Preliminary Program (as of March 31, 2017)
Please note the time changes according to the implementation of three poster sessions from Saturday to Monday!

**Friday, July 7, 2017**

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>9:30–17:00</td>
<td><strong>Introductory Course</strong></td>
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<tr>
<td>9:30–10:05</td>
<td>Dwight Bergles (Baltimore, USA): Live imaging of glia</td>
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<tr>
<td>10:05–10:40</td>
<td>Rory Duncan (Edinburgh, UK): Super resolution microscopy</td>
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<tr>
<td>10:40–11:10</td>
<td>Coffee break</td>
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<tr>
<td>11:10–11:45</td>
<td>David Lyons (Edinburgh, UK): Using zebrafish to understand glial biology</td>
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<tr>
<td>11:45–12:20</td>
<td>Klaus-Armin Nave (Göttingen, Germany): A dual role of myelinating glia in axonal conduction and energy metabolism</td>
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<tr>
<td>12:20–12:55</td>
<td>Coffee break</td>
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<tr>
<td>12:55–14:00</td>
<td>David Rowitch (San Francisco, USA and Cambridge, UK): Astrocytes</td>
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<tr>
<td>14:00–14:35</td>
<td>Lunch</td>
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<td>14:35–15:10</td>
<td>Veronique Miron (Edinburgh, UK): Microglia: the architects of the central nervous system in health and disease</td>
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<tr>
<td>15:10–15:40</td>
<td>Steve Goldman (Rochester, USA and Copenhagen, Denmark): iPS cells to study glia and glial diseases</td>
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<td>15:40–16:15</td>
<td>Coffee break</td>
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<tr>
<td>16:15–16:50</td>
<td>Steve Pollard (Edinburgh, UK): Glial tumours and cancer stem cells</td>
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<td>16:50–18:00</td>
<td>Coffee break</td>
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<tr>
<td>20:00–23:00</td>
<td><strong>Ceilidh at Teviot Row House, Edinburgh University</strong></td>
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**Saturday, July 8, 2017**

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<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>8:30–12:30</td>
<td><strong>Workshop I</strong></td>
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<tr>
<td>8:30–9:05</td>
<td>William Ford Robertson little branched cells: paving the way to oligodendrocyte and microglia discovery</td>
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<tr>
<td>9:05–9:40</td>
<td>Organizers: Anne Boullerne (Chicago, USA); George De Vries (Richmond, USA)</td>
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<tr>
<td>9:40–10:15</td>
<td>George de Vries (Richmond, USA): The controversy concerning the “third element” of Santiago Ramón y Cajal</td>
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<tr>
<td>10:15–10:45</td>
<td>Arthur Butt (Portsmouth, UK): William Ford Robertson and his little branched brain cells</td>
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<tr>
<td>10:45–11:20</td>
<td>Juan del Río-Hortega Bereciart (Valladolid, Spain): Microglia and Oligodendroglia: the unfortunate story of Pío del Río-Hortega</td>
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<tr>
<td>11:20–11:55</td>
<td>Anne Boullerne (Chicago, USA): A brief history of myelin from 15th century to present</td>
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<tr>
<td>11:55–12:30</td>
<td>Paul Foley (Sydney, Australia): So misunderstood: The story of the Schwann cell</td>
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<tr>
<td>12:30–12:30</td>
<td>Georg Kreutzberg (Martinsried, Germany): The odyssey of microglia discovery since 19th century</td>
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<tr>
<td>8:30–12:30</td>
<td><strong>Workshop II</strong></td>
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<tr>
<td>8:30–12:30</td>
<td>Microglia in pathology: understanding and manipulating microglial functions in CNS pathology</td>
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<tr>
<td>8:30–12:30</td>
<td>Organizers: Barry McColl (Edinburgh, UK); Dirk Sieger (Edinburgh, UK); Veronique Miron (Edinburgh, UK); Guy Brown (Cambridge, UK)</td>
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8:30–9:00 Sponsored by

9:00–9:30

9:30–10:00

10:00–10:15 Dirk Sieger (Edinburgh, UK): A zebrafish live imaging model to study microglia-glioma interactions

10:15–10:45 Barry McColl (Edinburgh, UK): Benefits and mechanisms of microglial/macrophage activation on injury resolution and repair in the brain after stroke

10:45–11:15 Anna Vilalta (Cambridge, UK): Inflammation and neurotoxic mechanisms of microglia

11:15–11:45 Bert J. L. Eggen (Groningen, Netherlands): The human microglia transcriptome in relation to aging


12:15–12:30 José Luis Venero (Seville, Spain): Immunomodulatory roles of galectin-3 under conditions of neurodegeneration

13:00–13:15 Opening

13:15–14:15 Plenary Lecture P01

Eric A. Newman (Minneapolis, USA)
Glia cell regulation of blood flow: fact or fantasy?

14:15–17:15 Poster Session I

17:15–19:15 Symposia I (S01–S05)

S01 Schwann cells and their role in motor axon regeneration
Organizers: Michela Rigoni (Padua, Italy); Rhona Mirsky (London, UK)
Thomas Misgeld (Munich, Germany): Neuro-glia interactions during motor axon remodelling
Richard Robitaille (Montreal, Canada): Role of persisynaptic Schwann cells in the outcome of synaptic competition at the neuromuscular synapse
Rhona Mirsky (London, UK): Transcriptional mechanisms that maintain Schwann cell function and morphology
Michela Rigoni (Padua, Italy): Motor axon terminal-persisynaptic Schwann cells crosstalk at the neuromuscular junction during neuroregeneration

S02 Transcriptional states within the oligodendrocyte lineage
Organizer: Gonçalo Castelo-Branco (Stockholm, Sweden)
Sarah Moyon (New York, USA): Integrated transcriptomic and methylomic network of the oligodendrocyte lineage
Steve Goldman (Copenhagen, Denmark): Human glial progenitor cell-based treatment and modeling of neurological disease
Annalisa Buffo (Torino, Italy): Are oligodendrocyte progenitors all born equal? Lessons from a microcephaly mouse model and fate-mapping studies
Gonçalo Castelo-Branco (Stockholm, Sweden): Oligodendrocyte heterogeneity in the central nervous system as revealed by single cell RNA-Seq

S03 Glial physiology meets glial metabolism
Organizer: Pierre Magistretti (Thuwal, Saudi Arabia)
L. Felipe Barros (Valdivia, Chile): Multiscale integration of neuronal and astrocytic energy metabolism
Bruno Weber (Zurich, Switzerland): Glia-neuron interaction in the light of in vivo two-photon imaging
Pierre Magistretti (Thuwal, Saudi Arabia): Neuron-glia metabolic coupling: role in neuronal plasticity, memory and neuroprotection
Arthur Konnerth (Munich, Germany): Astrocytes and storage of long-term memories

**S04 Greasy astrocyte-neuron interactions at the synapse**
Organizers: Mark Verheijen (Amsterdam, Netherlands); Marta Valenza (Milan, Italy)
Frank Pfrieger (Strasbourg, France): Does synapse formation depend on glia-derived cholesterol: an update!
Rogier Min (Amsterdam, Netherlands): The role of glial versus neuronal cannabinoid receptors in developmental plasticity of the visual cortex
Mark Verheijen (Amsterdam, Netherlands): Synapse development is dependent on lipids derived from astrocytes and diet
Marta Valenza (Milan, Italy): Connection between astrocytes, cholesterol and synaptic dysfunction in Huntington’s disease

**S05 Glial cells in control of blood-brain barrier integrity**
Organizer: Luc Leybaert (Gent, Belgium)
Jorge I. Alvarez (Philadelphia, USA): The gliovascular interface functions as a central regulator of neuroinflammatory responses
Ken Arai (Harvard, USA): Roles of oligodendrocyte precursor cells in blood-brain barrier under physiological and pathophysiological conditions
Luc Leybaert (Gent, Belgium): Connexins and calcium signaling as targets to mitigate inflammation-induced blood-brain barrier dysfunction
Mirko H. H. Schmidt (Mainz, Germany): The neurovascular protein EGFL7 in health and disease

19:15–20:00 Informal Get-together

**Sunday, July 9, 2017**

8:30–9:30 Plenary Lecture P02
Mike W. Salter (Toronto, Canada)
Twists and turns in neuron-glia signalling in pain neuroplasticity

9:30–10:00 Coffee break

10:00–12:00 Symposia II (S06–S10)

**S06 Role of astrocytes in synaptic function and chronic brain diseases**
Organizers: Michelle Olsen (Birmingham, UK); Gabor Petzold (Bonn, Germany)
Aude Panatier (Bordeaux, France): Astrocytic EphB3 receptor controls NMDAR functions at the tripartite synapse
Andrea Volterra (Lausanne, Switzerland): Astrocyte-synapse signalling in cognitive function and dysfunction: 3D Ca2+ dynamics and role of TNFa
Michelle Olsen (Birmingham, UK): A role for astrocytes in chemoreception: implications for Rett syndrome
Gabor Petzold (Bonn, Germany): Role of astrocytes in stroke and Alzheimer’s disease

**S07 Synaptic regulation of NG2 cell function**
Organizer: Vittorio Gallo (Washington, USA)
Jonah Chan (San Francisco, USA): Uncoupling oligodendrocyte differentiation and myelination during development of the optic nerve: is dynamic neuronal signaling required?
Vittorio Gallo (Washington, USA): GABAergic regulation of NG2 cell function and myelination in cerebellum
Maria Kukley (Tubingen, Germany): Regulation of oligodendrocyte precursor cells differentiation by AMPA receptors in vivo
Jacqueline Trotter (Mainz, Germany): More than myelination: oligodendrocyte progenitor cells as receivers and transducers of neuronal network signals
S08 Schwann cell plasticity in nerve injury, demyelinating neuropathies and tumours of the PNS
Organizers: David Parkinson (Plymouth, UK); Ashwin Woodhoo (Derio, Spain)
David Parkinson (Plymouth, UK): The Merlin tumour suppressor controls the repair capacity of Schwann cells following injury by regulating Hippo pathway signalling
Nancy Ratner (Cincinnati, USA): Signaling pathways critical to peripheral nerve tumorigenesis
Maurizio D’Antonio (Milan, Italy): Limited Schwann cell differentiation as a protective mechanism in CMT1B neuropathy with activated unfolded protein response
Ashwin Woodhoo (Derio, Spain): The Borrelia burgdorferi bacterium: a novel contact-dependent inducer of peripheral nerve demyelination

S09 Microglia: guiding brain development
Organizers: Bert Brône (Hasselt, Belgium); Sonia Garel (Paris, France)
Florent Ginhoux (Singapore): Modeling microglial differentiation and function in vitro using induced pluripotent stem cells
Bert Brône (Hasselt, Belgium): Microglial integrins switch jobs during cortical development
Sonia Garel (Paris, France): Microglia and prenatal inflammation in the development of cortical circuits
Francesca Peri (Heidelberg, Germany): The brain under surveillance: the role neuronal-microglial interactions in the development and repair of the CNS

S10 Mathematical and computational approaches to the 'big data' challenge in neuron-glia interactions
Organizers: Maurizio De Pittà (Chicago, USA); Elena Galea (Bellaterra, Spain)
David Attwell (London, UK): Tuning of axonal conduction speed by myelinated axon morphology
Maurizio De Pittà (Chicago, USA): Conditions for the observation of regulation of synaptic transmission by gliotransmitters
Elena Galea (Bellaterra, Spain): Spatial analysis of astrocytes in health and in Alzheimer's disease
Levi Wood (Atlanta, USA): Multivariate regression profiling of cytokines in Alzheimer's disease

12:00 – 12:45  Lunch Break
12:45–15:45  Poster Session II
15:45–17:45  Symposia III (S11–S15)

S11 The role and promise of NG2-glia in CNS injury
Organizers: Michael Schäfer (Mainz, Germany); Leda Dimou (Munich, Germany)
Michael Schäfer (Mainz, Germany): The NG2 proteoglycan counteracts adverse glial responses and neurological deficits after traumatic brain injury
Leda Dimou (Munich, Germany): NG2-glia in health and disease: their role in the adult brain
Rebecca Matsas (Athens, Greece): Neural stem cell grafts in brain injury: reciprocal interactions with the host tissue
Wolfram Tetzlaff (Vancouver, Canada): Fate mapping of oligodendrocyte precursor cells (OPCs) after spinal cord injury and role of oligodendrocyte remyelination in functional recovery

S12 Astrocytes in cognitive function: from molecules and synapses to circuits and behavior
Organizers: João Filipe Oliveira (Braga, Portugal); Alfonso Araque (Minneapolis, USA)
João Filipe Oliveira (Braga, Portugal): Astrocytes support hippocampal-prefrontal theta synchronization and cognitive function
Alfonso Araque (Minneapolis, USA): Circuit-specific synaptic regulation by astrocytes
Nathalie Rouach (Paris, France): Astroglial networks orchestrate neuronal synchrony
Kira Poskanzer (San Francisco, USA): Astrocytic control of the cortical slow oscillation

S13 CNS pericytes in health and disease
Organizers: Marisa Karow (Munich, Germany); Christian Göritz (Stockholm, Sweden)
Marisa Karow (Munich, Germany): Defining the molecular underpinnings of pericyte-to-neuron conversion
Christian Göritz (Stockholm, Sweden): Attenuation of pericyte-derived fibrosis promotes axonal regeneration and functional recovery following CNS injury
Paula Dore-Duffy (Detroit, USA): Murine microvascular pericyte differentiation along the neural lineage
Kassandra Kisler (Los Angeles, USA): Regulation of cerebral blood flow in pericyte-deficient mice

S14 The basic mechanisms of successful neural repair
Organizer: Kristjan Jessen (London, UK)
Simone Di Giovanni (London, UK): Epigenetic regulation of axonal regeneration
Kristjan Jessen (London, UK): Manipulation of repair Schwann cells to correct regeneration failures due to chronic denervation and advancing age
Kelly Monk (St. Louis, USA): Adhesion GPCRs in peripheral nerve repair
Ruth Stassart (Göttingen, Germany): The role of Schwann cell derived Neuregulin-1 in peripheral nerve diseases

S15 Role of microglial metabolism in neuroinflammation
Organizers: Henrik Hagberg (Gothenburg, Sweden); Bobbi Fleiss (London, UK)
Bobbi Fleiss (London, UK): Understanding the role of lipid metabolism in microglial activation
Myriam Baes (Leuven, Belgium): Microglia metabolism: causes and consequences of immune activation
Henrik Hagberg (Gothenburg, Sweden): Effect of inhibition of mitochondrial fission with mdivi-1 on the LPS-induced metabolic, immune and mito-morphologic responses in microglia
Claudia Verderio (Milan, Italy): Functional roles of extracellular vesicles derived from microglia with diverse activation states

17:45–18:15 Coffee break
18:15–19:15 Plenary Lecture P03
Yukiko Gotoh (Tokyo, Japan)
Regulation of astrocyte production in the mouse neocortex

Monday, July 10, 2017

8:30–9:30 Plenary Lecture P04
Fiona Doetsch (Basel, Switzerland)
Stem cells in the adult brain: glial identity and niches

9:30–10:00 Coffee break
10:00–12:00 Symposia IV (S16–S20)
S16 Implications of glial dysfunction in lysosomal storage diseases
Organizer: Tammy Kielian (Omaha, USA)
Tammy Kielian (Omaha, USA): Aberrant caspase-1 activity influences juvenile Batten disease pathogenesis
Jonathan Cooper (London, UK): The nature of glial dysfunction and its impact upon neurons varies between forms of neuronal ceroid lipofuscinosis (NCLs, or Batten disease)
Tony Futerman (Rehovot, Israel): Brain pathology in neurological forms of Gaucher disease
Frances Platt (Oxford, UK): Changes in glial cell function in Niemann-Pick type C disease as therapeutic targets

S17 Opposing roles of astrocyte gap junction coupling in brain diseases: phosphorylation matters?
Organizers: Christian Steinhäuser (Bonn, Germany); Nanna MacAulay (Copenhagen, Denmark)
Nanna MacAulay (Copenhagen, Denmark): Astrocytic connexin hemichannels are regulated by PKC phosphorylation in an isoform-specific manner
Christian Naus (Vancouver, Canada): Connexin43 phosphorylation impacts ischemic injury in stroke
Christian Steinhäuser (Bonn, Germany): Cytokine-induced phosphorylation of Cx43 and uncoupling of hippocampal astrocytes as a cause of human temporal lobe epilepsy
Frank Winkler (Heidelberg, Germany): Cx43 gap junctions connect malignant astrocytoma cells to a functional and resistant network

S18 Drosophila glia: reconstructing the nervous system
Organizers: Angela Giangrande (Illkirch, France); Alicia Hidalgo (Birmingham, UK)
Angela Giangrande (Illkirch, France): The Glide/Gcm fate determinant controls initiation of collective cell migration by regulating Frazzled
Alicia Hidalgo (Birmingham, UK): Glial gene networks for CNS regeneration and repair: from fruit-flies to mammals
Benjamin Altenhein (Cologne, Germany): Glial cell migration in Drosophila: individual cell identities and cell-cell communication
Christian Klämbt (Munster, Germany): Drosophila ensheathing glial cells actively modulate locomotion behavior

S19 Signals regulating microglial phagocytosis of neurons, synapses and myelin
Organizers: Guy Brown (Cambridge, UK); Harald Neumann (Bonn, Germany)
Guy Brown (Cambridge, UK): Microglial phagocytosis of neurons via VNR, MER and P2Y6 may contribute to inflammatory brain pathology
Harald Neumann (Bonn, Germany): Inhibition of innate immunity by low molecular weight polysialic acid as a novel therapy approach for age related macula degeneration
Dorothy Schafer (Worchester, UK): A synaptic feast: microglial phagocytosis governing neural circuit plasticity
Shlomo Rotshenker (Jerusalem, Israel): Myelin activates and inhibits its own phagocytosis by simultaneous ligation of both activator-phagocytic and inhibitor-SIRPa receptors on microglia and macrophages

S20 Cytoskeleton dynamics in glia
Organizers: João Bettencourt Relvas (Porto, Portugal); Carmen Melendez-Vasquez (New York, USA)
João Bettencourt Relvas (Porto, Portugal): Rho GTPase regulation of glia homeostasis
Carmen Melendez-Vasquez (New York, USA): Mechanical properties of the injured CNS: implications for remyelination and repair
Holly Colognato (Stony Brook, USA): Dystroglycan: a structural linker repurposed to regulate signaling pathways critical to postnatal brain development
Andrew Jarjour (Edinburgh, UK): Polarity signalling controls the formation and organization of CNS myelin

12:00–12:45 Lunch Break
12:45–15:45 Poster Session III
15:45–17:45 Symposia V (S21–S25)

S21 Astrocyte regulation of neuronal synapse number and strength
Organizers: Nicola Allen (La Jolla, USA); Cagia Eroglu (Durham, UK)
Nicola Allen (La Jolla, USA): Astrocyte regulation of neuronal glutamate receptors
Cagla Eroglu (Durham, UK): Control of synaptic connectivity by astrocytes
Andreas Faissner (Bochum, Germany): Tenascin proteins and chondroitin sulfate proteoglycans modulate formation and plasticity of the tripartite synapse
David Rowitch (Cambridge, UK): Development of functionally heterogeneous astrocytes in mammalian CNS

S22 Microglia physiology in health and disease: new mechanisms and signalling pathways
Organizers: Christian Madry (London, UK); Renaud Jolivet (Geneva, Switzerland)
Christian Madry (London, UK): Microglial surveillance of the brain is regulated by an anaesthetic-sensitive two-pore domain K+ channel
Renaud Jolivet (Geneva, Switzerland): Two-photon imaging of calcium signalling in hippocampal microglia
Katerina Akassoglou (San Francisco, USA): Microglia responses to BBB disruption: mechanisms, imaging, therapeutics
Knut Biber (Freiburg, Germany): Protective microglia responses are fading in models for neurodegenerative diseases

S23 Dysregulation of protein translation and myelin disorders
Organizer: Wensheng Lin (Minneapolis, USA)
Orna Elroy-Stein (Tel Aviv, Israel): The importance of tight control of protein synthesis to brain homeostasis: lessons from vanishing white matter disease
Christopher Proud (Adelaide, Australia): How do mutations in the genes for eukaryotic initiation factor 2B lead to vanishing white matter disease?
Kevin Ess (Nashville, USA): Control of myelination by mTOR kinase signaling in tuberous sclerosis complex
Wensheng Lin (Minneapolis, USA): Impaired eIF2B activity in oligodendrocytes contributes to vanishing white matter disease pathogenesis

S24 Conflicting roles of neuro-glial responses in stroke and brain injury
Organizer: Jaroslaw Aronowski (Houston, USA)
Eng Lo (Charlestown, USA): Help-me signaling for CNS recovery
Jaroslaw Aronowski (Houston, USA): Ischemic neurons modulate early microglia/macrophages phenotype and post-injury brain cleanup and recovery process
Jun Chen (Shanghai, China): Microglia/macrophage polarization: a double-edged sword for brain injury and repair
Maria Moro (Madrid, Spain): Modulation of the interplay between the CNS and the innate immune system for neuroprotection and recovery in stroke

S25 Heterogeneity of reactive astrocytes; dissecting astrocyte (dys)function in neurological disease
Organizers: Stefanie Robel (Roanoke, USA); Frank Kirchhoff (Homburg/Saar, Germany)
Keith Murai (Montreal, Canada): Mechanisms generating astrocyte diversity in the mature brain: Implications for the injured and diseased brain
Magdalena Goetz (Munich, Germany): The role of astrocyte heterogeneity – from stem cells to scar formation
Frank Kirchhoff (Homburg/Saar, Germany): Heterogeneity of astrocytes in the mouse cortex – how behavior or trauma affect glial properties in vivo
Stefanie Robel (Roanoke, USA): Heterogeneity of reactive astrocytes in traumatic brain injury

17:45–18:15 Coffee break
18:15–19:15 Plenary Lecture P05
Laura Feltri (Buffalo, USA)
Chemical and mechanical cues govern Schwann cell-axon interactions and myelination
Tuesday, July 11, 2017

8:30–9:30  Plenary Lecture P06
Richard Daneman (San Diego, USA)
The blood-brain barrier in health and disease

Supported by:
MedImmune
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9:30–10:00  Coffee break

10:00–12:00  Symposia VI (S26–S30)

S26 Metabolic homeostasis, a key stone in myelinated fiber biology
Organizer: Nicolas Tricaud (Montpellier, France)
Bogdan Bejrowski (Buffalo, USA): Upholding nerve integrity by metabolic signaling in Schwann cells
Klaus-Armin Nave (Göttingen, Germany): Powering axons: novel functions of oligodendrocytes in energy metabolism
Kim Do (Lausanne, Switzerland): Redox regulation and myelin in schizophrenia: a human and mice study
Nicolas Tricaud (Montpellier, France): Challenging the lactate production and transport in Schwann cell myelinated fibers

S27 Brain lactate shuttling: from physiology to therapy
Organizers: Anne-Karine Bouzier-Sore (Bordeaux, France); Lorenz Hirt (Lausanne, Switzerland)
Stefanie Schirmeier (Münster, Germany): The Drosophila glia-neuron lactate shuttle
Jérôme Clasadonte (Lille, France): Connexin 43-mediated astroglial metabolic networks contribute to the regulation of the sleep-wake cycle
Anne-Karine Bouzier-Sore (Bordeaux, France): Role of lactate in brain energy metabolism and neuroprotection
Lorenz Hirt (Lausanne, Switzerland): Lactate as a neuroprotectant in cerebral ischemia

S28 Role of peripheral and central glia in chronic pain
Organizer: Julie Olson (Minneapolis, USA)
Parisa Gazerani (Aalborg, Denmark): Communication between satellite glial cells and ganglion neurons in sensory ganglia under normal and pathological pain signaling
Makoto Tsuda (Fukuoka, Japan): Purinergic stimulation of spinal microglia contributes to chronic pain
Julie Olson (Minneapolis, USA): Deciphering glia-neuron interactions to develop new therapies for chronic pain
Marzia Malcangio (London, UK): Neuroimmune communication in chemotherapy-induced neuropathic pain

S29 Glia-immune cell interaction in neuroinflammatory diseases
Organizers: Ari Waisman (Mainz, Germany); Francisco Quintana (Boston, USA)
Ari Waisman (Mainz, Germany): Inflammatory cues in microglia repopulation and function
Francisco Quintana (Boston, USA): Regulation of CNS inflammation by astrocytes
Roland Liblau (Toulouse, France): Neurons cannot ignore T cells: therapeutic implications for inflammatory neurological diseases
Burkhard Becher (Zürich, Switzerland): How cytokines can trigger neuroinflammation

S30 Astrocyte contributions to NMDA receptor-dependent synaptic plasticity and learning
Organizers: Christian Henneberger (Bonn, Germany); Giovanni Marsicano (Bordeaux, France)
Yuriy Pankratov (Coventry, UK): Synergistic action of glutamategic and purinergic gliotransmitters in the neocortex

Philip Haydon (Boston, USA): Wakefulness dependent cholinergic modulation of astrocyte-derived D-serine and NMDA receptor function

Giovanni Marsicano (Bordeaux, France): Astroglial CB1 receptors control object recognition memory via D-serine

Christian Henneberger (Bonn, Germany): Endocannabinoids control NMDAR-dependent supra-linear dendritic integration via astroglial co-agonist supply

12:00–12:45 Lunch Break

12:45–13:45 Plenary Lecture L7
Dwight Bergles (Baltimore, USA)
Sounds in silence: how glial cells in the ear shape development of the auditory system

13:45–14:00 Closing remarks