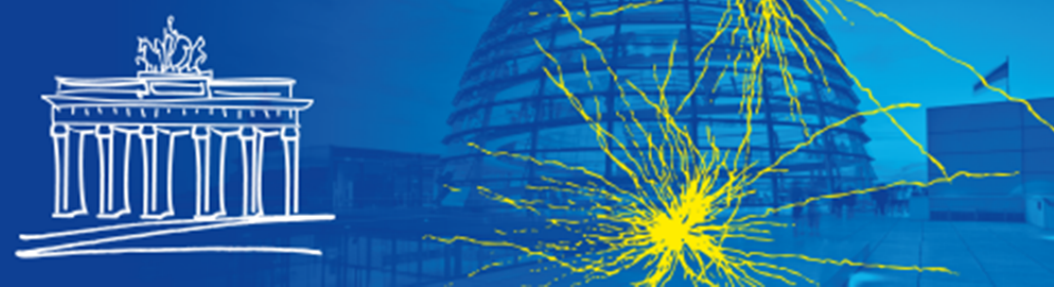


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| 4:58 pm | T18-003B | Terminal Schwann cells and Kranocytes: connecting Neuromuscular Junctions to vascular network in health, injury and disease.
Sandra Fuertes-Alvarez (San Sebastian, Spain) |
| 4:59 pm | T18-004B | Microglia change at micro- and nanoscopic scales in response to therapeutic focused ultrasound blood-brain barrier modulation
Elisa Gonçalves de Andrade (Victoria, Canada) |
| 5:00 pm | T18-005B | A network of CD163 ⁺ macrophages monitors enhanced permeability at the blood-sensory ganglion barrier
Harald Lund (Stockholm, Sweden) |
| 5:01 pm | T19-013B | Optogenetic activation of astrocytes rescues synaptic defects and anxiety-like behavior in early life stress
Lan Xiao (Chongqing, China) |
| 5:02 pm | T19-014B | <i>The effect of MeCP2 mutations on microglia phenotype and function in Rett Syndrome</i>
Mara Graziani (New york, USA) |
| 5:03 pm | T19-015B | Astrocyte-mediated phagocytosis in mood and depressive-like disorders
Eugenia Vivi (Regensburg, Germany) |
| 5:04 pm | T19-016B | Role of Astrocytic O-GlcNAcylation in Social and Cognitive Behavior
Prajitha Pradeep (Daejeon, South Korea) |
| 5:05 pm | T19-017B | Novel mechanisms underpinning fluoxetine-induced changes to astrocytic lactate release
Catriona Marston (Bristol, UK) |
| 5:06 pm | T19-018B | Preclinical and clinical evidence for IL-6 and CCL2 as potential mediators in the pathophysiology of psychosis
Chloë Trippaers (Baltimore, USA) |
| 5:07 pm | T19-019B | Circulating biomarkers indicate suicidal risk in patients with major depressive disorder
Alejandra P. Garza (Magdeburg, Germany) |
| 5:08 pm | T19-020B | Effects of chronic social stress on oligodendrocyte lineage proliferation-maturation and myelin status
Giulia Poggi (Zürich, Switzerland) |



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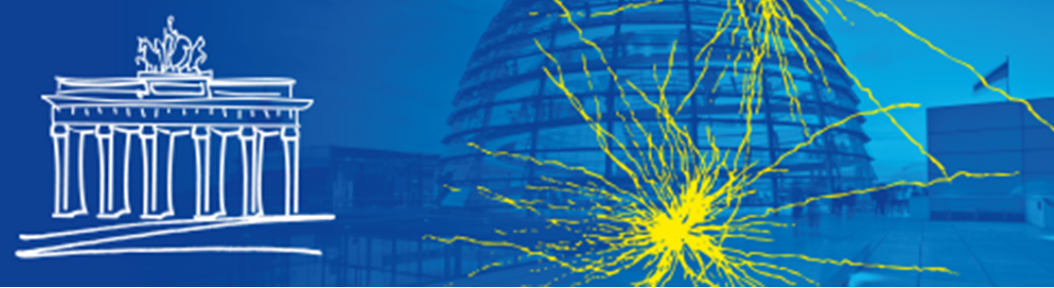


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| 5:09 pm | T19-021B | Synaptic competency of Hoxb8-lineage microglia in repetitive and anxiety-like behavior.
Kayla M. Eschenbacher (Salt Lake City, USA) |
| 5:10 pm | T19-022B | Blocking methamphetamine-induced microglia reactivity by targeting glutamate receptors
Teresa Summavielle (Porto, Portugal) |
| 5:11 pm | T19-023B | GIT1 haploinsufficiency-driven ADHD-like symptoms by region-specific tonic inhibition alteration
Jong Min Joseph Kim (Cheonan-si, Chungcheongnam-do, South Korea) |
| 5:12 pm | T20-017B | Remyelination by UPR modulation - a novel BBB penetrating variant of MANF
Tapani Koppinen (Helsinki, Finland) |
| 5:13 pm | T20-018B | Mechanisms of endocannabinoid mediated remyelination in cortical organotypic slice cultures
Kieran Higgins (Amsterdam, Netherlands) |
| 5:14 pm | T20-019B | ROS TRIGGER SOX10+ OLIGODENDROCYTE ACTIVATION DURING ZEBRAFISH REGENERATION
Adrian Santos-Ledo (Salamanca, Spain) |
| 5:15 pm | T20-020B | Extracellular vesicle-associated cholesterol dictates the regenerative functions of macrophages in the brain
Sam Vanherle (Diepenbeek, Belgium) |
| 5:16 pm | T20-021B | Selective PDE4 subtype inhibition provides new opportunities to intervene in neuroinflammatory versus myelin damaging hallmarks of multiple sclerosis
Tim Vanmierlo (Hasselt, Belgium) |
| 5:17 pm | T20-022B | Multiscale analysis for biomarkers discovery in Multiple Sclerosis using Mass Spectrometry analysis
Imane Charmarke askar (Strasbourg, France) |
| 5:18 pm | T20-024B | A new toolbox for neuroscientists: soft cryogel scaffolds for localised manipulation of neural tissue in culture.
Ben Newland (Cardiff, UK) |
| 5:19 pm | T20-025B | Inhibition of Microglia proliferation at chronic stage after Spinal Cord Injury
Jean-Christophe Perez (Montpellier, France) |



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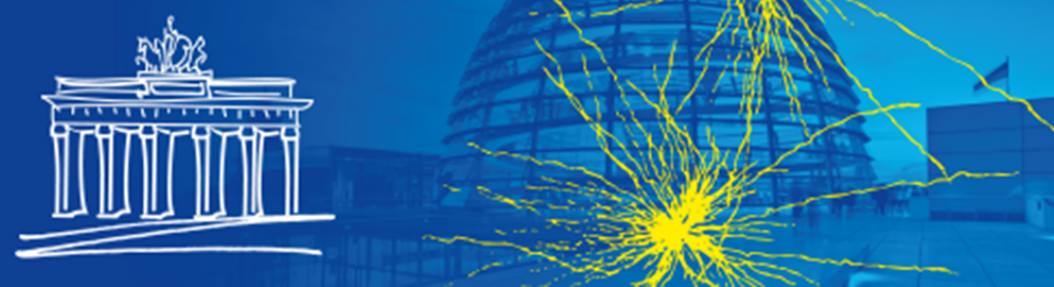


5:20 pm	T20-026B	What regulates the early Schwann cell injury response? Clara Mutschler (Cambridge, UK)
5:21 pm	T20-027B	N-acetyl aspartate induces oligodendroglia differentiation Alessandra Dominicis (Roma, Italy)
5:22 pm	T20-028B	Pharmacological blockade of GPR17 promotes functional and structural remyelination in the murine cuprizone model Irene Knuesel (Leuven, Belgium)
5:23 pm	T20-029B	Transcription factors EB and E3 promote repair Schwann cell formation and expansion following PNS injury Akash Patel (Newark, USA)
5:24 pm	T20-030B	Investigating the glial checkpoints for circuit integration of neuronal transplants Maria Fernanda Martinez Reza (Munich, Germany)
5:25 pm	T20-031B	Myelin water fraction of the corpus callosum is a robust measure of remyelination in a double blind-placebo controlled clinical trial. Christian Cordano (San Francisco, USA)
5:26 pm	T20-032B	Discovery and targeting of pathological cell states after spinal cord injury Margherita Zamboni (Stockholm, Sweden)
5:27 pm	T21-001B	Overcoming Neuronal Reprogramming Barriers as a Novel Therapeutic Strategy for ALS Hussein Ghazale (Toronto, Canada)
5:28 pm	T21-002B	miR-25 reprograms murine primary Müller glia into functional mature neurons Seoyoung Kang (New York, USA)
5:29 pm	T21-003B	Reprogramming of glial progenitor-like cells from adult DRG with developmental transcription factors Annemarie Schulte (Würzburg, Germany)
5:30 pm	T21-004B	Müller glia mediated retinal repair in the African turquoise killifish: a mammalian-like outcome Pieter-Jan Serneels (Leuven, Belgium)



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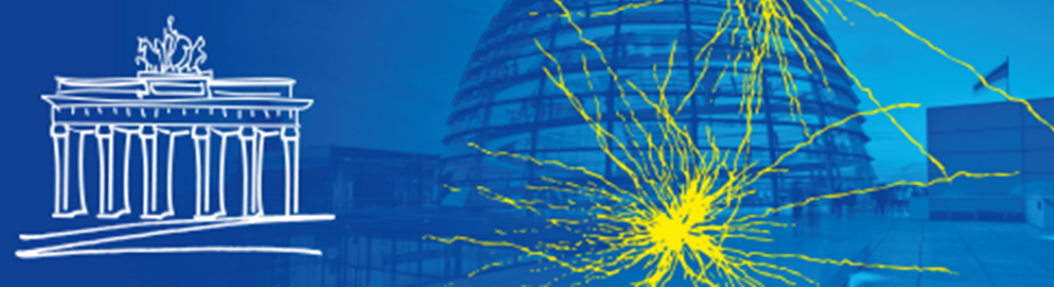


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| 5:31 pm | T21-005B | Activation of the neurogenic potential in 3D bioprinted astrocytes
Elisa Marozzi Cruz (Sao Paulo, Brazil) |
| 5:32 pm | T21-006B | Influence of the starter cell in direct neuronal reprogramming
Giacomo Masserdotti (Planegg-Martinsried, Germany) |
| 5:33 pm | T21-007B | Investigating a gene regulatory network and developmental trajectory for promoting parvalbumin neuronal fate during reprogramming
Christina-Anastasia Stamouli (Lund, Sweden) |
| 5:34 pm | T21-008B | Unlocking the regenerative potential of the mammalian retina
Luke A. David (Montreal, Canada) |
| 5:35 pm | T24-013B | Defining the role of hypoxia and glioblastoma secreting factors in STAT3-mediated astrocyte reactivity
Sebastien Serres (Nottingham, UK) |
| 5:36 pm | T24-014B | Elucidating the Role of Microglia in Neuron-Glioma Circuitry
Rebecca Mancusi (Stanford, USA) |
| 5:37 pm | T24-015B | The Thrombin Receptor PAR1 is Located Intracellularly on Microtubules, Modulating Mitosis and Process Formation in Glioma Cells.
Valery Golderman (Tel-Aviv, Israel) |
| 5:38 pm | T24-016B | Molecular mechanisms of perineural invasion in pancreatic cancer
Elia Pennati (Milan, Italy) |
| 5:39 pm | T24-017B | Hepatocellular carcinoma is associated with increased oxidative stress and glial cell activity in mouse suprachiasmatic nucleus and decreased amplitude in rhythmic spontaneous locomotor activity
Amira A.H. Ali (Düsseldorf, Germany) |
| 5:40 pm | T24-018B | Functional consequences of IDH1 and CIC mutations on oligodendroglioma cells of origin
Nina Pottier (Paris, France) |



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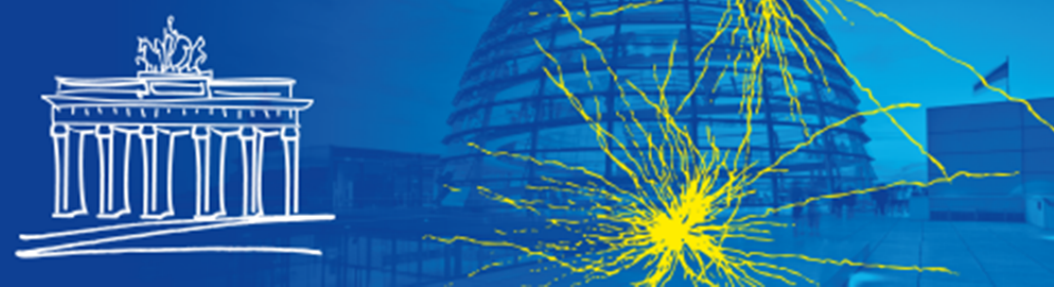


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| 5:41 pm | T24-019B | Investigating the region-specific effects of oncohistone H3 K27M in oligodendrocyte development
Kaitlin M. Budd (Memphis, USA) |
| 5:42 pm | T24-020B | Glioblastoma cell motility depends on enhanced oxidative stress coupled with mobilization of a sulfurtransferase
Elias A. El-Habr (Paris, France) |
| 5:43 pm | T24-021B | Deep brain three-photon imaging of microglia glioma interaction at the invading front in corpus callosum
Felix C. Nebeling (Bonn, Germany) |
| 5:44 pm | T24-022B | Changes in mitochondrial redox state and lipid-protein composition of cells in tumoral and peritumoral regions under high-and low-grade gliomas
Kseniia Morozova (Moscow, Russia) |
| 5:45 pm | T24-023B | Interaction of Glia Cells with Glioblastoma and Melanoma Cells under the Influence of Phytocannabinoids
Christoph Walsleben (Halle, Germany) |
| 5:46 pm | T25-021B | Glial response in the spinal cord after single moderate and repetitive mild traumatic brain injury in mice
Tamara Jankovi? () |
| 5:47 pm | T25-022B | Human fetal microglia acquire homeostatic immune-sensing properties early in development
Laura Kracht () |
| 5:48 pm | T25-023B | Oligodendroglial ADAM10: an architect of central nervous system re/myelination
Mathis Lavaud () |
| 5:49 pm | T25-024B | Human Umbilical Cord-derived Mesenchymal Stem Cells as a strategy to limit neuroinflammation in an in vitro model of Encephalopathy of Prematurity
Marta Tiffany Lombardo () |
| 5:50 pm | T25-025B | Myelin Regulated Learning/Memory Issues in RASopathies: Lifetime Progression in Mouse Models
Alejandro Lopez Juarez () |
| 5:51 pm | T25-026B | Understanding the role of astrocytes in epilepsy using human iPSC-derived models
Nadine Maas () |

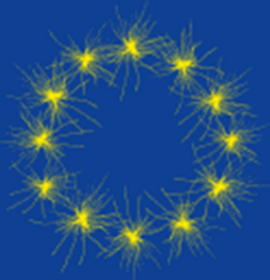


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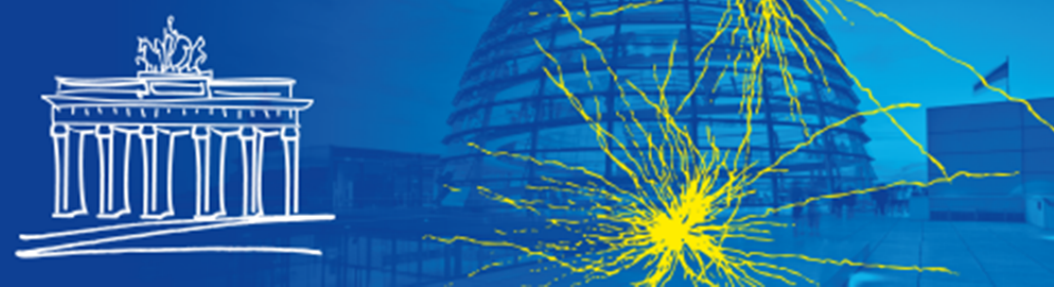


5:52 pm	T25-027B	A role for Tcf4 in correct oligodendrogenesis and myelination Simone Mesman ()
5:53 pm	T25-028B	Does cannabinoid receptor signaling alter oligodendrocyte myelination? Tania Miramontes ()
5:54 pm	T25-029B	Oligodendroglial cell lineage in aging and in disease Sarah Moyon ()
5:55 pm	T25-030B	Drebrin controls scar formation and astrocyte reactivity upon traumatic brain injury by regulating membrane trafficking Kai Murk ()
5:56 pm	T25-031B	AAV-mediated gene transfer of CDNF protects dopamine neurons, controls ER stress, and inflammation in acute MPTP animal models of Parkinson's disease Jinhan Nam ()
5:57 pm	T25-032B	Effects of caloric restriction on sex-specific in vivo functional properties of microglia in a mouse model of Alzheimer's disease Kuang Pan ()
5:58 pm	T25-033B	Human iPSC-microglia from ABI3 S209F individuals do not show significant functional or metabolic deficits in vitro Maria Samuela Pasculli ()
5:59 pm	T25-034B	Investigating ALS-Relevant Effects of Cortical Hyperexcitability in a Human-Derived Motor System Taylor Pio ()
6:00 pm	T25-035B	Chemotherapy can affect Satellite Glial Cells in Dorsal Root Ganglia of neuropathic rats Eleonora Pozzi ()
6:01 pm	T25-036B	Decipher the mechanisms driving cutaneous neurofibromas development in a mouse model of Neurofibromatosis type I Pernelle Pulh ()
6:02 pm	T25-037B	Optimization of a dorsal root ganglia clearing protocol coupled to immunohistochemistry Andreia Ramos ()

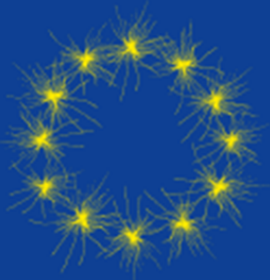


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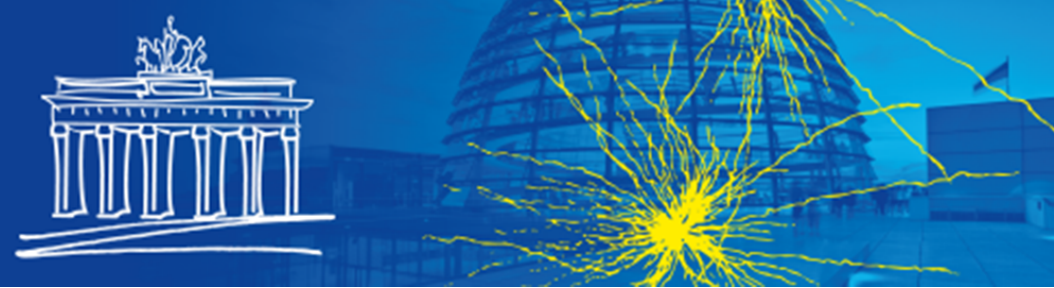
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| 6:03 pm | T25-038B | Extracellular calcium release mediates polarized motility and displacement of microglial cells in a scenario of parkinsonian neurodegeneration
Meritxell Roig-Martínez () |
| 6:04 pm | T25-039B | Synergic metabolic signalling by noradrenaline and K ⁺ in astrocytes
Ivan Ruminot () |
| 6:05 pm | T25-040B | Genetic manipulation of cell cycle of oligodendrocyte progenitors triggers their expansion in adult mammalian brain
Sonali Salvi () |
| 6:06 pm | T25-041B | Disruption in actin cytoskeletal organization drives myelin fragmentation and limited axonal regeneration
Edith Segura-Anaya () |
| 6:07 pm | T25-042B | Human iPSC-derived neuron-astrocyte co-culture to study aspects of Alzheimer's disease
Sybille Seiler () |



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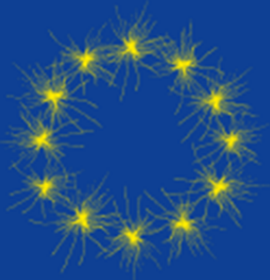
Sunday, 9 July, 2023, 4:00 p.m. - 6:00 p.m.

S11 | The many faces of Schwann cells: new roles and different perspectives

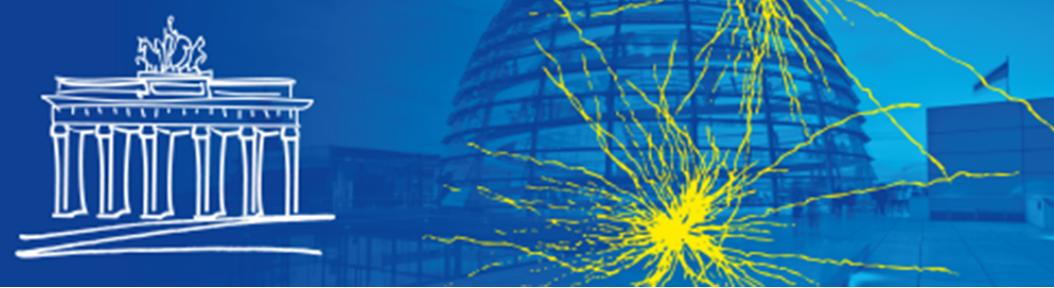
Chairs: **Katharina Scherschel** (Düsseldorf, Germany); **Jose Antonio Gomez Sanchez** (Alicante, Spain)

Presentations:

- | | | |
|---------|--------|---|
| 4:00 pm | S11-01 | The role of peripheral glial cells in skin wound healing and skin cancer
Lukas Sommer (Zurich, Switzerland) |
| 4:30 pm | S11-02 | Schwann cell plasticity in injured human nerves and peripheral neuroblastic tumors
Tamara Weiss (Vienna, Austria) |
| 5:00 pm | S11-03 | <i>Glial cells in the heart - what we know and what we don't</i>
Katharina Scherschel (Düsseldorf, Germany) |
| 5:30 pm | S11-04 | Live imaging of Schwann cells during corneal nerve regeneration
Jose Antonio Gomez Sanchez (Alicante, Spain) |



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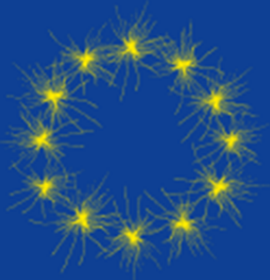
Sunday, 9 July, 2023, 4:00 p.m. - 6:00 p.m.

S12 | The circuit logic of myelination - when, where, and why

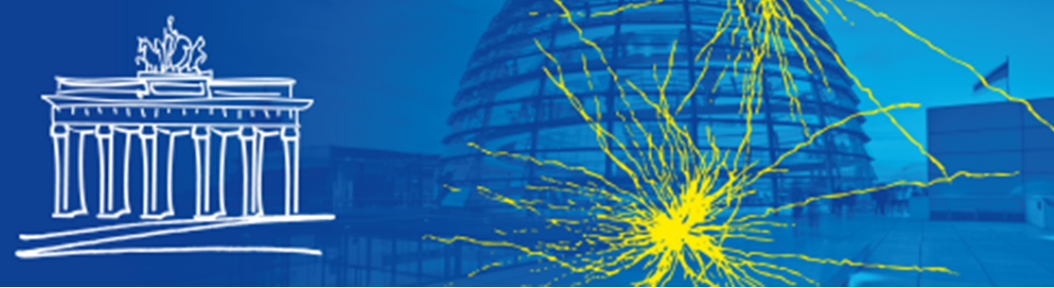
Chairs: **Wendy Xin** (San Francisco, USA); **Ethan Hughes** (Aurora, USA)

Presentations:

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|---------|--------|---|
| 4:00 pm | S12-01 | Imaging and regulating white matter plasticity in healthy humans and stroke patients
Cassandra Sampaio-Baptista (Glasgow, UK) |
| 4:30 pm | S12-02 | Dynamics of Myelination on Behaviorally-Activated Axons
Ethan G. Hughes (Aurora, USA) |
| 5:00 pm | S12-03 | Oligodendrocytes and myelin restrict experience-dependent neuronal plasticity in the visual cortex
Wendy Xin (San Francisco, USA) |
| 5:30 pm | S12-04 | Myelination and the temporal dynamics of corticothalamic oscillations
Maarten H. Kole (Amsterdam, Netherlands) |



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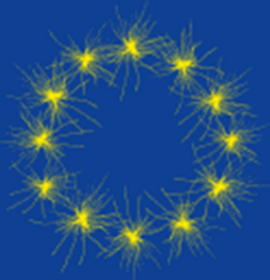
Sunday, 9 July, 2023, 4:00 p.m. - 6:00 p.m.

S13 | mRNA localization and translation in glial cells: local events with broad roles

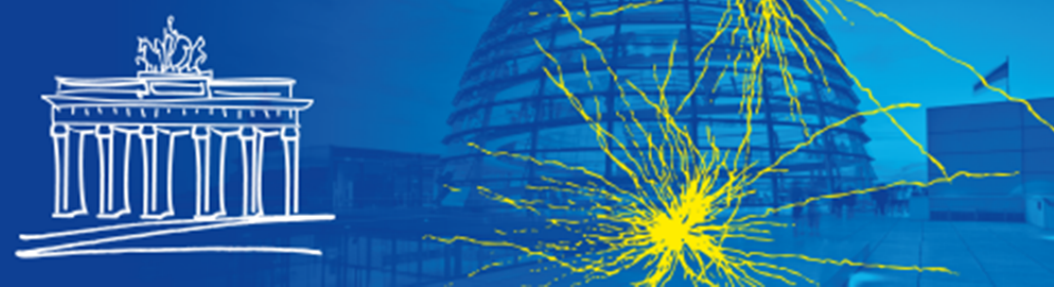
Chairs: **Martine Cohen-Salmon** (Paris, France)

Presentations:

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|---------|--------|--|
| 4:00 pm | S13-01 | <i>Mbp</i> 3'UTR Knockout Perturbs mRNA Transport, Myelination, and Motor Learning
Meng-meng Fu (Berkeley, USA) |
| 4:30 pm | S13-02 | Local translation in microglial peripheral processes
Jimena Baleriola (Leioa, Spain) |
| 5:00 pm | S13-03 | Alternative Translation and Local Translation in Glia
Joseph Dougherty (SAINT LOUIS, USA) |
| 5:30 pm | S13-04 | mRNA localization and translation in glial cells: local events with broad roles
Martine Cohen-Salmon (Paris, France) |



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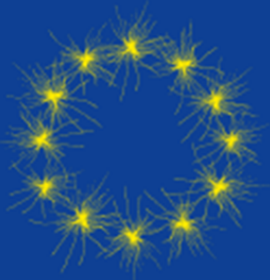
Sunday, 9 July, 2023, 4:00 p.m. - 6:00 p.m.

S14 | The tripartite synapse under metabolic stress

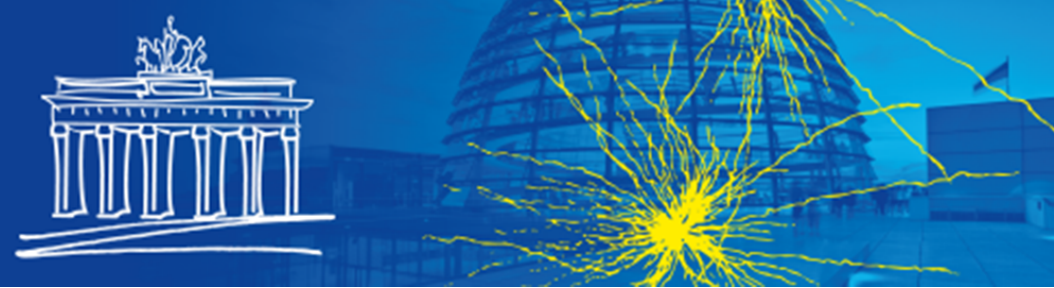
Chairs: **Christine R. Rose** (Duesseldorf, Germany); **Christian Henneberger** (Bonn, Germany)

Presentations:

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|---------|--------|---|
| 4:00 pm | S14-01 | Mechanisms and pathological relevance of Na ⁺ dysregulation upon metabolic stress
Christine R. Rose (Duesseldorf, Germany) |
| 4:30 pm | S14-02 | Rapid changes of glutamate signaling in response to acute metabolic stress
Christian Henneberger (Bonn, Germany) |
| 5:00 pm | S14-03 | The contribution of astrocytes to ischemia-related cerebral edema formation and increased neuronal excitability
Eszter Farkas (Szeged, Hungary) |
| 5:30 pm | S14-04 | Data-driven modelling of the tripartite synapse under acute metabolic stress
Ghanim Ullah (Tampa, FL, USA) |



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Sunday, 9 July, 2023, 4:00 p.m. - 6:00 p.m.

S15 | Heterogeneity and function of microglia in brain stem cell niches

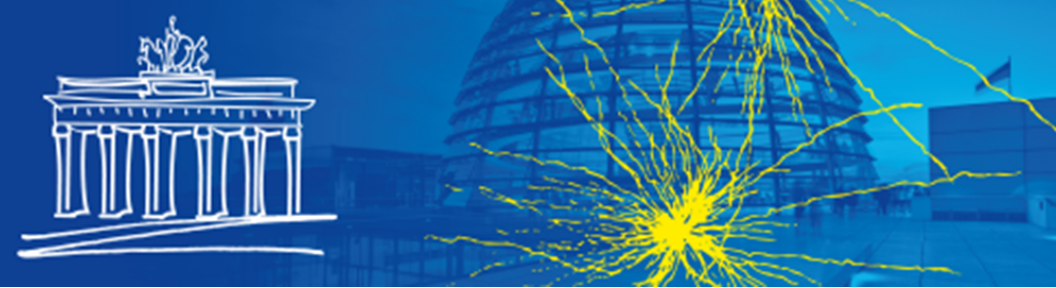
Chairs: **Francis Szele** (Oxford, UK)

Presentations:

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|---------|--------|---|
| 4:00 pm | S15-01 | Microglia lining the lateral ventricles contribute to a unique neuroinflammatory niche
Francis Szele (Oxford, UK) |
| 4:30 pm | S15-02 | Pre-activated microglia in the human subventricular zone
Istvan Adorjan (Budapest, Hungary) |
| 5:00 pm | S15-03 | Microglia and adult neurogenesis in the human hippocampal neurogenic niche
Maria Llorens-Martín (Madrid, Spain) |
| 5:30 pm | S15-04 | Specification of CNS macrophage subsets occurs postnatally in defined niches
Marco Prinz (Freiburg, Germany) |



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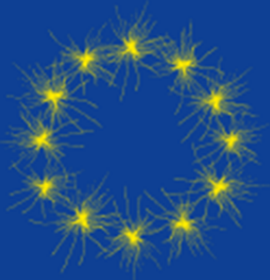
Sunday, 9 July, 2023, 6:00 p.m. - 7:00 p.m.

L04 | Plenary Lecture IV: Shane Liddelow

Chairs: Nicola Allen (La Jolla, USA)

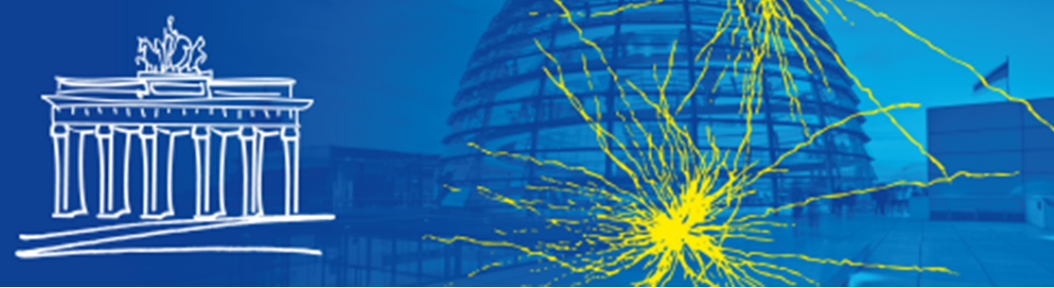
Presentations:

6:00 pm L04-01 Novel reactive astrocyte sub-states and function
Shane Liddelow (New York, USA)



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Monday, 10 July, 2023, 8:30 a.m. - 9:30 a.m.

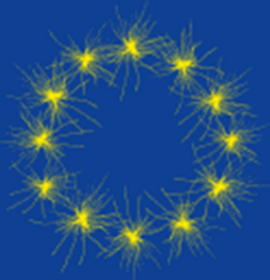
L05 | Plenary Lecture V: Ragnhildur Thora Karadottir

Chairs: **Gonalo Castelo-Branco** (Stockholm, Sweden)

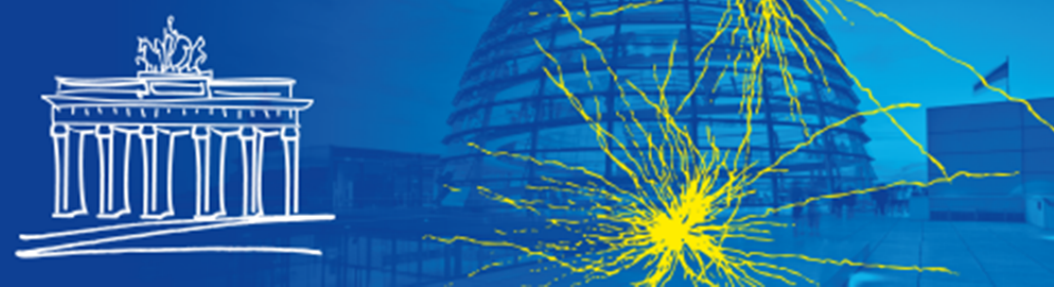
Presentations:

8:30 am L05-01 Awarding of Network Glia Stipends

8:35 am L05-02 Neuronal activity modulates myelin plasticity and regeneration
Ragnhildur Thóra K  rad  ttir (Cambridge, UK)



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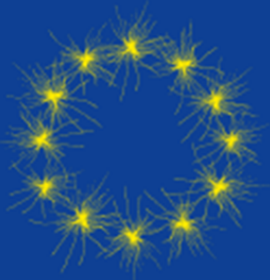
Monday, 10 July, 2023, 10:00 a.m. - 12:00 p.m.

S16 | The role of Schwann cell metabolism in regulating neuronal function and viability

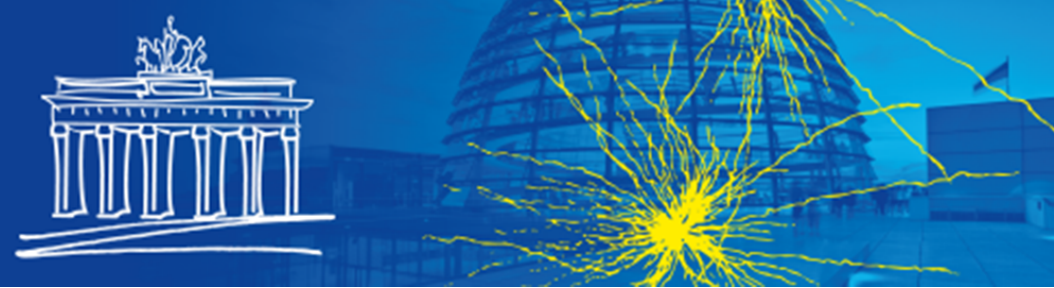
Chairs: **Bruce Carter** (Nashville, USA); **Sung Ok Yoon** (Columbus, USA)

Presentations:

- | | | |
|----------|--------|---|
| 10:00 am | S16-01 | Sensory neuron survival during development depends on the crosstalk with Schwann cells
Sung Ok Yoon (Columbus, USA) |
| 10:30 am | S16-02 | The p75 neurotrophin receptor regulates Schwann cell lipid metabolism, thereby indirectly modulating sensory neuron viability
Bruce D. Carter (Nashville, USA) |
| 11:00 am | S16-03 | Gimme more lactate: Glial phospho-enol pyruvate kinase type 2 (PKM2) is a key factor of myelinated axons function and survival
Nicolas Tricaud (Corbeil-Essonnes, France) |
| 11:30 am | S16-04 | Schwann cells respond to axon injury with distinct neuroprotective programs
Bogdan Beirowski (Columbus, OH, USA) |



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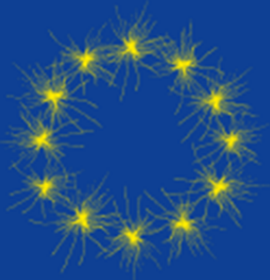
Monday, 10 July, 2023, 10:00 a.m. - 12:00 p.m.

S17 | Understanding the role of cell-cell interactions involving microglia in CNS homeostasis and neuroinflammation

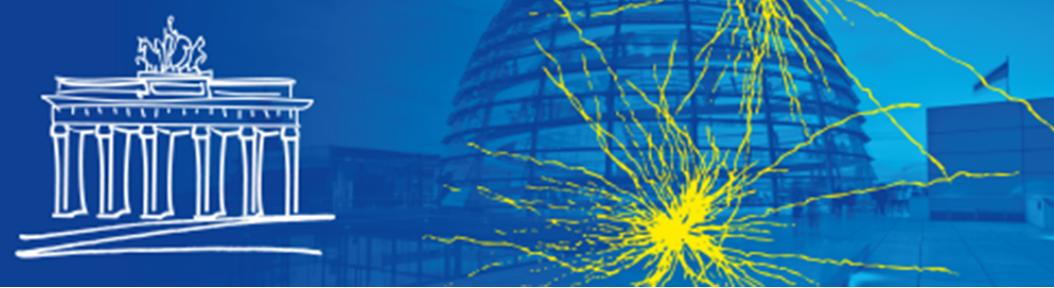
Chairs: **Roland Liblau** (Toulouse, France); **Ari Waisman** (Mainz, Germany)

Presentations:

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|----------|--------|--|
| 10:00 am | S17-01 | Regulation and Function of Brain Border-Associated Macrophages
Melanie Greter (Zürich, Switzerland) |
| 10:30 am | S17-02 | Microglial A20 Protects the Brain from CD8 T-Cell-Mediated Immunopathology and is important for the brain homeostasis
Ari Waisman (Mainz, Germany) |
| 11:00 am | S17-03 | Lung microbiome—microglia connections via the lung-brain axis control CNS autoimmunity.
Francesca Odoardi (Göttingen, Germany) |
| 11:30 am | S17-04 | The microglia – tissue-resident T cell interplay drives compartmentalized and chronic autoimmune damage
Roland LIBLAU (TOULOUSE, France) |



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Monday, 10 July, 2023, 10:00 a.m. - 12:00 p.m.

S18 | Understanding the role of oligodendrocytes in neurodegenerative disorders: human and animal studies

Chairs: **Mahmoud Pouladi** (Vancouver, Canada); **Anna Williams** (Edinburgh, UK)

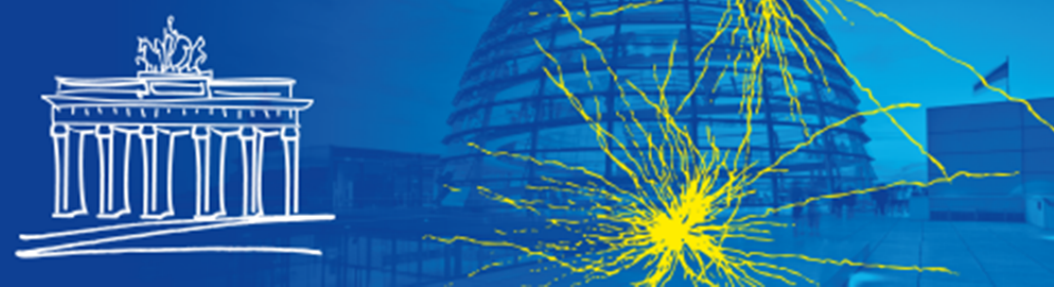
Presentations:

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| 10:00 am | S18-01 | Using transcriptome and epigenome profiling to better understand the role of oligodendrocytes in neurodegenerative disorders
Julia Schulze-Hentrich (Saarbrücken, Germany) |
| 10:30 am | S18-02 | <i>Deciphering the glial functions of TDP-43</i>
Shuo-Chien Ling (Singapore, Singapore) |
| 11:00 am | S18-03 | Myelination and oligodendrocyte abnormalities in models of Huntington disease
Mahmoud A. Pouladi (Vancouver, Canada) |
| 11:30 am | S18-04 | How do oligodendrocytes change in multiple sclerosis and Huntington's disease and how can we manipulate this for benefit?
Anna Williams (Edinburgh, UK) |



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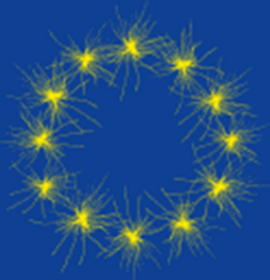
Monday, 10 July, 2023, 10:00 a.m. - 12:00 p.m.

S19 | Bioengineering meets glia: biomaterials applications to study glia and glial-associated disorders (Special Trainee Symposium)

Chairs: **Eva Carvalho** (Porto, Portugal); **Emanuela Saracino** (Bologna, Italy)

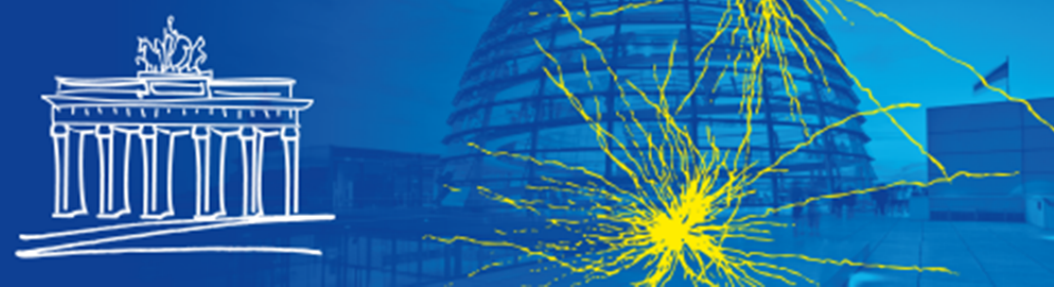
Presentations:

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|----------|--------|---|
| 10:00 am | S19-01 | Oligodendrocytes' "feelings": a tissue engineered model to study the mechanobiology of myelination
Eva D. Carvalho (Porto, Portugal) |
| 10:20 am | S19-02 | Nanostructured materials and Nano-probes to modulate the functional activity of astrocytes.
Emanuela Saracino (Bologna, Italy) |
| 10:40 am | S19-03 | Nanomedicines for the induction of OPC differentiation and remyelination
Ariane Mwema (Bruxelles, Belgium) |
| 11:00 am | S19-04 | A biofabrication technology for complex 3D <i>in vitro</i> neural co-cultures containing microchannels in hydrogels
Adrián Seijas-Gamardo (Maastricht, Netherlands) |
| 11:20 am | S19-05 | A soft cryogel scaffold for creating focal regions of demyelination on brain slice cultures
Lida Zoupi (Edinburgh, UK) |
| 11:40 am | S19-06 | Hyaluronic acid-based devices for transcranial drug delivery to tackle neurodegenerative diseases
Mansoor Al-waeel (Galway, Ireland) |



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Monday, 10 July, 2023, 10:00 a.m. - 12:00 p.m.

S20 | Wrapping memories with myelin

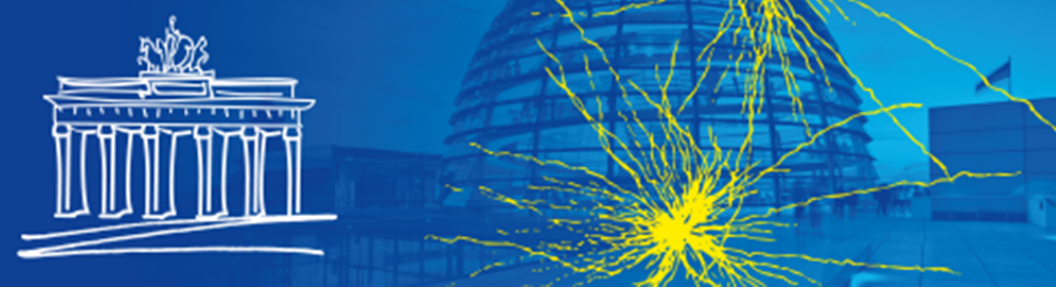
Chairs: **Mohit Dubey** (Amsterdam, Netherlands)

Presentations:

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|----------|--------|---|
| 10:00 am | S20-01 | Chemogenetic activation of hippocampal CAMKII α -expressing neurons accelerates remyelination and improves cognition in lysolecithin-induced demyelination.
Olamide Adebisi (London, Canada) |
| 10:30 am | S20-02 | Myelin dysfunction drives amyloid deposition in mouse models of Alzheimer's disease
Constanze Depp (Göttingen, Germany) |
| 11:00 am | S20-03 | Myelination-associated microglia-C1q protein changes during early dementia development.
Mohit Dubey (Amsterdam, Netherlands) |
| 11:30 am | S20-04 | The role of myelin in the etiology of tau pathology in Alzheimer's disease.
Michael Ewers (Munich, Germany) |



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Monday, 10 July, 2023, 12:15 p.m. - 1:15 p.m.

W02 | Student Lecture: Successful Scientific Publishing

Chairs:

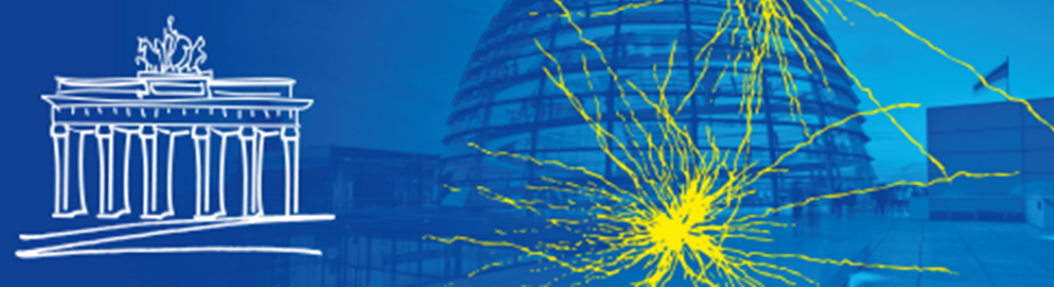
Presentations:

12:15 pm W02-01 Successful scientific publishing
Bruce R. Ransom (Hong Kong, China)



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Monday, 10 July, 2023, 1:00 p.m. - 4:00 p.m.

PS3 | Poster Session III

Chairs:

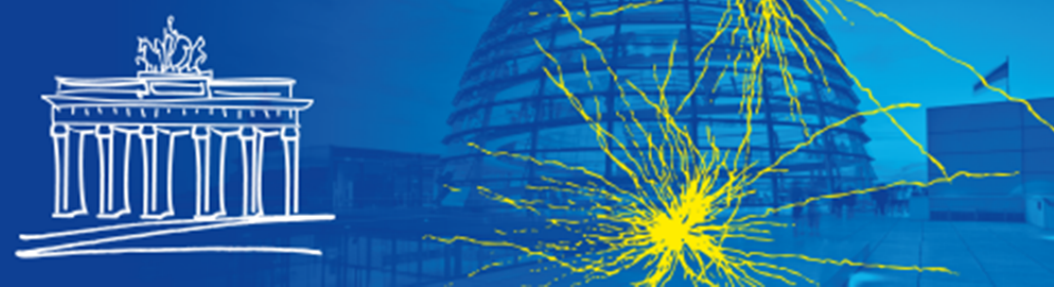
Presentations:

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|---------|----------|---|
| 1:00 pm | T02-021C | Myeloid progenitor cells can efficiently repopulate the CNS as microglia-like cells
Konstantina Kolotourou (Göttingen, Germany) |
| 1:01 pm | T02-022C | Mapping Cortical Astrocyte Emergence and Distribution from V-SVZ Neural Stem Cells
Daniela A. Lozano Casasbuenas (Toronto, Canada) |
| 1:02 pm | T02-023C | Single cell sequencing and functional analysis of early differentiated glia in human and mouse.
Paul Frazel (New York, USA) |
| 1:03 pm | T02-024C | Role in neural stem cell differentiation of CHD8 and CHD7, chromatin remodelers, implicated in Autism Spectrum Disorder
Morgane Pigache (Paris, France) |
| 1:04 pm | T02-025C | Epigenetic regulation of Schwann Cells differentiation through DNA methylation, histone deacetylation and oxidative stress-response
Tasnim Mohamed (Milan, Italy) |
| 1:05 pm | T02-026C | Oligodendrocytes aberrantly re-enter the cell cycle and die following neurotrauma
Chidozie Anyaegbu (Nedlands, Australia) |
| 1:06 pm | T02-027C | Impaired proliferation of oligodendrocyte precursor cells in aged mice following traumatic brain injury
Georgios Michalettos (Lund, Sweden) |
| 1:07 pm | T02-028C | A mechanistic view of TGF- β -mediated microglia cell fate in the zebrafish embryo
Valerie Wittamer (Brussels, Belgium) |



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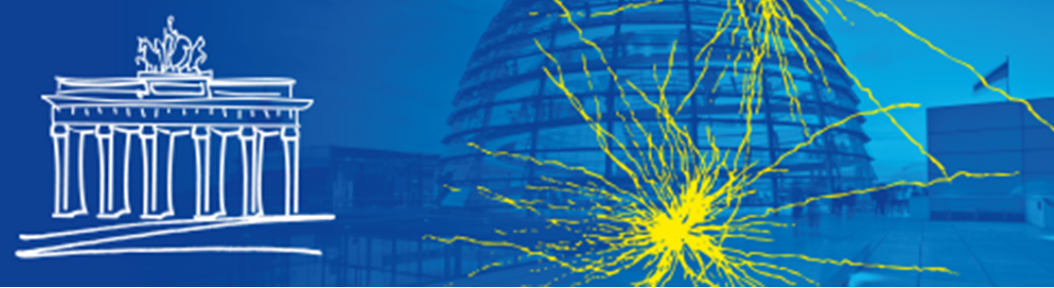


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| 1:08 pm | T02-029C | The effect of siponimod on oligodendrocyte precursor cell proliferation and maturation in naïve mice
Julie Damgaard Jakobsen (Odense C, Denmark) |
| 1:09 pm | T02-030C | Determining the role of RXRg in oligodendrogenesis using reporter system
Quentin Brassart (ILLKIRCH, France) |
| 1:10 pm | T05-060C | Characterization of microglial population expansion and activation state in the cerebral cortex of a TgF344-AD rat model
Julie S. Hansen (Odense, Denmark) |
| 1:11 pm | T05-061C | PROTECTIVE EFFECTS OF <i>ARONIA MELANOCARPA</i> EXTRACT ON THE ASTROCYTES IN THE <i>IN VITRO</i> MODEL OF PARKINSON'S DISEASE
Nika Gržeta (Rijeka, Croatia) |
| 1:12 pm | T05-062C | <i>APOE</i> genotype influences astrocyte-mediated spreading of pathogenic tau aggregates
Tobias Mothes (Uppsala, Sweden) |
| 1:13 pm | T05-063C | Reactive astrocytes impair human motor units through both gain-of-toxicity and loss-of-support mechanisms in amyotrophic lateral sclerosis (ALS)
Katarina Stoklund Dittlau (Leuven, Belgium) |
| 1:14 pm | T05-064C | Mouse strain-specific microglial phenotype in aging
Marie J. Pietrowski (Bonn, Germany) |
| 1:15 pm | T05-065C | GABA _B receptor activation modulates oligodendrocyte progenitor cell activity and ameliorates experimental multiple sclerosis
Laura Bayón-Cordero (Leioa, Spain) |
| 1:16 pm | T05-066C | Modeling Alexander's Disease using stem cells, genome editing and forward programming
Oskar G. Zetterdahl (Lund, Sweden) |
| 1:17 pm | T05-067C | Pulse-modulated 1800 MHz electromagnetic fields affect gene expression in lipopolysaccharide-activated microglia
Michel Mallat (Paris, France) |
| 1:18 pm | T05-068C | Hippocampal neuroimmune reactivity in adult and aged male rats following binge-like alcohol exposure
Erika R. Carlson (Austin, USA) |



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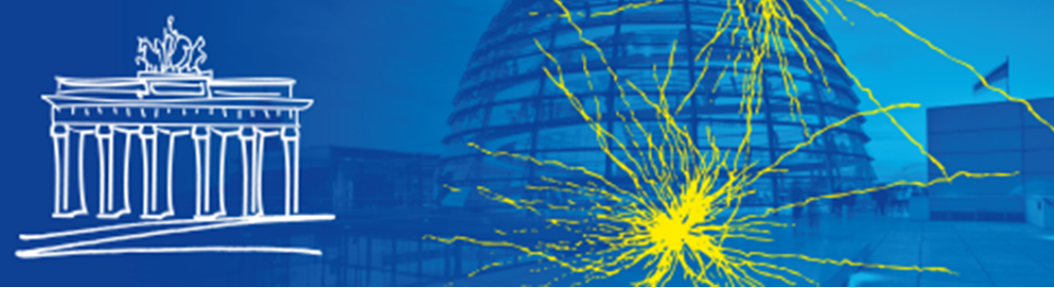


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| 1:19 pm | T05-069C | Increased surface expression of P2X4 receptors in microglia/macrophages ameliorates experimental multiple sclerosis in females
Paloma Mata (Leioa, Bizkaia, Spain) |
| 1:20 pm | T05-070C | Astrocytes generated from iPSC of Megalencephalic leukoencephalopathy with subcortical cysts (MLC) donors show phenotype associated with disease and reveal novel dysfunctional molecular pathways and possible druggable targets for therapeutic purposes
Elena Ambrosini (Rome, Italy) |
| 1:21 pm | T05-071C | Combinatorial effect of genetic factors predicts microglia dysfunction in Alzheimer's Disease
Gonzalo Leguia Fauro (Antwerp, Belgium) |
| 1:22 pm | T05-072C | Air pollution and neurodegeneration: an <i>in vitro</i> study of the role of astrocytes in magnetite nanoparticles-induced neurotoxicity
Ludovica Carpinelli (Rome, Italy) |
| 1:23 pm | T05-073C | Comprehensive characterization of APP ^{NL-F} mice a promising model to study Alzheimer's disease early stages
Helene Hirbec (Montpellier, France) |
| 1:24 pm | T05-075C | Co-labeling Strategy for Analyzing Astrocyte Morphology in a Rat Model of Alcohol Use Disorder
Steven P. Guerin (Austin, USA) |
| 1:25 pm | T05-077C | Pyruvate dehydrogenase kinase 2 knockdown restores the ability of ALS-linked SOD1G93A rat astrocytes to support motor neuron survival
Ernesto Miquel (Montevideo, Uruguay) |
| 1:26 pm | T05-078C | Gas6 protein is secreted by brain glial cells and is present at different levels in human neurodegenerative diseases
Nadide Aydin (Portsmouth/Southsea, UK) |
| 1:27 pm | T05-079C | A Novel preclinical human <i>Ex-vivo</i> Cerebellum Model: For a Bench to Bedside Research
Junyi Zhang (Freiburg im Breisgau, Germany) |
| 1:28 pm | T05-080C | Higher throughput glial assays to screen compounds in neurodegeneration drug discovery
Rebeka Popovic (London, UK) |



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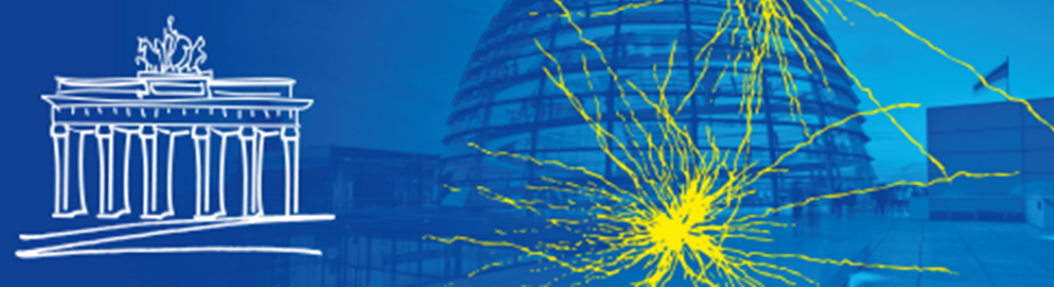


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| 1:29 pm | T05-081C | Loss of TDP-43 in microglia leads to abnormal brain development
Anne-Claire Compagnion (Lausanne, Switzerland) |
| 1:30 pm | T05-082C | Examination of the relevance of noradrenergic transmission in astrocytes in in vitro and in vivo models of presymptomatic Parkinson's disease.
Justyna Barut (Kraków, Poland) |
| 1:31 pm | T05-083C | The neuroprotective effects of stimulating astroglia in a rat model of neurodegeneration
Jessica L. McNeill (Ottawa, Canada) |
| 1:32 pm | T05-084C | How Does Aging Affect Microglia and OPCs?
Ebb M. Vang (Reykjavík, Iceland) |
| 1:33 pm | T05-085C | TREM2 impacts brain microglia, oligodendrocytes and endothelial co-expression modules revealing genes and pathways important in Alzheimer's disease
Angela Hodges (London, UK) |
| 1:34 pm | T05-086C | Contribution of $K_{ir4.1}$ dysfunction in spinal astrocytes to the pathogenesis of late-onset SMA
Christina David (Essen, Germany) |
| 1:35 pm | T05-087C | Role of CERT1 in control of microglia biology in mice – relevance for cognitive functions
Yash Parekh (ILLKIRCH, France) |
| 1:36 pm | T05-088C | Neuronal Tau Pathology Alters Human Microglial Morphology, Transcriptome, and Function
Zahara Keulen (Irvine, USA) |
| 1:37 pm | T06-024C | Multi-omics analyses reveal impaired lipid metabolism and oxidative stress in a zebrafish model of Alexander disease
Deianira Bellitto (Genoa, Italy) |
| 1:38 pm | T06-025C | Impaired neuronal and glial calcium signaling and glucose metabolism in aged <i>Drosophila</i> brain
Urška ?erne (Ljubljana, Slovenia) |
| 1:39 pm | T06-026C | Translocator protein 18kDa (TSPO) regulation of astrocyte metabolic flexibility
Wyn Firth (Exeter, UK) |



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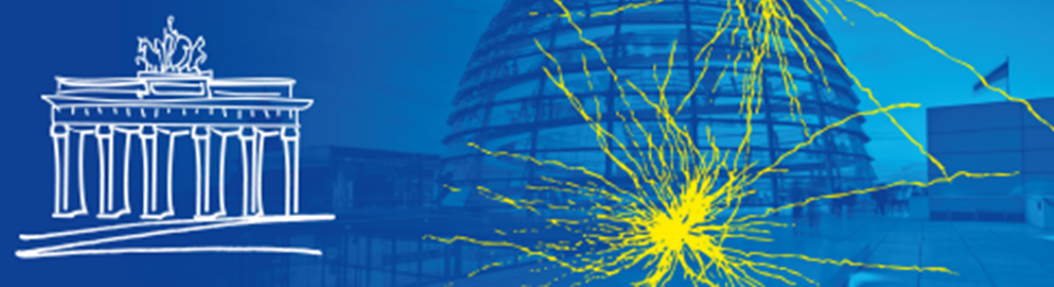


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| 1:40 pm | T06-027C | Stress stimuli trigger lipid droplet accumulation in astrocytes
Anemari Horvat (Ljubljana, Slovenia) |
| 1:41 pm | T06-028C | The influence of cold exposure on glial physiology in <i>Drosophila</i>
Nina Surina (Dresden, Germany) |
| 1:42 pm | T06-029C | Microglia Regulation of Neuronal Metabolism and mRNA Translation
Drew Adler (New York, USA) |
| 1:43 pm | T06-030C | Metabolic differences in mouse and human microglia during inflammation
Alejandro Marmolejo (Groningen, Netherlands) |
| 1:44 pm | T06-031C | Pathophysiological consequences of microcephaly-associated mutations in the asparagine synthetase (ASNS) gene
Anja Reinert (Leipzig, Germany) |
| 1:45 pm | T06-032C | Structural remodeling of microglial mitochondria across brain regions and developmental stages
Katherine Espinoza (Los Angeles, USA) |
| 1:46 pm | T06-033C | Region-specific and sex-independent glutamate regulation of mitochondrial fatty acid catabolism in astrocytes demonstrated by different experimental approaches
Francina Bagur Llufríu (Cerdanyola del Vallès, Spain) |
| 1:47 pm | T06-034C | Hypothalamic glial cells and metabolic alterations in the mouse model of Alzheimer's disease 5xFAD
José Joaquín Ochoa Navarro (Alcorcón, Spain) |
| 1:48 pm | T07-007C | Studying CEPsh glia in <i>C. elegans</i> uncovers factors of early development and lifelong maintenance of astroglia architecture
Francesca Caroti (Heidelberg, Germany) |
| 1:49 pm | T07-008C | Brevikine generated by extracellular proteolysis of astrocyte-released brevican activates ERK1/2 signaling and induces neurite outgrowth in hippocampal neurons
Marina Guizzetti (Portland, USA) |
| 1:50 pm | T07-009C | Matrix Metalloproteinase 1 and NinjurinA Govern Glial Responses to Neurodegeneration
Cole Brashaw (Portland, USA) |



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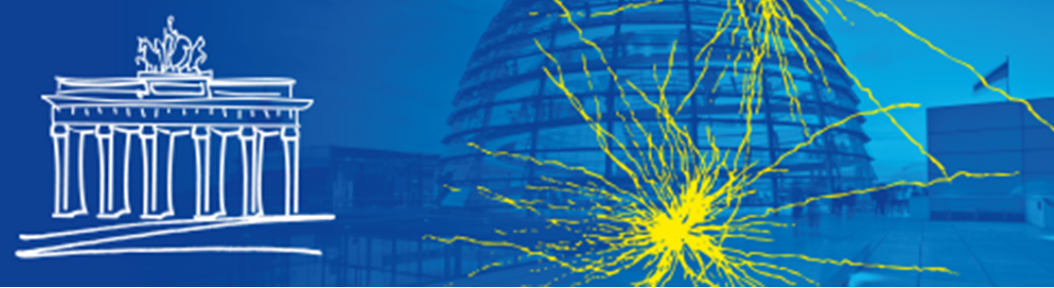


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| 1:51 pm | T07-010C | Rescue of cognitive and synaptic functions in aged mice by microglial modulation through inhibition of the colony stimulating factor-1 receptor
Luisa Strackeljan (Magdeburg, Germany) |
| 1:52 pm | T07-011C | Adhesion GPCR dissociation in glia controls neural progenitor cell number
Nicole Scholz (Leipzig, Germany) |
| 1:53 pm | T07-012C | Untangling remyelination failure in multiple sclerosis: absence of matrix metalloproteinase 7 does not lead to fibronectin aggregate formation
Rianne P. Gorter (Groningen, Netherlands) |
| 1:54 pm | T08-019C | IFN γ mediated repression of enteric glial cell <i>Sox10</i> drives gut inflammation
Jay V. Patankar (Erlangen, Germany) |
| 1:55 pm | T08-020C | Reduced ABCA1 expression and disrupted cholesterol homeostasis in human and mouse astrocytes modeling fragile X syndrome
Karo Talvio (Helsinki, Finland) |
| 1:56 pm | T08-021C | Exploring transcriptional cascades in cortical astrocytes: the role of Sox9 and Trps1
Poornemaa Natarajan (Munich, Germany) |
| 1:57 pm | T08-022C | A CRISPRi/a screen to identify regulators of human oligodendrocyte precursor cell specification
Neemat Mahmud (Stockholm, Sweden) |
| 1:58 pm | T08-023C | Gene expression profiling of remyelinating lesions in MS donors with different remyelinating capacity
Alida Chen (Amsterdam, Netherlands) |
| 1:59 pm | T08-024C | Ribosomal tagging (Ribotag) in Astrocytes: Methodological approach for extracting mRNA from small brain tissue samples in short period of time
Despoina Binou (Jena, Germany) |
| 2:00 pm | T08-026C | Heterogeneous contribution of pericytes and perivascular fibroblasts to fibrotic scar tissue after CNS injury
Daniel Holl (Solna, Sweden) |
| 2:01 pm | T08-027C | Perinatal estrogen differentially masculinizes expression of astroglial markers in the developing neocortex
Gareth M. Rurak (Ottawa, Canada) |



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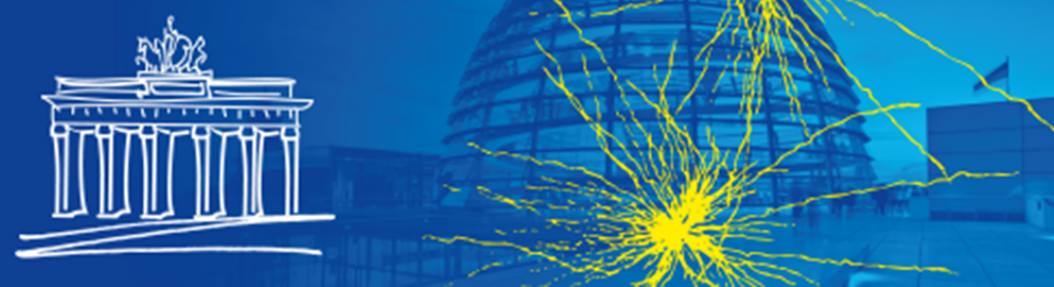


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| 2:02 pm | T08-028C | The role of the intellectual disability gene and histone demethylase Phf8 in oligodendroglia
Marco Kremp (Erlangen, Germany) |
| 2:03 pm | T10-031C | Astrocyte heterogeneity in the ageing cortex
Maroussia Hennes (Planegg-Martinsried, Germany) |
| 2:04 pm | T10-032C | Early exposure to Inflammation imbalance immune and developmental populations of microglia
Juliette Van Steenwinckel (Paris, France) |
| 2:05 pm | T10-033C | Origin and diversity of cortical astrocytes
Jiafeng Zhou (Geneva, Switzerland) |
| 2:06 pm | T10-034C | Uncovering two faces of reactivity: Microenvironment dependent subtypes of astrocytes contribute to the pathogenesis in a MSA mouse model
Yanni Schneider (Erlangen, Germany) |
| 2:07 pm | T10-035C | Hallmarks of white matter astrocytes reveal region-specificity and adult astrogenesis
Judith Fischer-Sternjak (Planegg-Martinsried, Germany) |
| 2:08 pm | T10-036C | An ependymal cell census identifies heterogeneous and ongoing cell maturation in the adult spinal cord that is transiently reversed upon injury
Aida Rodrigo Albors (Edinburgh, UK) |
| 2:09 pm | T10-037C | Astrocyte diversity by region-specific proteomic labeling <i>in vivo</i>
Rainer Pielot (Magdeburg, Germany) |
| 2:10 pm | T10-038C | Integrating single-cell and spatially resolved transcriptomic strategies to survey astrocytes in response to stroke
Emerson Daniele (Toronto, Canada) |
| 2:11 pm | T10-039C | Enteric gliosis entailed by pathological alpha-synuclein in the duodenum of Parkinson's disease patients
Michele Sandre (Padova, Italy) |
| 2:12 pm | T10-040C | Spatial cellular dynamics of lesion development and progression in a mouse model of multiple sclerosis
Petra Kukanja (Solna, Sweden) |



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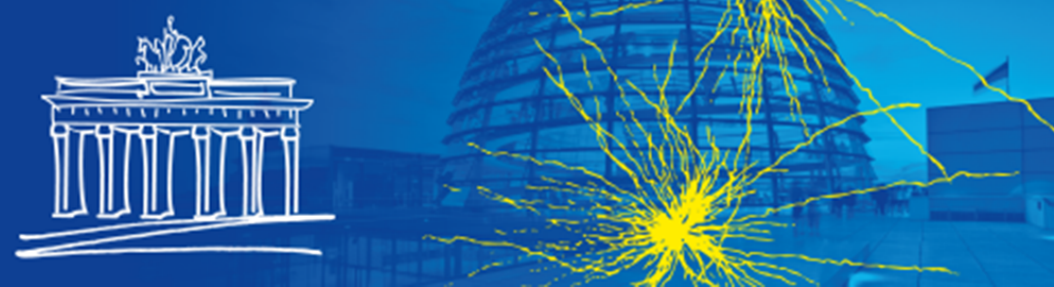


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| 2:13 pm | T10-041C | Spatial-transcriptomics of postnatal microglia
Susanne Wiemann (Bielefeld, Germany) |
| 2:14 pm | T10-042C | The molecular identity of <i>glia limitans superficialis</i> astrocytes
Philip Hasel (New York, USA) |
| 2:15 pm | T10-043C | Proteomic characterization of interferon-responsive reactive astrocytes in the mouse and human brain
Priya Prakash (New York, USA) |
| 2:16 pm | T10-044C | Structural analysis of astrocytes in different experimental conditions
Sara Barsanti (Braga, Portugal) |
| 2:17 pm | T10-045C | Astrocyte structural heterogeneity in the mouse hippocampus
João Luís Machado (Braga, Portugal) |
| 2:18 pm | T10-046C | Characterising the immune potential of enteric glia cells
Sofia Archontidi (London, UK) |
| 2:19 pm | T10-047C | ARG1 expression in basal forebrain microglia modulates hippocampal innervation and cognition during postnatal development
Jose Luis Venero (Seville, Spain) |
| 2:20 pm | T10-048C | Exploring the Impact of 5-HTR Signaling on Astrocyte Calcium Dynamics and Morphology
Franziska E. Müller (Hannover, Germany) |
| 2:21 pm | T10-049C | Effects of gender and age on glial cells and axon myelination within the primate spinal cord
Florence E. Perrin (Montpellier, France) |
| 2:22 pm | T10-050C | Blood brain barrier disruption after traumatic brain injury induces an atypical response in astrocytes and neurons
Carmen Muñoz-Ballester (Birmingham, USA) |
| 2:23 pm | T10-051C | Enteric Glia Display Regional and Phenotype-specific MicroRNA Signatures
Amy M. Holland (Maastricht, Netherlands) |



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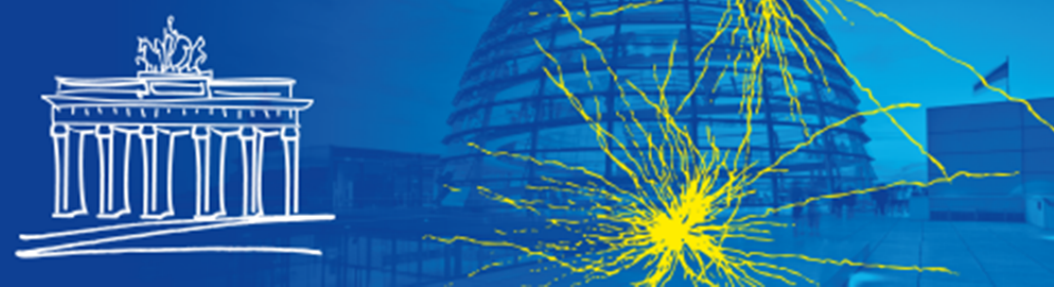


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| 2:24 pm | T10-052C | Age-related changes in parenchymal astrocytes within different areas of the human cerebral cortex
Patrizia Della Vecchia (Planegg-Martinsried, Germany) |
| 2:25 pm | T10-053C | From indicator to biosensor: GCaMPs for deciphering astrocyte Ca^{2+} complexity
Andre Zeug (Hannover, Germany) |
| 2:26 pm | T10-054C | Immaturity of microglia leads to alterations in CNS development
Tamara H. Ruß (Bielefeld, Germany) |
| 2:27 pm | T10-055C | Morphological Heterogeneity of Astrocytes in a Cerebral Organoid
Kaitlin Szederkenyi (Toronto, Canada) |
| 2:28 pm | T11-083C | Investigating the neuron and astrocyte-specific contribution to disease and network dysfunction in a human iPSC model of MPSIIIC
James A. Crowe (Lund, Sweden) |
| 2:29 pm | T11-084C | Impact of adaptative inflammatory cues on microglia-neuron interaction at the Node of Ranvier in Multiple Sclerosis and EAE
Anne Desmazieres (PARIS, France) |
| 2:30 pm | T11-085C | Dysfunctional astrocyte calcium signaling and neuron-astrocyte interplay in experimental multiple sclerosis
Andres Mateo Baraibar (Barakaldo, Spain) |
| 2:31 pm | T11-086C | Dysregulated gliomedin alters C-fiber excitability
Yael Eshed Eisenbach (Rehovot, Israel) |
| 2:32 pm | T11-087C | Characterizing the spatial distribution of spinal cord microglia after <i>Spared nerve injury</i> model of neuropathic pain
Andreea-Violeta Grosu (Bucharest, Romania) |
| 2:33 pm | T11-088C | Microglial Rac1 is essential for microglia-synapse crosstalk and cognitive performance
Tiago O. Almeida (Porto, Portugal) |
| 2:34 pm | T11-089C | Deciphering ATP signaling in Epilepsy with Biosensors
Paola Nobili (Montpellier, France) |



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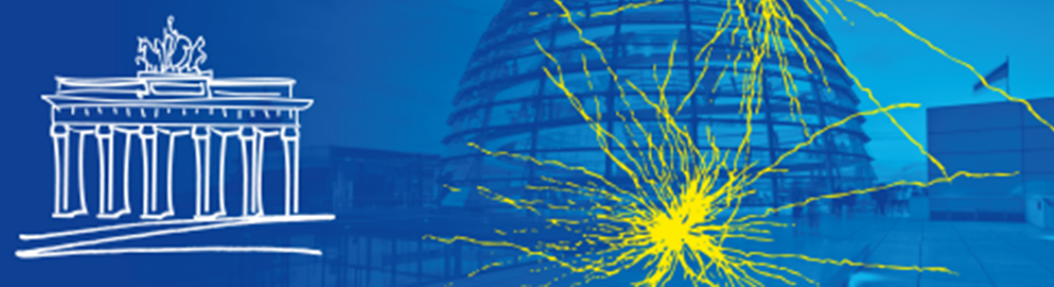


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| 2:35 pm | T11-090C | Novel Regulatory Mechanisms in Peripheral Nerve Development and Disease
Stephen Bradley (Edinburgh, UK) |
| 2:36 pm | T11-091C | Interferon- γ : opponent or teammate of oxaliplatin-induced neurotoxicity in rat organotypic spinal cord slices?
Valentina Ferrara (Florence, Italy) |
| 2:37 pm | T11-092C | Activated macrophages after SNI increase DRG neuronal excitability
Alexandru-Florian Deftu (Lausanne, Switzerland) |
| 2:38 pm | T11-093C | The involvement of astrocyte calcium-dependent signaling in fear memory
Daniela Sofia Abreu (Braga, Portugal) |
| 2:39 pm | T11-104C | Epileptiform activity synchronizes microglial calcium signaling through P2Y ₁₂ receptors
Elena Avignone (BORDEAUX CEDEX, France) |
| 2:40 pm | T11-095C | Dissecting the role of p75 pan-neurotrophin receptor in the hyperglycemia-driven neuroinflammation and neurodegeneration.
Konstantina Chanoumidou (HERAKLIO CRETE, Greece) |
| 2:41 pm | T11-096C | Glial neuronal interactions in a synaptic connectomic dataset of zebrafish
Christina Schick (Planegg, Martinsried, Germany) |
| 2:42 pm | T11-097C | <i>In vitro</i> modelling of intraneuronal tau aggregation in a hiPSC-derived co-culture system of neurons, astrocytes and microglia
Julian Röwe (Ludwigshafen, Germany) |
| 2:43 pm | T11-098C | The effect of acute and chronic insufficient sleep on mouse microglia
Sarah Steffens (Helsinki, Finland) |
| 2:44 pm | T11-099C | Astrocytic control of thalamic sensory processing
Eunji Cheong (Seoul, South Korea) |
| 2:45 pm | T11-100C | Discovering RNA sequence motifs necessary and sufficient for mRNA localization in astrocytes using a novel SN-MPRA approach
Joseph Dougherty (SAINT LOUIS, USA) |



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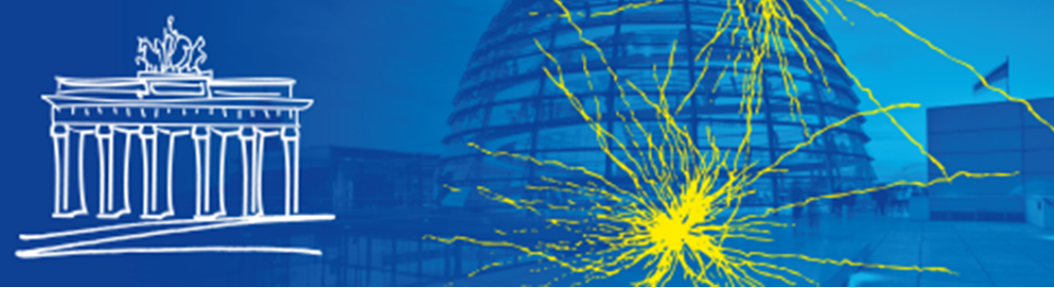


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| 2:46 pm | T11-101C | Mechanisms of GABA release by Schwann cells in peripheral nerve fibres
Valerio Magnaghi (Milan, Italy) |
| 2:47 pm | T11-102C | Neuron-derived Thioredoxin-80: a novel regulator of type-I interferon response in microglia
Julen Goicolea (Solna, Sweden) |
| 2:48 pm | T11-103C | Profiling of glial cell-surface molecules that mediate engulfment of neurons
Leire Abalde Atristain (Portland, USA) |
| 2:49 pm | T11-094C | Astrocytic Foxo1 regulates hippocampal spinogenesis and synaptic plasticity and enhances fear memory
João Filipe Viana (Braga, Portugal) |
| 2:50 pm | T11-105C | Modulation of the synaptic transcriptome by glial extracellular vesicles in 5xfad mice
Aida de la Cruz (Leioa, Spain) |
| 2:51 pm | T11-106C | Dopaminergic drugs induce changes in transporters' mRNA expression in adult and neonatal rat astrocytes
Vesna Sočan (Ljubljana, Slovenia) |
| 2:52 pm | T11-107C | Different effects of ageing on astrocytes and neurons in the human brain
Aleksandr Popov (Jiaxing, China) |
| 2:53 pm | T11-108C | Potassium signaling and its role in regulating axon-oligodendrocyte metabolic interactions
Zoe J. Looser (Zurich, Switzerland) |
| 2:54 pm | T11-109C | Disrupted iron homeostasis in mice engineered with a mutation associated with stuttering
Marissa Millwater (Bethesda, USA) |
| 2:55 pm | T11-110C | Breaking the code of myelination: The Drosopus chimera, an evolutionary perspective from invertebrates to vertebrates.
Noémie Frère (Paris, France) |
| 2:56 pm | T11-111C | Enrichment of neurogenetic epilepsy genes within the astroglial lineage suggests potential new role for glial ion channels in cortical progenitors
Laura R. Morcom (Cambridge, UK) |



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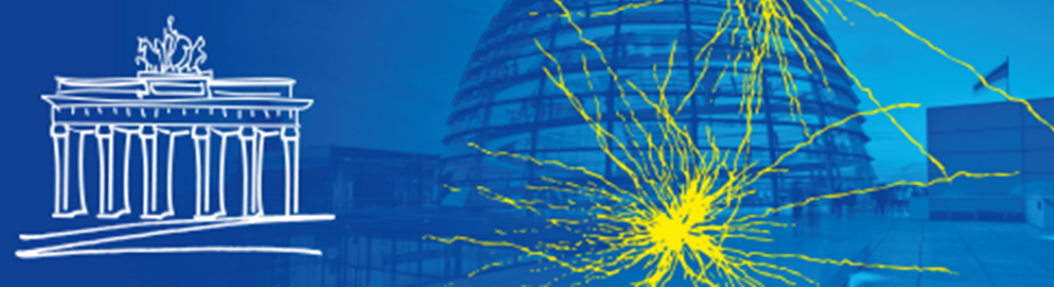


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| 2:57 pm | T11-112C | Crosstalk between Glia Cells and Neurons under the Influence of Paclitaxel: Novel insights into the 'Chemobrain'
Sabine U. Vay (Koeln, Germany) |
| 2:58 pm | T11-114C | Microglial signatures in an <i>in vivo</i> familial Parkinson's disease mouse model
Elpinickie Ninou (Athens, Greece) |
| 2:59 pm | T11-115C | Norepinephrine regulates Ca ²⁺ signals and the fate of oligodendrocyte progenitor cells in the cortex
Frederic Fiore (Heidelberg, Germany) |
| 3:00 pm | T11-116C | Gamma-frequency oscillations influence the morphology and activation of microglia
Meg Elley (Exeter, UK) |
| 3:01 pm | T11-117C | Oligodendroglial NMDA receptors: roles in activity-dependent myelination and remyelination
Alice Staffa (Sant Joan d'Alacant, Spain) |
| 3:02 pm | T11-118C | Exploring feedback mechanisms employed by oligodendrocyte precursor cells to regulate neuronal circuit development in the zebrafish visual system.
Denis Yuan (Edinburgh, UK) |
| 3:03 pm | T11-119C | Radial glial action potentials initiate fetal motor activity
Agathe Lafont (Paris, France) |
| 3:04 pm | T11-120C | Distinct handling of intracellular L-lactate in locus coeruleus neurons and cortical astrocytes
Zala Smole (Ljubljana, Slovenia) |
| 3:05 pm | T11-121C | Mechanisms of microglial mediated elimination of newborn embryonic retinal ganglion cells
Navita N. Lopez (Salt Lake City, USA) |
| 3:06 pm | T11-123C | The myelinic channel system: A highway to the glial-axonal junction and infrastructure for myelin remodelling
Katie J. Chapple (Glasgow, UK) |
| 3:07 pm | T12-021C | Renewal of microglia alters their epigenetic status and increases their biological age in physiological conditions and after stroke
Sara Figuerola-Santamónica (Barcelona, Spain) |



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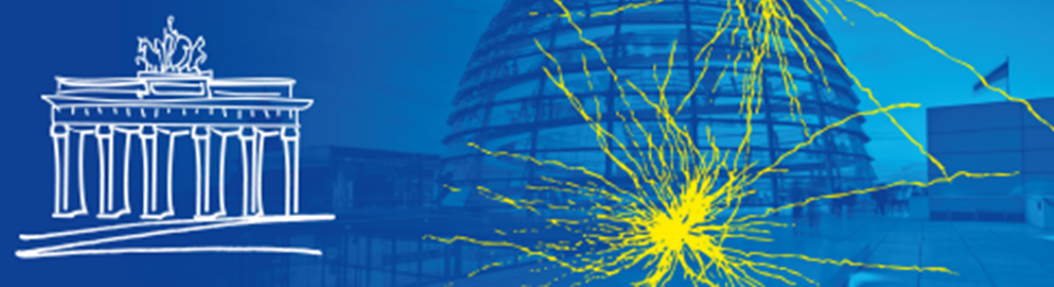


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| 3:08 pm | T12-022C | Brain angiogenesis induced by non-viral gene therapy leads brain damage recovery following experimental ischemic stroke
Leire Iglesias Iglesias (Leioa, Spain) |
| 3:09 pm | T12-023C | Fight for survival or get destroyed? – Autophagy in glial cells after hypoxic-ischemic injury
Paulina G?bala (Warsaw, Poland) |
| 3:10 pm | T12-024C | A robust gene set module highlights major transcriptomic changes induced by stroke in brain endothelial cells: effect of aging on the neuroinflammatory response
Maria Arbaizar Rovirosa (Barcelona, Spain) |
| 3:11 pm | T12-025C | Dectin-1 ⁺ microglia participate in clearance of apoptotic neuronal cells
Jordi Pedragosa (Barcelona, Spain) |
| 3:12 pm | T12-026C | A 3D system for modelling astrocytic response in brain pathology – the paradigm of ischemic stroke
Georgia Athanasopoulou (Porto, Portugal) |
| 3:13 pm | T12-027C | Interglial communication of astrocytes and microglia in an in vitro model of ischemia
Daniel Navin Olschewski (Cologne, Germany) |
| 3:14 pm | T12-028C | Ischemic stroke induces a chronically altered microglia phenotype with pro-regenerative capacities
Steffanie Heindl (München, Germany) |
| 3:15 pm | T12-029C | MicroRNA Regulation of Ischemic White Matter Injury
Selva Baltan (Portland, USA) |
| 3:16 pm | T12-030C | A Human Brain Organoid Model for Cerebral Ischemia
Siri Egenæs (Oslo, Norway) |
| 3:17 pm | T12-032C | Hypoxia activates a unique reactive transformation signature in hiPSC-derived astrocytes
Hannah D. Franklin (London, UK) |
| 3:18 pm | T13-001C | Voluntary Wheel Running in Old C57BL/6 Mice Reduces Age-Related Inflammation in the Colon but Not in the Brain
Christiane Frahm (Jena, Germany) |



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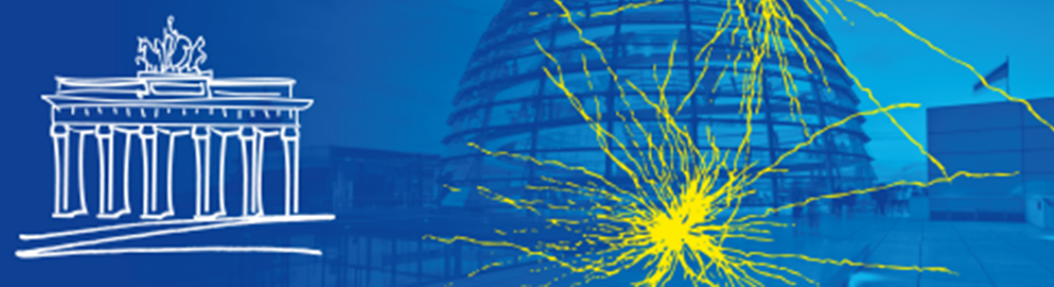


- 3:19 pm T13-002C Investigating the role of dorsal CA1 astrocytes activation during contextual memory formation and recall.
Toko Kikuchi (Geneva, Switzerland)
- 3:20 pm T13-003C Astrocytes provide the temporal dynamic required for theta driven memory formation in the hippocampus
Silas Dalum Larsen (Copenhagen, Denmark)
- 3:21 pm T13-004C Daphnetin improves cognitive function in an APP/PS1 double-transgenic mouse model of Alzheimer's disease by inhibiting A β deposition and astrocytic activation
Peipei Gao (Xi'an, China)
- 3:22 pm T13-005C Learning-induced changes in secretome of hippocampal astrocytes
Hyeyeon Kim (Daegu, South Korea)
- 3:23 pm T13-006C The role of astrocytic Gs-GPCR signaling in cortical engram formation and remote memory retrieval
Aline Mak (AMSTERDAM, Netherlands)
- 3:24 pm T13-007C Oligodendrocyte lineage dynamics dictate cognitive performance outcomes of pre-test working memory training.
Stuart G. Nayar (London, UK)
- 3:25 pm T13-008C Astrocyte dynamics determine the long-term fate of memories
Hiroki Yamao (Miyagi prefecture, Sendai, Japan)
- 3:26 pm T13-009C Analyzing learning-evoked myelination
Tanja M. Birgisdóttir (Reykjavík, Iceland)
- 3:27 pm T13-010C Astrocytic synchronization promotes memory consolidation
Márton Péter (Budapest, Hungary)
- 3:28 pm T14-052C Evaluation of safety and efficacy of novel drugs in de- and remyelination conditions using immunocompetent brain organoids
Simona Lange (Basel, Switzerland)
- 3:29 pm T14-053C Tiling of myelin patterns: the dynamics of developmental myelination in the optic nerve.
Alexandra Beaudry-Richard (San Francisco, USA)



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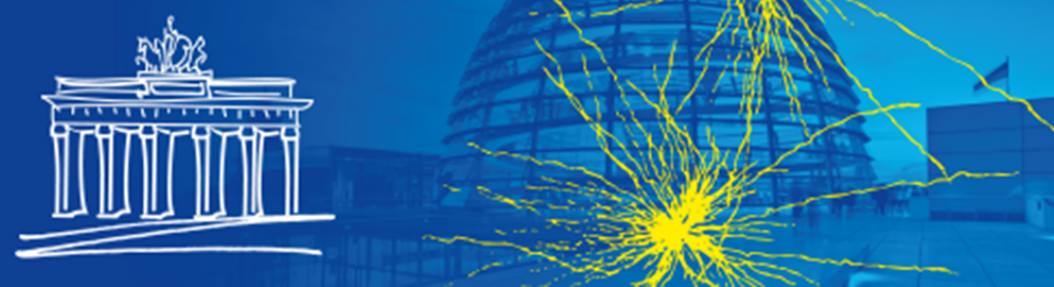


- 3:30 pm T14-054C Myelin deposition follows striking distinct patterns in human and mouse cerebella
Annalisa Buffo (Orbassano, TORINO, Italy)
- 3:31 pm T14-055C Ablation of oligodendrogenesis in adult mice alters brain microstructure and activity independently of behavioural deficits
Malte Kaller (Oxford, UK)
- 3:32 pm T14-056C Comparative morphology of mitochondria in optic nerve and cell body of retinal ganglion cells in the *Plp*-deficient mouse
Leonie C. Schadt (Göttingen, Germany)
- 3:33 pm T14-057C Role of monocarboxylate transporter (MCT) 2 in the central nervous system (re)myelination
Leire Izaguirre Urizar (Leioa, Spain)
- 3:34 pm T14-058C The role of the actin cytoskeleton in axon ensheathment and myelination
Yi Jiang (London, UK)
- 3:35 pm T14-059C AMPA receptor signalling to oligodendrocyte precursors stimulates motor skill learning
Matthew Swire (London, UK)
- 3:36 pm T14-060C Control of myelinated axon conduction speed by node of Ranvier electrical and structural adaptations
Jonathan Lezmy (London, UK)
- 3:37 pm T14-061C Type-dependent dysregulation of myelination in focal cortical dysplasia in the frontal lobe of the human neocortex
Catharina Donkels (Freiburg im Breisgau, Germany)
- 3:38 pm T14-062C Role of corepressors Ncor1 and Ncor2 in Schwann cell biology.
Nikiben Patel (San Juan, Spain)
- 3:39 pm T14-063C Ceruloplasmin deficient mice show signs of reduced microglial activation state in response to cuprizone treatment
Birgitte Villadsen (Odense C, Denmark)
- 3:40 pm T14-064C Hippocampal PV⁺BC axon myelination shortens inhibitory delays and speeds up sharp-wave ripple frequency
David Vandael (Amsterdam, Netherlands)



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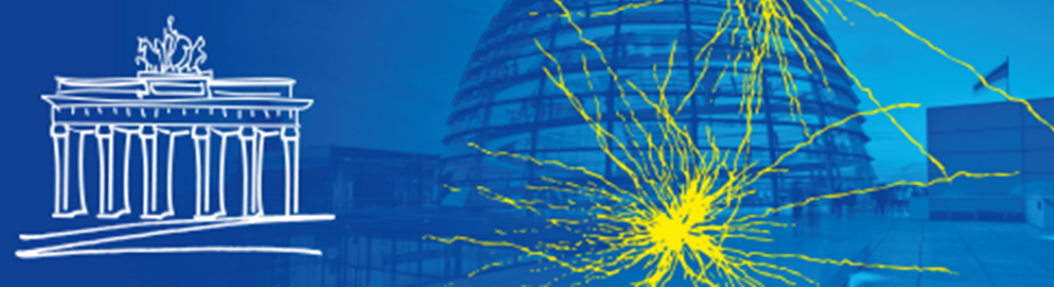


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| 3:41 pm | T14-065C | Development of a Boronic Acid-based fluorescent platform for the live imaging of myelin-carrying cells as a tool to study and characterize Multiple Sclerosis-like foamy microglia.
Maria Vaz Pinto (Lisbon, Portugal) |
| 3:42 pm | T14-066C | Amyloid β oligomers impair node of Ranvier structure in Alzheimer's disease
Tania Quintela Lopez (London, UK) |
| 3:43 pm | T14-067C | Reactive microglia phagocytose synapses in response to focal demyelination
Michael Perry (Cambridge, UK) |
| 3:44 pm | T14-068C | Tissue-type plasminogen activator contributes to developmental myelination.
Barbara Delaunay-Piednoir (CAEN, France) |
| 3:45 pm | T14-069C | Modification of grey and white matter composition during postnatal mouse development measured by Fourier transformed infrared microspectroscopy
Gemma Manich (Cerdanyola del Vallès, Spain) |
| 3:46 pm | T14-070C | Siponimod ameliorates metabolic oligodendrocyte injury via the sphingosine-1 phosphate receptor 5
Leo Heinig (Rostock, Germany) |
| 3:47 pm | T14-071C | ROLE OF NEDDYLATION IN OLIGODENDROCYTE DIFFERENTIATION AND MYELINATION
Izaskun Buendia (A Coruña, Spain) |
| 3:48 pm | T14-072C | Spatiotemporal patterns of developmental myelination across early and higher-level visual cortex in the human.
Clara M. Bacmeister (Stanford, USA) |
| 3:49 pm | T14-073C | Myelination governs sleep oscillations and memory function
Mohit Dubey (Amsterdam, Netherlands) |
| 3:50 pm | T14-074C | A role of Schmidt-Lanterman Incisure number for sustaining Schwann cell function during chronic and acute nerve injury
Doris Krauter (Göttingen, Germany) |
| 3:51 pm | T14-075C | Oligodendrocytes may utilize post-synaptic proteins to coordinate myelin formation on distinct axon classes
Natalie Carey (Aurora, USA) |



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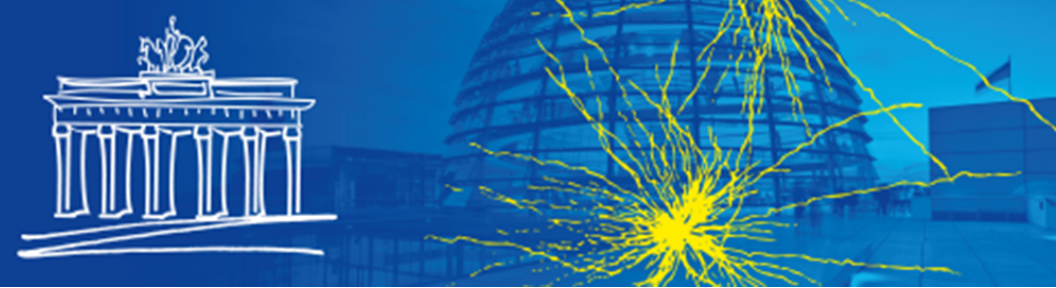


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| 3:52 pm | T14-076C | Studying the role of GPR37 in CNS myelination
Renana Hajbi Karasik (Rehovot, Israel) |
| 3:53 pm | T14-077C | Investigating the role of oligodendrocyte TRPA1 channel in demyelinating disease using the cuprizone model
Grace Flower (London, UK) |
| 3:54 pm | T14-078C | The Monoselective Sphingosine-1-Phosphate Receptor-1 Modulator Ponesimod Enhances Remyelination in the Cuprizone Model of Demyelination
Emily Willems (Hasselt, Belgium) |
| 3:55 pm | T14-079C | Oligodendroglial UNC5B regulates the organization of paranodal junctions and myelin modification during aging
Nonthué A. Uccelli (Montreal, Canada) |
| 3:56 pm | T14-080C | Myelin internalization by oligodendroglia promotes lineage progression and maturation
Carla Peiró Moreno (Leioa, Spain) |
| 3:57 pm | T14-081C | Oligodendroglial cells and myelin in SCN2A mutant mice
Julia Volkmer (Tübingen, Germany) |
| 3:58 pm | T14-082C | Exploring Fbxw7 regulation of Myrf in CNS myelination
Hannah Y. Collins (Portland, USA) |
| 3:59 pm | T15-013C | Widespread and continuous astrocytes activation supports long-term neurogenesis in the lesioned striatum
Marco Fogli (Orbassano, Italy) |
| 4:00 pm | T15-014C | Identification of transiently formed spinal cord immune-endogenous neural stem cell niches upon injury
Martyna Lukoseviciute (Solna, Stockholm, Sweden) |
| 4:01 pm | T15-015C | Dynamics and regulation of intraventricular oligodendrocyte progenitors in the adult brain
Ana Delgado (Basel, Switzerland) |
| 4:02 pm | T15-016C | Aquaporin-4 aggregation into Orthogonal Arrays of Particles affects Neural Stem Cell behaviour in the early phases of neural differentiation
Guido Moggi (Bari, Italy) |



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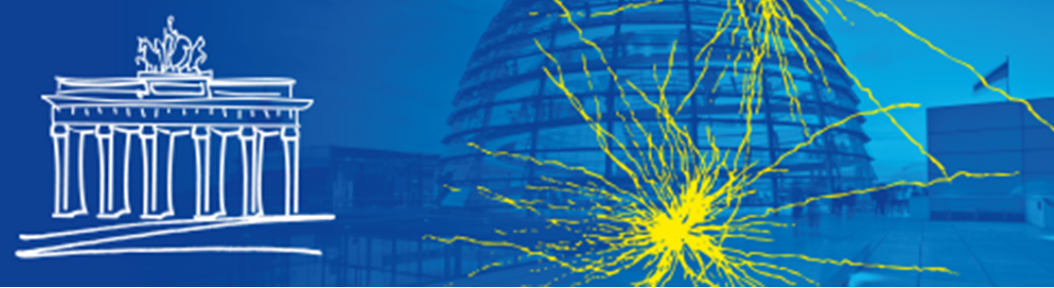


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| 4:03 pm | T15-017C | Novel regulators of astrocyte-adult neural progenitor cells crosstalk
Mariagrazia Grilli (Novara, Italy) |
| 4:04 pm | T15-018C | A distinct population of neuroblasts in the aged SVZ acquires an inflammatory active expression profile and doesn't reach the OB
Jonas Fritze (Lund, Sweden) |
| 4:05 pm | T16-111C | Transcriptional and behavioural response of microglia-specific Smad4 knock-out mice to LPS
Phani Sankar Potru (Bielefeld, Germany) |
| 4:06 pm | T16-112C | P2X7R, β_3 -integrin and Cx-43 mediate interaction between astrocytes and adjacent autoreactive immune cells
Katarina D. Milicevic (Belgrade, Serbia) |
| 4:07 pm | T16-113C | CD300f immune receptor-dependent phagocytosis and lipid degradation in demyelinating lesions of the nervous system
Andrés Cawen (Montevideo, Uruguay) |
| 4:08 pm | T16-114C | Human iPSC-derived microglia - a model for neuronopathic Gaucher Disease
Juliane F. Tampé (Lund, Sweden) |
| 4:09 pm | T16-115C | In vitro characterization of human neuroinflammatory astrocytes
Francesca Rapino (Cambridge, USA) |
| 4:10 pm | T16-116C | Evobrutinib, a Bruton's tyrosine kinase inhibitor, modulates microglia activity in vivo
Anastasia Geladaris (Göttingen, Germany) |
| 4:11 pm | T16-117C | In vitro modeling of multiple sclerosis utilizing human iPSC-derived microglia
Johanna Lotila (Tampere, Finland) |
| 4:12 pm | T16-118C | The potential therapeutic role of itaconate and mesaconate on the detrimental effects of neuroinflammatory processes in the brain
Melanie Ohm (Braunschweig, Germany) |
| 4:13 pm | T16-119C | Reboxetine treatment reduces glial reactivity in the P301S mouse model
Irene Lopez Gutierrez (MADRID, Spain) |



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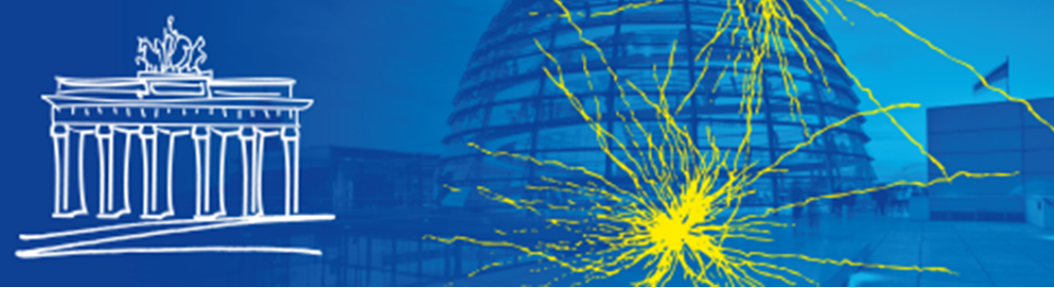


- 4:14 pm T16-120C Mechanistic single-cell investigation of neuroinflammation induced by influenza A virus infection
Lea Gabele (Braunschweig, Germany)
- 4:15 pm T16-121C The effect of selective soluble TNF-TNFR1 signaling inhibition on microglial phenotypes in chronic neuroinflammation post-stroke
Pernille Vinther Nielsen (Odense C, Denmark)
- 4:16 pm T16-122C Defining the consequence of LRRK2 dysregulation in human ESC-derived astrocytes
Áine Bríd Heffernan (Edinburgh, UK)
- 4:17 pm T16-123C IL-10 protects female mice from Methamphetamine-induced neuroinflammation
Ana Isabel Silva (Porto, Portugal)
- 4:18 pm T16-124C ABCA7 DYSFUNCTION IN MICROGLIAL BIOLOGY AND ALZHEIMER'S DISEASE
Jessie Premereur (Antwerp, Belgium)
- 4:19 pm T16-125C *Irf5* modulates myelin-derived lipid processing and remyelination
Maria Domercq (Leioa, Spain)
- 4:20 pm T16-126C Astrocytes and microglia: the mechanosensing side of the CNS power couple
Miguel R.G. Morais (Porto, Portugal)
- 4:21 pm T16-127C The role of microglia in 5xFAD/FAAH^{-/-} mice: an *in vivo* multiphoton microscopy and molecular study
María Andrea Arnanz (Pozuelo de Alarcón, Spain)
- 4:22 pm T16-128C GRN and C9orf72: converging disease mechanisms in human microglia
Paula Polanco Miquel (ANTWERPEN, Belgium)
- 4:23 pm T16-129C The role of MHC-II in CNS remyelination
Jessica A. White (Belfast, UK)
- 4:24 pm T16-130C An investigation of the behavioral changes induced by the conditional inactivation of 5-HT_{2B} receptors on microglia cells
Marco Anzalone (Odense C, Denmark)



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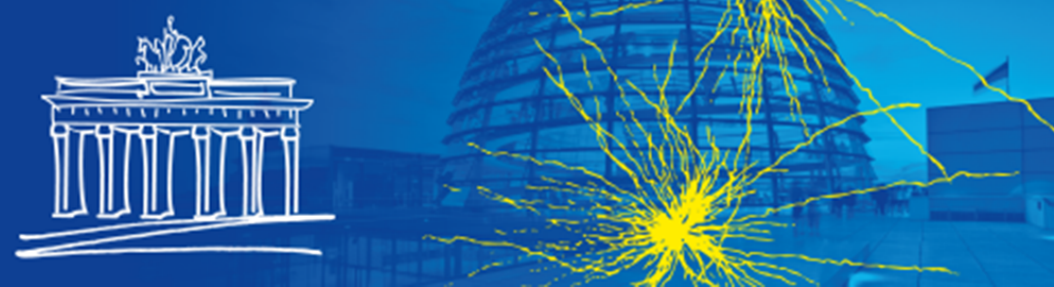


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| 4:25 pm | T16-131C | Deciphering the role of an astrocytic lncRNA in neuroinflammation
Ulrike Fuchs (Göttingen, Germany) |
| 4:26 pm | T16-132C | Human iPSC glial co-culture chip model for studying neuroinflammation in vitro
Ilisa Tujula (Tampere, Finland) |
| 4:27 pm | T16-133C | Tackling the role of microglia in Multiple Sclerosis-associated cognitive impairment
Catarina Barros (Lisboa, Portugal) |
| 4:28 pm | T16-134C | Human pluripotent stem cell-based models establish the cellular neurotropism and neurovirulence of monkeypox virus
Lisa Bauer (Rotterdam, Netherlands) |
| 4:29 pm | T16-135C | <i>In vitro</i> assay development for studying the interaction between microglia and myeloid cells in neuroinflammatory conditions
Estrid Thougard Pedersen (Odense, Denmark) |
| 4:30 pm | T16-136C | Sex- and cell-type specific neuroimmune responses underlie demyelination
Chloe Lopez-Lee (New York, USA) |
| 4:31 pm | T16-137C | FGFR3 is Expressed in Mice and Humans Meissner Corpuscles: A Neural Autoantigen in Autoimmune Small Fiber Neuropathy Patients?
Efrat Shavit-Stein (Ramat Gan, Israel) |
| 4:32 pm | T16-138C | Succinate receptor 1 (SUCNR1) signalling sustains microglial activation in CNS inflammation
Grzegorz Krzak (Cambridge, UK) |
| 4:33 pm | T16-139C | Rod microglia is associated to tau pathology in the Alzheimer's disease hippocampus
Juan Jose Fernandez-Valenzuela (Malaga, Spain) |
| 4:34 pm | T16-140C | Contribution of microglial β_2 adrenergic signaling degeneration to Alzheimer's disease pathology
Linh H. Le (Rochester, USA) |
| 4:35 pm | T16-141C | Investigating the role of Clec7a in microglia function and assessing whether it may represent an early molecular target in Alzheimer Disease (AD)
Matthieu Prieur (Montpellier, France) |



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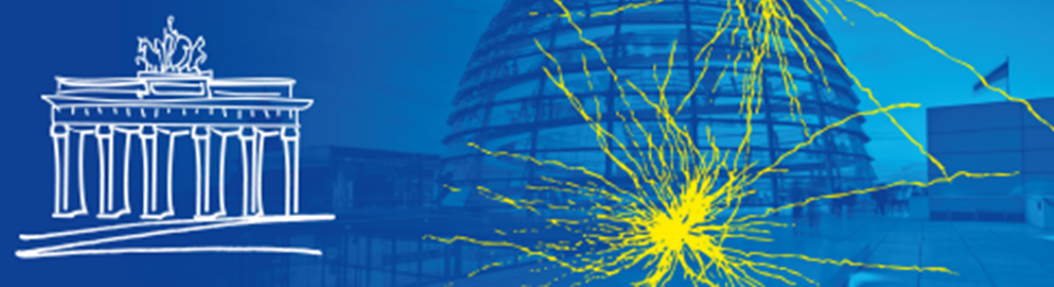


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| 4:36 pm | T16-142C | Deletion of GABA _B receptors from oligodendrocyte precursor cells impairs blood-brain barrier function
Lipao Fang (Homburg, Germany) |
| 4:37 pm | T16-143C | Effects of a gut-selective integrin-targeted therapy in mice exposed to early life immunostimulation (EIA): rescue of the social novelty deficit and of the expression of protective genes in hippocampus and cortex
Roberta De Simone (Rome, Italy) |
| 4:38 pm | T16-144C | The bidirectional relation between Corticosterone and Foxp3 ⁺ T Regulatory cell population in Major Depression-like Disorder
Inssaf Berkiks (capetown, South Africa) |
| 4:39 pm | T16-145C | An <i>in vivo</i> model to study autoimmune encephalitis
Joanne Falck (Berlin, Germany) |
| 4:40 pm | T16-146C | Microglia-mediated chronic neuroinflammation impairs neurogenesis
Alma N. Mohebiany (Antwerp, Belgium) |
| 4:41 pm | T16-147C | SORLA impacts reactivity and response to pro-inflammatory stimulation of iPSC-derived microglia cells
Peter L. Ovesen (Berlin, Germany) |
| 4:42 pm | T16-148C | Effects of Gestational and Lactational Exposure to Perfluorohexanoic Acid (PFHxA) on Cerebellum Development
Elizabeth Plunk (Rochester, USA) |
| 4:43 pm | T16-149C | Modulation of glial inflammatory reactions by GPR55
Annika Hensel (Halle (Saale), Germany) |
| 4:44 pm | T16-150C | Profiling of MS microglia nodules reveals enriched propensity for lesion formation
Aletta van den Bosch (Amsterdam, Netherlands) |
| 4:45 pm | T16-151C | Endocytosis boost by the cholesterol-dependent cytolysin pneumolysin enhances inflammatory response
Asparouh I. Iliev (Bern, Switzerland) |



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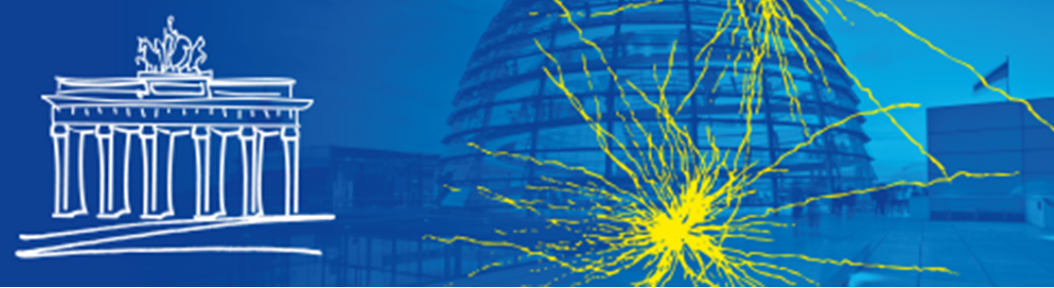


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| 4:46 pm | T16-152C | Enteric Glial Cells as a Possible Source of Myelin Antigen in Inflammatory Bowel Disorders and Multiple Sclerosis
Ryan Brown (Charlottesville, USA) |
| 4:47 pm | T16-153C | Understanding the effect of neutrophil infiltration on microglia population after spinal cord injury
Andreia G. Pinho (Braga, Portugal) |
| 4:48 pm | T16-154C | Cannabidiol induces autophagy in human microglia: relevance for its immuno-modulatory effect
Adriano M. Chaves (Fortaleza, Brazil) |
| 4:49 pm | T16-155C | Therapeutic modulation of sTNF-TNFR1 signaling selectively in microglia promotes remyelination in the cortical grey matter.
Athena Boutou (Athens, Greece) |
| 4:50 pm | T16-156C | Distinct astrocyte activation profiles associated with remyelination and demyelination in the cuprizone model of multiple sclerosis
Ilias Roufagalas (Athens, Greece) |
| 4:51 pm | T16-157C | Astrocytes exhibit morphological differences between female and male at 30 days post juvenile mTBI
Lea Hippauf (Bordeaux Cedex, France) |
| 4:52 pm | T16-158C | Elucidating microglia programs under PARK7/DJ-1-deficiency, a genetic cause of Parkinson's disease
Frida Lind-Holm Mogensen (Luxembourg, Luxembourg) |
| 4:53 pm | T16-159C | TSPO is required for CGAS expression and function in human iPSC microglia-like cells
Maria Weinert (London, UK) |
| 4:54 pm | T16-160C | Psychostimulants and neuroinflammation: finding critical players in the crosstalk between glial cells and neurons
Joana Bravo (Porto, Portugal) |
| 4:55 pm | T16-161C | Effects of the cannabinoids 2-Arachidonylglycerol and WIN 55,212-2 on primary isolated astrocytic cultures and astrocytic-microglial co-cultures
Franziska Vieregge (Halle (Saale), Germany) |
| 4:56 pm | T16-162C | The Roles of NLRX1 in Regulation of TLR4-mediated Inflammation and Cell Death in Microglia.
Wan-Wan Lin (Taipei, Taiwan) |



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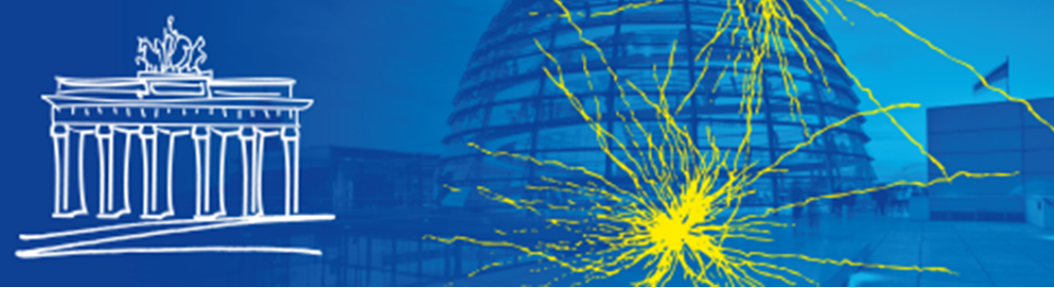


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| 4:57 pm | T16-163C | Inflammatory stimuli interfere with myelin phagocytosis in macrophages via the Jak/STAT pathway
Lorenzo Romero-Ramírez (Toledo, Spain) |
| 4:58 pm | T16-164C | Microglial aggregation and demyelinating cortical pathology in mouse
Trevor Owens (Odense C, Denmark) |
| 4:59 pm | T16-165C | Induction and modulation of inflammatory responses in bi- and tri-cellular murine iPSC-derived neurospheroids
Julia Di Stefano (Antwerp, Belgium) |
| 5:00 pm | T17-010C | The presence of glia cells is required for the up-regulation of Na ⁺ currents as well as of Na ⁺ /K ⁺ -ATPases by thyroid hormone in cultures from postnatal rats
Irmgard D. Dietzel-Meyer (Bochum, Germany) |
| 5:01 pm | T17-011C | Tanycyte signal for Tanycyte/Neuron communication in Energy Balance regulation.
Rafik Dali (Lausanne, Switzerland) |
| 5:02 pm | T17-012C | Investigation of noradrenaline mediated glial wave induced motor arrest upon aversive stimulation
Mahalakshmi Dhanasekar (Paris, France) |
| 5:03 pm | T17-013C | Transmission of mechanical forces dictates astrocyte local stiffness and calcium dynamics, modulated by cell morphology
Miguel Fernández de la Torre (Leganés, Spain) |
| 5:04 pm | T17-014C | Function of μ -crystallin expressing striatal astrocytes <i>in vivo</i>
Matthias Ollivier (Los Angeles, USA) |
| 5:05 pm | T17-015C | Focused Ultrasound for Glial Modulation
Sophie V Morse (London, UK) |
| 5:06 pm | T17-016C | Microglial contribution to neuronal network remodeling after paralysis onset
Fanny S. Martineau (Lausanne, Switzerland) |
| 5:07 pm | T17-017C | Oligodendrocyte TRPA1 regulates potassium siphoning and neuronal excitability
Nicola Hamilton-Whitaker (London, UK) |



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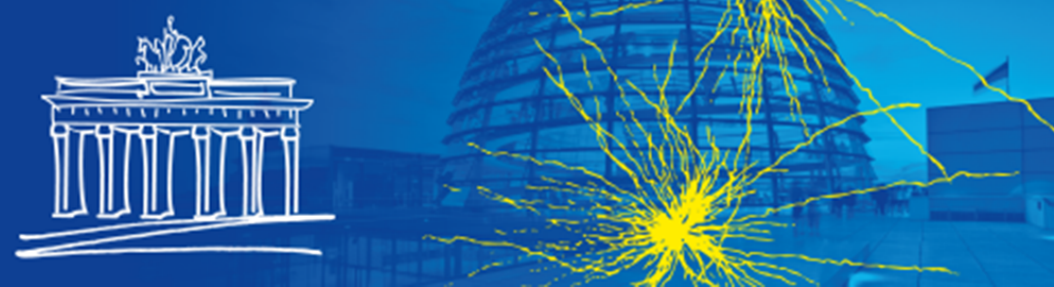


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| 5:08 pm | T17-018C | Calcium signaling in Astrocytes
Ahmad Jibai (Rotterdam, Netherlands) |
| 5:09 pm | T17-019C | The astrocyte $\alpha 1$ -adrenoreceptor is an essential component of the neuromodulatory system in mouse visual cortex.
Jérôme Wahis (Leuven, Belgium) |
| 5:10 pm | T18-006C | Deciphering the dynamic of cerebrovascular reactivity to hypercapnia and neurovascular coupling
Marine Tournissac (Paris, France) |
| 5:11 pm | T18-007C | Spatio-temporal dynamics of microglia phenotype in chronic hypertensive states
Lorena Morton (Magdeburg, Germany) |
| 5:12 pm | T18-008C | mRNA distribution and local translation sustain the postnatal molecular maturation of perivascular astrocytic processes
Anne-Cécile Boulay (Paris, France) |
| 5:13 pm | T18-009C | Sulfite oxidase in astrocyte mitochondria generates nitric oxide during brain hypoxia
Alexander Mascarenhas (London, UK) |
| 5:14 pm | T18-010C | Cross-talk between endothelial cells and macrophages through soluble factors
Valerie Petegnief (Barcelona, Spain) |
| 5:15 pm | T18-011C | Deletion of aquaporin-4 improves capillary blood flow distribution and intracranial pressure load after brain edema in awake mice
Luca Bordoni (Oslo, Norway) |
| 5:16 pm | T20-033C | Acquisition of astroglial plasticity in the human cerebral cortex is pathology-dependent and mediated by injury-specific factors in the cerebrospinal fluid
Swetlana Sirko (Planegg-Martinsried, Germany) |
| 5:17 pm | T20-034C | The role of Nicotinamide in central nervous system re/myelination
Ioannis-Stefanos Kaplanis (Heraklion, Greece) |
| 5:18 pm | T20-035C | Adipo-glial signaling mediates metabolic adaptation in peripheral nerve regeneration
Venkat Krishnan Sundaram (Leipzig, Germany) |



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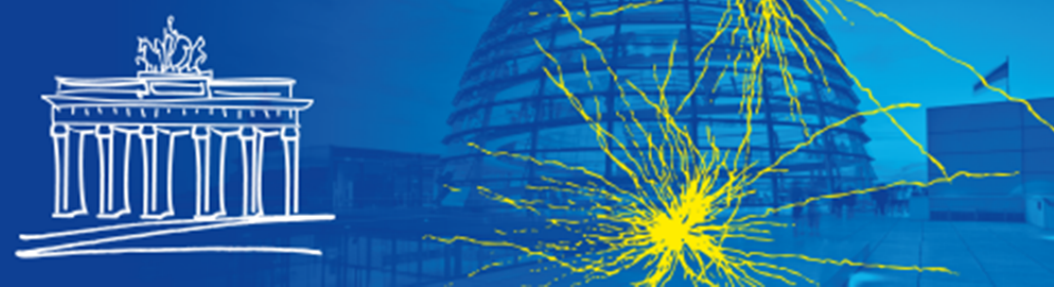


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| 5:19 pm | T20-036C | Comparative Expression Analysis Reveals Cell Type-Specific Neuronal Injury-Responses
Frank Bosse (Duesseldorf, Germany) |
| 5:20 pm | T20-037C | Study of the role of Smoothed non-canonical signalling in oligodendroglia differentiation
Antonella Ragnini-Wilson (Rome, Italy) |
| 5:21 pm | T20-038C | Contribution of Platelets to Remyelination in Multiple Sclerosis
Francisco J. Rivera (Helsinki, Finland) |
| 5:22 pm | T20-039C | Epigenetic priming in perivascular cells promotes fibrotic response after CNS injury
Anais Julien (Solna, Sweden) |
| 5:23 pm | T20-040C | Tamoxifen Attenuates Reactive Astrogliosis in the Xenopus Tadpole Optic Tectum Following Focal Impact Injury
Amy K. Sater (Houston, USA) |
| 5:24 pm | T20-041C | Adaptive post-traumatic changes in the neurogenic niches of adult mouse brain are strongly dependent on the location of CNS injury and vary with increasing age
Chiara Marchesan (Planegg-Martinsried, Germany) |
| 5:25 pm | T20-042C | Combination-Based Small Molecule Screening for Induced Oligodendrocyte Differentiation
Luke Lairson (La Jolla, USA) |
| 5:26 pm | T20-043C | Effects of the PPAR- γ agonist pioglitazone on the microglia in different brain regions after traumatic brain injury in the rat
Petra Dolenec (Rijeka, Croatia) |
| 5:27 pm | T20-044C | Local cholesterol metabolism orchestrates remyelination
Stefan A. Berghoff (Munich, Germany) |
| 5:28 pm | T20-045C | Schwann cells - endothelial cells interactions during the nerve regeneration inside a vein graft enriched with fresh skeletal muscle
Federica Zen (Orbassano, Italy) |
| 5:29 pm | T20-046C | Changes in CNS extracellular matrix stiffness and its effects in human oligodendrocyte differentiation
Carmen Melendez-Vasquez (New York, USA) |



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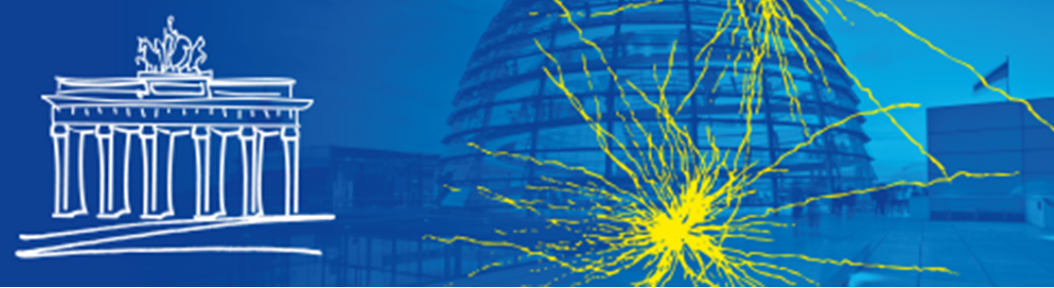


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| 5:30 pm | T20-047C | Pharmacogenomic screening identifies and repurposes small molecules for their pro-oligodendrogenic and pro-myelinating activities
Jean-Baptiste Huré (Paris, France) |
| 5:31 pm | T20-048C | Leriglitazone protects oligodendrocytes and promotes myelination in demyelinating diseases.
Anna Vilalta (Mataró, Spain) |
| 5:32 pm | T20-049C | A novel protein involved in peripheral nerve injury: Regulator of G Protein Signalling 16 (RGS16)
Marina García Bejarano (Orbassano (Torino), Italy) |
| 5:33 pm | T21-009C | Cell-intrinsic pathological characteristics in p.A53T- α Syn iPSC-derived astrocytes from Parkinson's disease patients
Christina Paschou (Athens, Greece) |
| 5:34 pm | T21-011C | Glia-to-glutamatergic neuron conversion in the mouse postnatal cerebral cortex
Laia Torres Masjoan (London, UK) |
| 5:35 pm | T21-012C | Glia and neurons from human iPSCs to address the pathology of Alzheimer's disease
Juan Antonio Garcia Leon (Malaga, Spain) |
| 5:36 pm | T21-013C | Is it real? An investigation of astrocyte to oligodendrocyte reprogramming <i>in vitro</i>
Justine Bajohr (Toronto, Canada) |
| 5:37 pm | T21-014C | Impact of the reactive cellular environment on glia-derived neurons in the injured adult mouse cortex
Catarina Fernandes (Mainz, Germany) |
| 5:38 pm | T21-015C | SnRNAseq dissection of Neurog2-induced glia-to-neuron reprogramming indicates progressive acquisition of homeostatic gene expression responses to neuronal activity modulation.
Filippo Calzolari (Mainz, Germany) |
| 5:39 pm | T21-016C | Generation of functional neurons from adult human olfactory ensheathing glia by direct lineage conversion
Javier Sierra (Pozuelo de Alarcón, Spain) |



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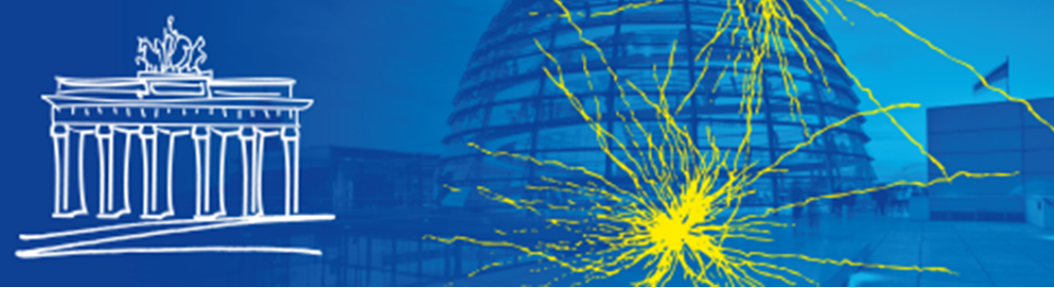


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| 5:40 pm | T22-006C | Regional and Time difference in K ⁺ Clearance in Hippocampal Slices of Healthy and Epileptic Mice
Nariman Kiani (Marseille, France) |
| 5:41 pm | T22-007C | Selective optical control of calcium signalling in astrocytes by Azobenzene photoswitches in vitro and ex-vivo.
Diletta Spennato (Bologna, Italy) |
| 5:42 pm | T22-008C | Purinergic control of microglia- balancing survival, inflammation and death
Hanna Bielecka (Norwich, UK) |
| 5:43 pm | T22-009C | Astrocytic intracellular chloride levels in functional hyperemia
Katharina F. Baumgart (Copenhagen, Denmark) |
| 5:44 pm | T25-043C | Biomolecular condensation of transcriptional regulator controls glial reactivity and neurotoxicity in the hippocampus
Kadri Seppa () |
| 5:45 pm | T25-044C | Peripheral glial cells regulate the inflammatory response during skin repair
Salome Stierli () |
| 5:46 pm | T25-045C | mitROS signalling controls the onset of CNS myelination and this is translated to remyelination
Joana Tavares () |
| 5:47 pm | T25-046C | A miR-124-mediated transcriptional and post-transcriptional mechanism controlling the cell fate switch of astrocytes to induced-neurons
Dimitra Thomaidou () |
| 5:48 pm | T25-047C | NETSseq Provides Deep Molecular Insight Into Astrocyte Biology, Identifying Complex Regional and State Dependent Heterogeneity in the Human Brain.
Chris Ugbode () |
| 5:49 pm | T25-048C | Towards in vivo gene editing therapy for conatal Pelizaeus-Merzbacher Disease (PMD)
Adrien Vaquié () |
| 5:50 pm | T25-049C | The role of Complement C3aR in adolescent brain development
Laura Westacott () |

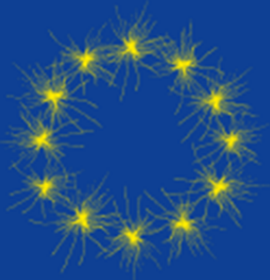


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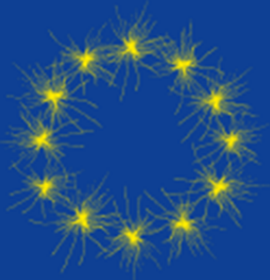
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|---------|----------|---|
| 5:51 pm | T25-050C | Exploring the Role of the Astrocytic Succinate Receptor 1 (SUCNR1) in Chronic Neuroinflammation
Cory Willis () |
| 5:52 pm | T25-051C | Focal Acute Hypoxia System for Brain Infarcts
Joseph Jo Yin Wong () |
| 5:53 pm | T25-052C | Characterising the role of St18 in oligodendrocyte differentiation
Daniel Yamamoto () |
| 5:54 pm | T25-053C | Developing an in vitro model of experimental autoimmune encephalomyelitis – a novel tool for studying multiple sclerosis that addresses 3R's principles
Shazia Yazdani () |
| 5:55 pm | T25-054C | Immune regulation of Kv1.3 channels in Microglia in Alzheimer's Disease
Christine Bowen () |
| 5:56 pm | T25-055C | Generation of iPSC-derived Myelinating Oligodendrocytes for Disease Modeling of Fatty Acid Hydroxylase-Associated Neurodegeneration (FAHN)
Fatima Efendic () |
| 5:57 pm | T25-057C | Characterizing Microglia Response to Early Life Stress and Alcohol Consumption
Stephen Gironda () |
| 5:58 pm | T25-058C | Specific detection and deletion of the Sigma-1 receptor in oligodendrocyte lineage cells for functional characterization in vivo
Qing Liu () |
| 5:59 pm | T25-059C | BRAIN-WIDE IMAGING OF NEURONAL ACTIVITY MODULATED BY MICROGLIA
Francesca Logiacco () |
| 6:00 pm | T25-060C | Bergmann glia control cerebellar monoamine release
Sambre Mach () |
| 6:01 pm | T25-061C | Diversity of dynamic voltage patterns in neuronal dendrites revealed by nanopipette electrophysiology
Daria Mozheiko () |



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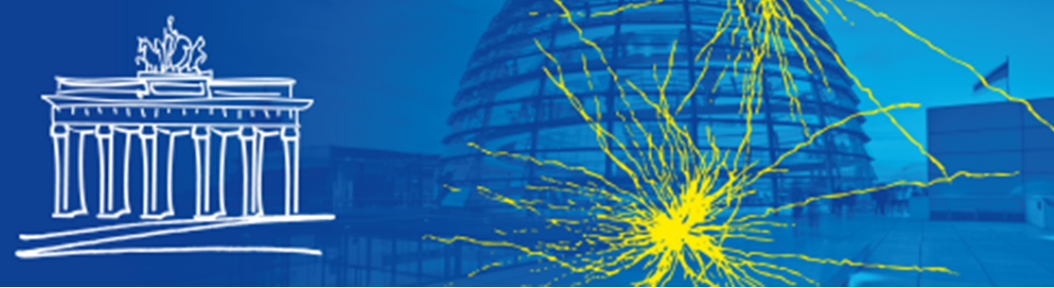


- 6:02 pm T25-062C In vivo TurboID proximity labeling for dual proteomic and transcriptomic signatures of astrocytes
Christina Ramelow ()
- 6:03 pm T25-063C Oligodendrocytes contribute to amyloid- β plaque burden primarily derived from excitatory neurons in vivo
Andrew Octavian Sasmita ()
- 6:04 pm T25-064C Functional and morphological characterization of Fananas cells, a mysterious cerebellar astrocyte
Antonin Singer ()



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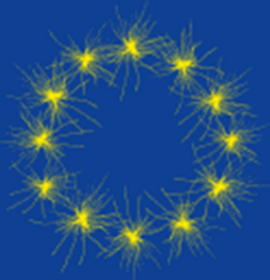
Monday, 10 July, 2023, 4:00 p.m. - 6:00 p.m.

S21 | Transcriptional control of myelination and repair

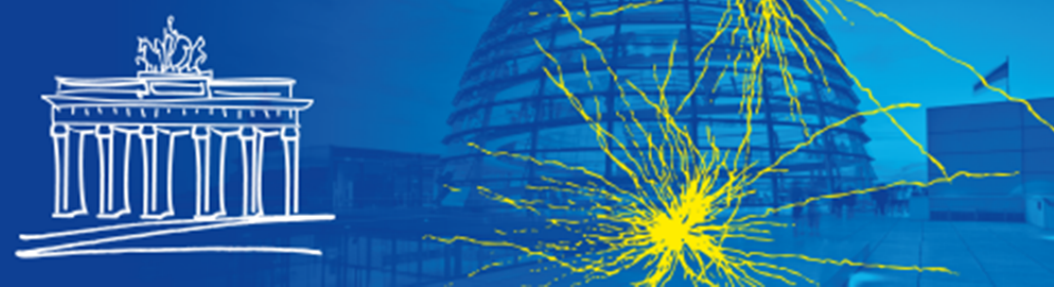
Chairs: **Claire Jacob** (Mainz, Germany)

Presentations:

- | | | |
|---------|--------|---|
| 4:00 pm | S21-01 | Age-dependent epigenetic and transcriptomic regulation of remyelinating cells in the central nervous system
Sarah Moyon (NYC, USA) |
| 4:30 pm | S21-02 | Role of promoter antisense RNAs in theregulation ofgenome organization and chromatin remodeling of Schwann cells
Nikos Tapinos (Providence, USA) |
| 5:00 pm | S21-03 | A genetic compensatory mechanism modulates the expression of distinct class IIa HDACs to ensure peripheral nerve myelination and repair
Hugo Cabedo (Sant Joan d'Alacant (Alicante), Spain) |
| 5:30 pm | S21-04 | Transcriptional control of regeneration in myelinating glia
Claire Jacob (Mainz, Germany) |



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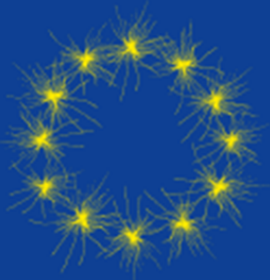
Monday, 10 July, 2023, 4:00 p.m. - 6:00 p.m.

S22 | Reprogramming glial cells into neurons: a new avenue for brain repair

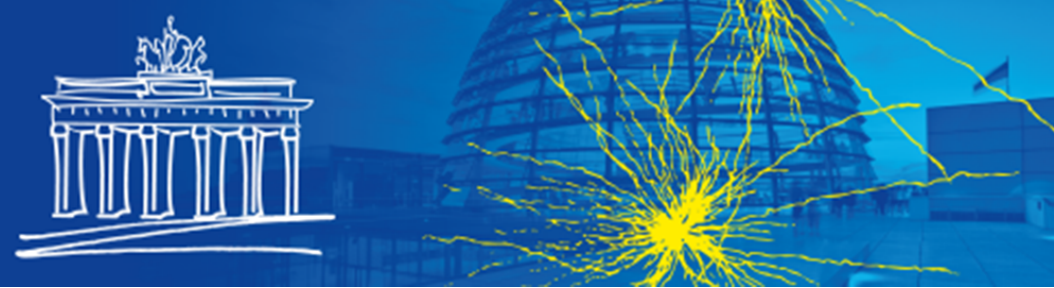
Chairs: **Christophe Heinrich** (Bron, France)

Presentations:

- | | | |
|---------|--------|---|
| 4:00 pm | S22-01 | Human glia reprogramming into interneurons - a therapeutic strategy for cell replacement?
Daniella Rylander Ottosson (Lund, Sweden) |
| 4:30 pm | S22-02 | Reprogramming reactive glia into GABAergic interneurons: a new avenue to reduce epileptic seizures
Christophe Heinrich (Lyon, France) |
| 5:00 pm | S22-03 | Dissecting the molecular framework underlying pericyte-to-neuron conversion
Marisa Karow (Erlangen, Germany) |
| 5:30 pm | S22-04 | Engineering neural cell fates: the impact of cellular context on direct lineage reprogramming in vivo
Benedikt Berninger (London, UK) |



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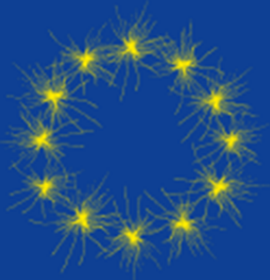
Monday, 10 July, 2023, 4:00 p.m. - 6:00 p.m.

S23 | Disentangling neuroinflammation and neurodegeneration using induced pluripotent stem cells: spotlight on glia

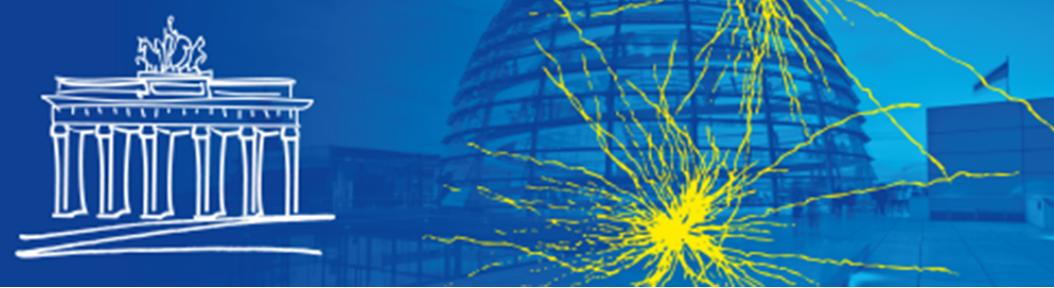
Chairs: **Rebecca Matsas** (Athens, Greece); **Jari Koistinaho** (Helsinki, Finland)

Presentations:

- | | | |
|---------|--------|--|
| 4:00 pm | S23-01 | Modelling neuroinflammation in vitro with iPS-microglia
Sally A. Cowley (Oxford, UK) |
| 4:30 pm | S23-02 | The impact of <i>PSEN1</i> ΔE9 mutation on iPSC-derived glial cells
Jari Koistinaho (Helsinki, Finland) |
| 5:00 pm | S23-03 | Astrocyte calcium dysfunction and neuronal hyperactivity in Alzheimer's Disease
Bart De Strooper (Leuven, Belgium) |
| 5:30 pm | S23-04 | Targeting neuron-astrocyte interplay in Parkinson's disease
REBECCA MATSAS (Athens, Greece) |



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Monday, 10 July, 2023, 4:00 p.m. - 6:00 p.m.

S24 | The many roles of microglia in brain development

Chairs: **Rosa Chiara Paolicelli** (Lausanne, Switzerland); **Michela Matteoli** (Pieve Emanuele (MI), Italy)

Presentations:

- | | | |
|---------|--------|--|
| 4:00 pm | S24-01 | Microglial Trem2 in the shaping of brain synapses and circuits
Michela Matteoli (Rozzano, Italy) |
| 4:30 pm | S24-02 | Neuronal phospholipid scramblase Xkr8 guides neuron-microglia interaction in developing brain
Urte Neniskyte (Vilnius, Lithuania) |
| 5:00 pm | S24-03 | Diversity of microglia in a model of perinatal inflammation
Pierre Gressens (Paris, France) |
| 5:30 pm | S24-04 | Dysfunctional microglia lacking TDP-43 influences the maturation of the motor-somatosensory cortex in the early postnatal brain
Rosa Chiara Paolicelli (Lausanne, Switzerland) |



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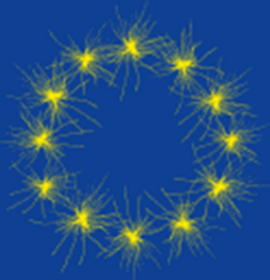
Monday, 10 July, 2023, 4:00 p.m. - 6:00 p.m.

S25 | Sculpting of neuronal circuit function by the structural plasticity of astrocytes

Chairs: **Min Zhou** (Columbus, USA); **Michelle Olsen** (Blacksburg, USA)

Presentations:

- | | | |
|---------|--------|---|
| 4:00 pm | S25-01 | <i>BDNF Signaling onto Astrocyte TrkB.T1 Drives Astrocyte Structural Plasticity Supporting Glutamatergic Synaptogenesis</i>
Michelle L. Olsen (Blacksburg, USA) |
| 4:30 pm | S25-02 | Regional heterogeneity of astrocyte morphogenesis via formins modifies circuit function
Hyun Kyoung Lee (Houston, USA) |
| 5:00 pm | S25-03 | <i>Anisotropic gap junctional coupling reflects tonotopic organization of neuronal circuitry in the auditory brainstem</i>
Jonathan Stephan (Düsseldorf, Germany) |
| 5:30 pm | S25-04 | Astrocyte syncytium shapes the plasticity of synaptic transmission
Min Zhou (Columbus, USA) |



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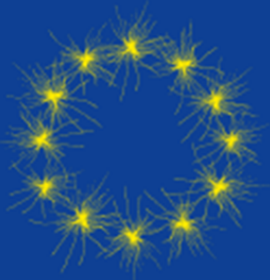
Tuesday, 11 July, 2023, 8:30 a.m. - 9:30 a.m.

L06 | Plenary Lecture VI: Anne Schaefer

Chairs: **David Lyons** (Edinburgh, UK)

Presentations:

8:30 am L06-01 The operational principles of neuron-microglia circuits
 Anne Schaefer (Cologne, Germany)



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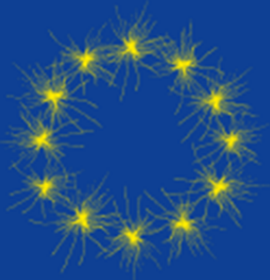
Tuesday, 11 July, 2023, 10:00 a.m. - 12:00 p.m.

S26 | Glia-Glia interaction in brain physiopathology

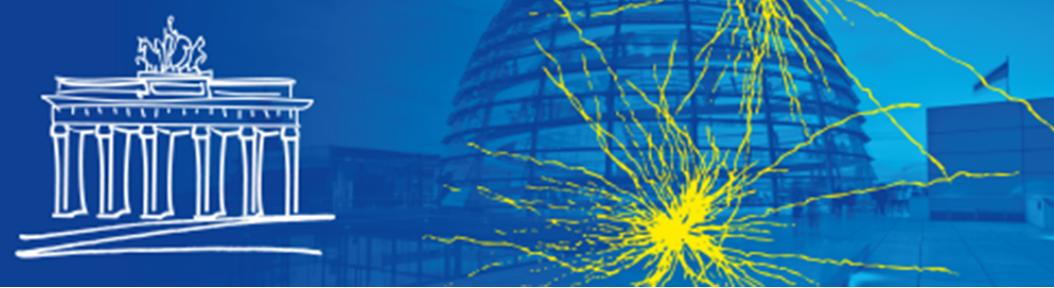
Chairs: **Alexei Verkhratsky** (Manchester, UK); **Chenju Yi** (Shenzhen, China)

Presentations:

- | | | |
|----------|--------|--|
| 10:00 am | S26-01 | Astrocyte endfoot formation controls the termination of oligodendrocyte precursor cell perivascular migration during development
Chenju Yi (Shenzhen, China) |
| 10:30 am | S26-02 | Scar-forming severe reactive astrocytes as fibroblasts
C Justin Lee (Daejeon, South Korea) |
| 11:00 am | S26-03 | Microenvironment in the brain after peripheral tumor metastases
Mami Noda (Xi'an, China) |
| 11:30 am | S26-04 | Astrocytes regulate glial homeostatic and defensive capabilities of the brain active milieu
Alexei Verkhratsky (Manchester, UK) |



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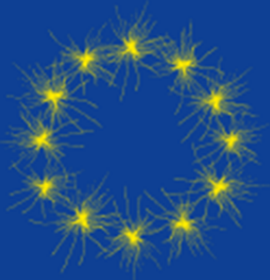
Tuesday, 11 July, 2023, 10:00 a.m. - 12:00 p.m.

S27 | Oligodendrocyte progenitor cell fates and interactions with neurons in the adult and developing brain

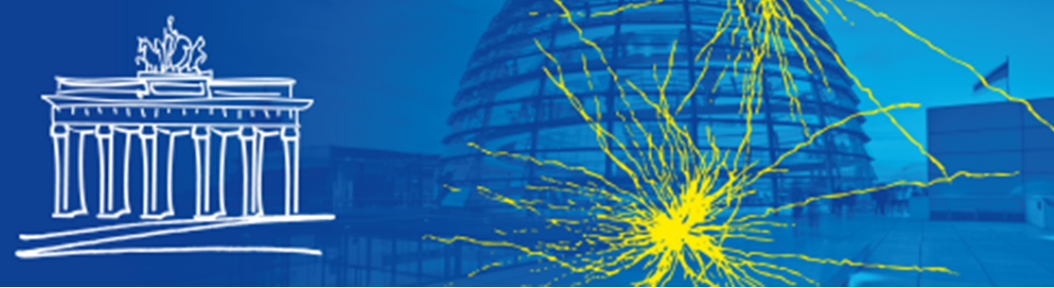
Chairs: **Akiko Nishiyama** (Storrs, USA); **Enrica Boda** (Orbassano, Italy)

Presentations:

- | | | |
|----------|--------|---|
| 10:00 am | S27-01 | Dynamic extension of oligodendrocyte precursor cell processes toward active neurons in the hippocampus
Akiko Nishiyama (Storrs, USA) |
| 10:30 am | S27-02 | Refinement of developing circuits through synaptic phagocytosis by oligodendrocyte precursor cells
Lucas Cheadle (Cold Spring Harbor, USA) |
| 11:00 am | S27-03 | Oligodendrocyte precursor cells guide cortical interneuron migration by unidirectional contact repulsion
Laurent Nguyen (Liège, Belgium) |
| 11:30 am | S27-04 | Molecular and functional heterogeneity in dorsal and ventral oligodendrocyte progenitor cells of the mouse forebrain in response to DNA damage
Enrica Boda (Orbassano (Turin), Italy) |



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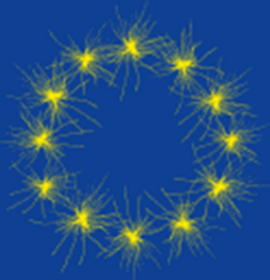
Tuesday, 11 July, 2023, 10:00 a.m. - 12:00 p.m.

S28 | Lipid metabolism as major determinant of CNS remyelination

Chairs: **Gesine Saher** (Goettingen, Germany); **Jerome Hendriks** (Hasselt, Belgium)

Presentations:

- | | | |
|----------|--------|--|
| 10:00 am | S28-01 | Local cholesterol and lipid metabolism orchestrate the repair of demyelinated lesions
Gesine Saher (Goettingen, Germany) |
| 10:30 am | S28-02 | Myelin induced alterations in cellular lipid metabolism direct the reparative properties of microglia.
Jerome Hendriks (Hasselt, Belgium) |
| 11:00 am | S28-03 | Role of microglia and lipid metabolism in remyelination
Mikael Simons (Munich, Germany) |
| 11:30 am | S28-04 | Lipoxin A ₄ : a novel therapeutic strategy to dampen neuro-inflammation and boost remyelination in MS
Gijs Kooij (Amsterdam, Netherlands) |



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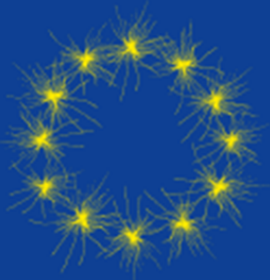
Tuesday, 11 July, 2023, 10:00 a.m. - 12:00 p.m.

S29 | Oligodendrocyte precursors shape brain circuits

Chairs: **Xianshu Bai** (Homburg, Germany)

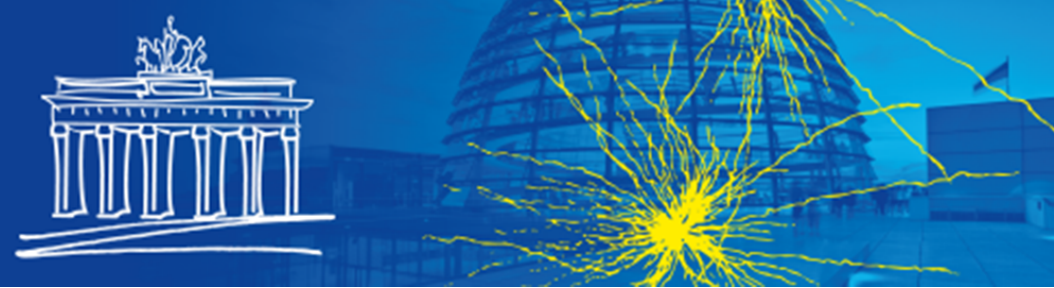
Presentations:

- | | | |
|----------|--------|---|
| 10:00 am | S29-01 | Bi-directional communication of oligodendrocyte precursors with interneurons determines social cognition
Xianshu Bai (Homburg, Germany) |
| 10:30 am | S29-02 | Early parvalbumin interneuron-OPC synapses sculpt cortical inhibition and behavior
Maria Cecilia Angulo (Paris, France) |
| 11:00 am | S29-03 | Dysfunction of NG2 glia affects neuronal plasticity and behavior
Christian Steinhäuser (Bonn, Germany) |
| 11:30 am | S29-04 | NG2 glia, GABA synapses, and beyond
Xiaoping Tong (Shanghai, China) |



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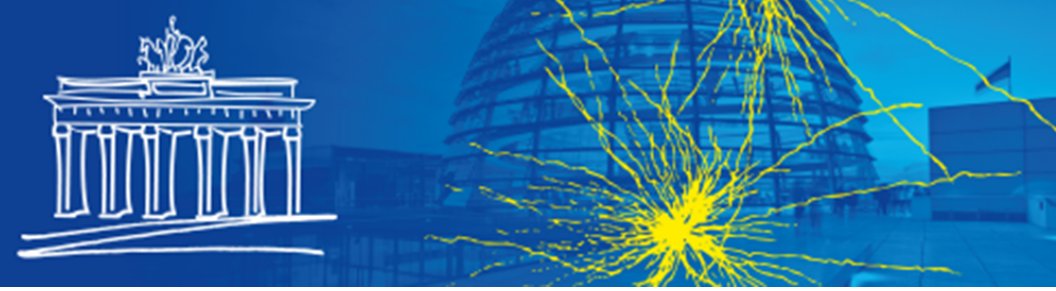
Tuesday, 11 July, 2023, 10:00 a.m. - 12:00 p.m.

S30 | Glial senescence in neurodegeneration

Chairs: **Diego Gomez-Nicola** (Southampton, UK)

Presentations:

- | | | |
|----------|--------|---|
| 10:00 am | S30-01 | Dystrophic microglia in the human brain and their potential role in Alzheimer's disease
Ingo Bechmann (Leipzig, Germany) |
| 10:30 am | S30-02 | Replicative senescence in microglia in Alzheimer's disease
Diego Gomez-Nicola (Southampton, UK) |
| 11:00 am | S30-03 | Contribution of senescent glial cells to neurodegeneration in mice
Darren Baker (Rochester, USA) |
| 11:30 am | S30-04 | Phagocytosis of tau aggregate-containing neurones promotes senescence features in microglia in tauopathies
Maria Grazia Spillantini (Cambridge, UK) |



Tuesday, 11 July, 2023, 12:45 p.m. - 1:45 p.m.

L07 | Plenary Lecture VII: Michelle Monje

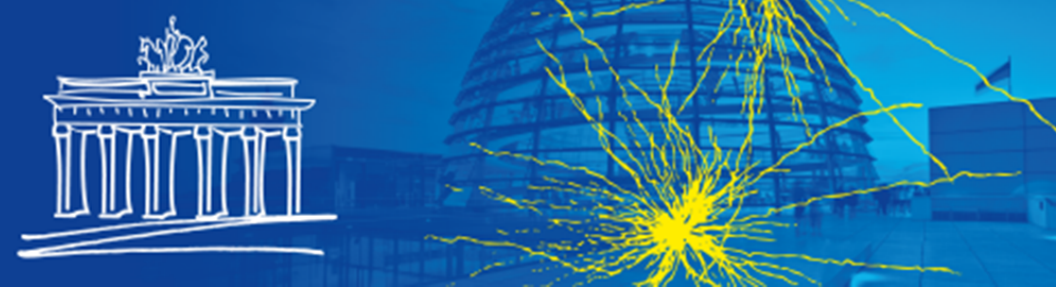
Chairs: **Helmut Kettenmann** (Berlin, Germany)

Presentations:

12:45 pm L07 Neuron-glia interactions in health and disease: from cognition to cancer
Michelle Monje (Stanford, USA)



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Tuesday, 11 July, 2023, 1:45 p.m. - 2:00 p.m.

Closing | Closing

Chairs: **Helmut Kettenmann** (Berlin)

Presentations:

1:45 pm Closing-01 Closing & Invitation to GLIA 2025
 Helmut Kettenmann (Berlin, Germany), **Pascale Durbec** (Marseille, France)