

Poster Number	Abstract Number	Topic	Topic	Abstract Title	Authors	Affiliation
T01-001A	654	T01	Cell migration	Disrupted-In-Schizophrenia 1 controls microglial movement and phagocytosis	<b>S. Kessels</b> <sup>1</sup> , L. Berden <sup>1,2</sup> , Y. A. Alpizar <sup>1</sup> , J. Beeken <sup>1,3</sup> , C. Trippaers <sup>1,4</sup> , B. Rombaut <sup>1,5</sup> , K. Ishizuka <sup>6</sup> , L. Nguyen <sup>3</sup> , J. P. Antel <sup>9</sup> , L. M. Healy <sup>9</sup> , S. A. Cowley <sup>7</sup> , I. Dewachter <sup>1,8</sup> , J. M. Rigo <sup>1</sup> , T. Vanmierlo <sup>1,5</sup> , A. Sawa <sup>4</sup> , B. Brône <sup>1</sup>	<sup>1</sup> Hasselt University, BIOMED, Diepenbeek, Belgium <sup>2</sup> SCK CEN, Radiobiology Unit, Mol, Belgium <sup>3</sup> Université de Liège, GIGA Stem Cells, Liège, Belgium <sup>4</sup> Johns Hopkins University, Departments of Mental Health, Psychiatry, Neuroscience, Biomedical Engineering and Genetic Medicine, Baltimore, Maryland, United States of America <sup>5</sup> Maastricht University, Department Psychiatry and Neuropsychology, Maastricht, Netherlands <sup>6</sup> Johns Hopkins University, Department of Psychiatry, Baltimore, Maryland, United States of America <sup>7</sup> University of Oxford, James Martin Stem Cell Facility, Sir William Dunn School of Pathology, Oxford, United Kingdom <sup>8</sup> Catholic University of Louvain, Institute of Neuroscience, Leuven, Belgium <sup>9</sup> McGill University, Department of Neurology and Neurosurgery, Montreal,
T02-001A	52	T02	Cell proliferation, lineages and differentiation	A 4D mouse model of endogenous OPC expansion & its application in demyelinating disease(s)	<b>S. S. Salvi</b> <sup>1</sup> , M. Schulze-Steikow <sup>1</sup> , F. Calegari <sup>1</sup>	<sup>1</sup> Technical University Dresden, Center for Regenerative Therapies, Dresden, Saxony, Germany
T02-002A	88	T02	Cell proliferation, lineages and differentiation	Astrocytes derived from NG2 glia emerge solely following permanent brain ischemia	<b>D. Kirdajova</b> <sup>1,2</sup> , L. Valihrach <sup>3</sup> , M. Valny <sup>1</sup> , J. Kriska <sup>1</sup> , D. Krocianova <sup>1</sup> , S. Benesova <sup>3,5</sup> , P. Abaffy <sup>3</sup> , D. Zucha <sup>3,4</sup> , D. Kolenicova <sup>1,2</sup> , S. Camacho Garcia <sup>1</sup> , P. Honsa <sup>1</sup> , M. Kubista <sup>3</sup> , M. Anderova <sup>1,2</sup>	<sup>1</sup> Academy of Science, Institute of Experimental Medicine, Prague, Czech Republic <sup>2</sup> Charles University, 2nd Faculty of Medicine, Prague, Czech Republic <sup>3</sup> Academy of Science, Institute of Biotechnology, Prague, Czech Republic <sup>4</sup> Charles University, Faculty of Science, Prague, Czech Republic <sup>5</sup> University of Chemistry and Technology, Faculty of Chemical Technology, Prague, Czech Republic
T02-003A	89	T02	Cell proliferation, lineages and differentiation	Extensive transcriptional and chromatin changes underlie astrocyte maturation in vivo and in culture	<b>M. Latke</b> <sup>1</sup> , S. Boeing <sup>2</sup> , R. Goldstone <sup>3</sup> , N. Marichal Negrin <sup>4</sup> , J. Jurado Arjona <sup>4</sup> , B. Berninger <sup>4</sup> , F. Guillemot <sup>1</sup>	<sup>1</sup> The Francis Crick Institute, Neural Stem Cell Biology Laboratory, London, United Kingdom <sup>2</sup> The Francis Crick Institute, Bioinformatics & Biostatistics, London, United Kingdom <sup>3</sup> The Francis Crick Institute, Advanced Sequencing Facility, London, United Kingdom <sup>4</sup> King's College London, Institute of Psychiatry, Psychology & Neuroscience, Centre for Developmental Neurobiology, MRC Centre for Neurodevelopmental Disorders, London, United Kingdom
T02-004A	102	T02	Cell proliferation, lineages and differentiation	Oligodendrocyte progenitors sense time by creating distinct epigenetic landscapes	<b>D. K. Dansu</b> <sup>1,3</sup> , S. Sauma <sup>2,3</sup> , P. Casaccia <sup>1,2,3</sup>	<sup>1</sup> The Graduate Center, City University of New York, Graduate Program in Biochemistry, New York, New York, United States of America <sup>2</sup> The Graduate Center, City University of New York, Graduate Program in Biology, New York, New York, United States of America <sup>3</sup> Advanced Science Research Center, The Graduate Center of the City University of New York, Neuroscience Initiative, New York, New York, United States of America

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T02-005A	171	T02	Cell proliferation, lineages and differentiation	Nerve growth factor promotes differentiation and protection of oligodendrocyte precursor cells from oxygen-glucose deprivation.	<b>V. A. Baldassarro</b> <sup>1</sup> , M. Cescatti <sup>2</sup> , M. L. Rocco <sup>2</sup> , A. Flagelli <sup>1</sup> , L. Aloe <sup>2</sup> , L. Giardino <sup>2,3</sup> , L. Calzà <sup>1,4,5</sup>	<sup>1</sup> University of Bologna, Health Science and Technologies Interdepartmental Center for Industrial Research (HST-ICIR), Ozzano Emilia, Italy <sup>2</sup> IRET Foundation, Ozzano Emilia, Italy <sup>3</sup> University of Bologna, Department of Veterinary Medical Sciences, Ozzano Emilia, Italy <sup>4</sup> University of Bologna, Department of Pharmacy and Biotechnology, Bologna, Italy <sup>5</sup> Montecatone Rehabilitation Institute, Imola, Italy
T02-006A	175	T02	Cell proliferation, lineages and differentiation	Understanding the proliferative dynamics of microglia in the developing brain.	<b>L. Barry-Carroll</b> <sup>1</sup> , D. A. Menassa <sup>1</sup> , D. Gomez-Nicola <sup>1</sup>	<sup>1</sup> University of Southampton, Biological Sciences, Southampton, United Kingdom
T02-007A	199	T02	Cell proliferation, lineages and differentiation	The role of MHC-II in efficient OPC differentiation and remyelination	<b>J. A. White</b> <sup>1</sup> , A. Guzman de la Fuente <sup>1</sup> , A. Young <sup>1</sup> , R. Ingram <sup>1</sup> , Y. Dombrowski <sup>1</sup> , D. C. Fitzgerald <sup>1</sup>	<sup>1</sup> Queen's University Belfast, Wellcome-Wolfson Institute for Experimental Medicine, Belfast, United Kingdom
T02-008A	212	T02	Cell proliferation, lineages and differentiation	c-Jun N-terminal Kinase 1 (JNK1) modulates oligodendrocyte progenitor cell architecture, proliferation and myelination	<b>M. Lorenzati</b> <sup>1,2</sup> , E. Boda <sup>1,2</sup> , R. Parolisi <sup>1,2</sup> , M. Bonato <sup>2</sup> , T. Borsello <sup>3,4</sup> , T. Herdegen <sup>5</sup> , A. Vercelli <sup>1,2</sup> , A. Buffo <sup>1,2</sup>	<sup>1</sup> University of Turin, Department of Neuroscience Rita Levi Montalcini, Turin, Italy <sup>2</sup> Neuroscience Institute Cavalieri Ottolenghi, Orbassano, Italy <sup>3</sup> University of Milan, Department of Pharmacological and Biomolecular Sciences, Milan, Italy <sup>4</sup> Mario Negri Institute-IRCCS, Milan, Italy <sup>5</sup> University Hospital Schleswig-Holstein, Institute of Experimental and Clinical Pharmacology, Kiel, Germany
T02-009B	214	T02	Cell proliferation, lineages and differentiation	Analysis of the molecular and functional roles of cortistatin on the dynamics of oligodendrocyte generation and myelination	<b>E. Gonzalez-Rev</b> <sup>1</sup> , C. P. Falo <sup>1</sup> , J. Castillo-Gonzalez <sup>1</sup> , I. Forte-Lago <sup>1</sup> , M. Caro <sup>1</sup> , E. Andrés-León <sup>1</sup> , F. O'Valle <sup>2</sup>	<sup>1</sup> Institute of Parasitology and Biomedicine López-Neyra-IPBLN-CSIC, Cell Biology and Immunology, Granada, Spain <sup>2</sup> University of Granada, Medicine School, Granada, Spain
T02-010B	289	T02	Cell proliferation, lineages and differentiation	<i>Sibling Cell Relationships of cell Progeny of Single Subpallial Progenitor Cells Using the UbC-StarTrack</i>	<b>R. Sánchez-González</b> <sup>1</sup> , L. Lopez-Mascaraque <sup>1</sup>	<sup>1</sup> Cajal Institute, Madrid, Spain
T02-011B	304	T02	Cell proliferation, lineages and differentiation	Direct conversion of human fibroblasts to astrocytes	<b>E. Quist</b> <sup>1,2,3</sup> , N. Avaliani <sup>2,3</sup> , I. Canals <sup>1,2,3</sup> , H. Ahlenius <sup>1,2,3</sup>	<sup>1</sup> Lund University, Stem cells, aging and neurodegeneration group, Faculty of Medicine, Lund, Sweden <sup>2</sup> Lund University, Department of Clinical Sciences, Division of Neurology, Lund, Sweden <sup>3</sup> Lund University, Lund Stem Cell Center, Lund, Sweden
T02-012B	325	T02	Cell proliferation, lineages and differentiation	Coordinated activities between the Hedgehog and androgen signaling pathways during perinatal oligodendrogenesis	<b>A. Zahaf</b> <sup>1</sup> , A. Kassoussi <sup>1</sup> , Y. Laouarem <sup>1</sup> , E. Traiffort <sup>1</sup>	<sup>1</sup> INSERM-University Paris-Saclay, U1195, Le Kremlin-Bicêtre, France
T02-013B	390	T02	Cell proliferation, lineages and differentiation	Physical Activity heterogeneously modulates NG2-glia population behavior, and is necessary for cognitive enhancement	<b>J. T. Eugenin von Bernhardt</b> <sup>1</sup> , N. Unger <sup>1</sup> , I. Forné <sup>2</sup> , A. Imhof <sup>2</sup> , L. Dimou <sup>1</sup>	<sup>1</sup> Ulm University, Molecular and Translational Neuroscience, Ulm, Baden-Württemberg, Germany <sup>2</sup> Ludwig Maximilians University, Adolf-Butenandt Institute and Center for Integrated Protein Science, Planegg-Martinsried, Bavaria, Germany

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T02-014B	411	T02	Cell proliferation, lineages and differentiation	Inducing fast-spiking neurons from glia in the postnatal cerebral cortex	<b>N. Marichal</b> <sup>1</sup> , S. Péron <sup>1,2</sup> , A. Beltrán <sup>1</sup> , C. Galante <sup>2</sup> , B. Berninger <sup>1,2,3</sup>	<sup>1</sup> King's College London, Centre for Developmental Neurobiology, Institute of Psychiatry, Psychology & Neuroscience, London, United Kingdom <sup>2</sup> Johannes Gutenberg University, Institute of Physiological Chemistry, University Medical Center, Mainz, Rhineland-Palatinate, Germany <sup>3</sup> King's College London, MRC Centre for Neurodevelopmental Disorders, Institute of Psychiatry, Psychology & Neuroscience, London, United Kingdom
T02-015B	422	T02	Cell proliferation, lineages and differentiation	Reconstructing Enteric Nervous System lineages at single-cell resolution	<b>A. C. Laddach</b> <sup>1</sup> , S. H. Chng <sup>1</sup> , M. Shapiro <sup>1</sup> , F. Progzatky <sup>1</sup> , J. Kleinjung <sup>1</sup> , V. Pachnis <sup>1</sup> , R. Lasrado <sup>1</sup>	<sup>1</sup> Francis Crick Institute, Development and Homeostasis of the Nervous System Laboratory, London, United Kingdom
T02-016B	458	T02	Cell proliferation, lineages and differentiation	Ultrastructural diversity of human oligodendrocytes and its progenitors in the white matter.	<b>M. J. Ulloa-Navas</b> <sup>1</sup> , R. Morales-Galleí <sup>1</sup> , P. Pérez-Borredá <sup>1</sup> , L. I. Torrijos-Saiz <sup>1</sup> , M. Rius-Salvador <sup>1</sup> , V. Herranz-Pérez <sup>1,2</sup> , J. M. García-Verduño <sup>1</sup>	<sup>1</sup> University of Valencia-CIBERNED, Laboratory of Compared Neurobiology, Paterna, Spain <sup>2</sup> Universitat Jaume I, Predepartamental Unit of Medicine, Castelló de la Plana, Spain
T02-017C	465	T02	Cell proliferation, lineages and differentiation	The role of Aβ oligomers in the myelin regulatory factor MYRF regulation and oligodendrocyte differentiation	<b>U. Balantzategi</b> <sup>1</sup> , T. Quintela-López <sup>1</sup> , A. Gaminde-Blasco <sup>1</sup> , N. Hernández <sup>1</sup> , J. L. Zugaza <sup>1,2,3</sup> , C. Matute <sup>1</sup> , A. Ruiz <sup>1</sup> , E. Alberdi <sup>1</sup>	<sup>1</sup> University of the Basque Country (EHU/UPV), Achucarro Basque Center for Neuroscience, CIBERNED, Neuroscience, Leioa, Spain <sup>2</sup> University of the Basque Country (EHU/UPV), Genetics, Physical Anthropology and Animal Physiology, Leioa, Spain <sup>3</sup> IKERBASQUE Basque Foundation for Science, Bilbao, Spain
T02-018C	547	T02	Cell proliferation, lineages and differentiation	The Role and the Mechanism of Septin7 in Proliferation, Migration and Differentiation of Oligodendrocyte Precursor Cells	<b>C. Du</b> <sup>1</sup>	<sup>1</sup> Dalian Medical University, Dalian, China
T02-019C	595	T02	Cell proliferation, lineages and differentiation	Investigating the transcriptional changes underpinning enhanced oligodendrocyte maturation after exposure to microglia-derived vesicles	<b>S. Raffaele</b> <sup>1</sup> , M. Lombardi <sup>2</sup> , C. Verderio <sup>2</sup> , M. Fumagalli <sup>1</sup>	<sup>1</sup> Università degli Studi di Milano, Department of Pharmacological and Biomolecular Sciences, Milan, Italy <sup>2</sup> CNR, Institute of Neuroscience, U28 University Milano Bicocca, Veduggio al Lambro (MB), Italy
T02-020C	627	T02	Cell proliferation, lineages and differentiation	rejected by the author		
T02-021C	674	T02	Cell proliferation, lineages and differentiation	Effect of two Multiple sclerosis biomarkers, chitinase 3-like protein 1 and syndecan-1, on oligodendrocyte precursor cells proliferation, migration and differentiation	<b>L. du Trieu de Terdonck</b> <sup>1</sup> , R. Boitet <sup>1</sup> , P. Marin <sup>1</sup> , E. Thouvenot <sup>1,2</sup>	<sup>1</sup> Université de Montpellier, Institut de Génomique Fonctionnelle, Montpellier, France <sup>2</sup> CHU de Nîmes, Service de Neurologie, Nîmes, France

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T02-022C	737	T02	Cell proliferation, lineages and differentiation	Fast and efficient generation of oligodendrocytes from human induced pluripotent stem cells (hiPSCs)	<b>J. A. García León</b> <sup>5</sup> , L. Caceres Palomo <sup>4</sup> , J. C. Dávila Cansino <sup>1</sup> , J. Vitorica <sup>2</sup> , C. M. Verfaillie <sup>3</sup> , A. Gutiérrez <sup>6</sup>	<sup>1</sup> University of Malaga. IBIMA. CIBERNED, Department of Cell Biology, Genetics and Physiology, Malaga, Spain <sup>2</sup> University of Seville. IBIS-University Hospital Virgen del Rocío/CSIC/University of Seville. CIBERNED, Department of Biochemistry and Molecular Biology, Seville, Spain <sup>3</sup> Stem Cell Institute, KU Leuven, Department of Development and Regeneration, Stem Cell Biology and Embryology, Leuven, Belgium <sup>4</sup> First author. University of Malaga. IBIMA. CIBERNED, Department of Cell Biology, Genetics and Physiology, Malaga, Spain <sup>5</sup> Corresponding author. First author. University of Malaga. IBIMA. CIBERNED, Department of Cell Biology, Genetics and Physiology, Malaga, Spain <sup>6</sup> Corresponding author. University of Malaga. IBIMA. CIBERNED, Department of Cell Biology, Genetics and Physiology, Malaga, Spain
T02-023C	778	T02	Cell proliferation, lineages and differentiation	Characterization of the molecular mechanisms of Tns3 function in oligodendroglia	<b>E. Merour</b> <sup>1</sup> , H. Hmidan <sup>2</sup> , C. Marie <sup>1</sup> , M. Frah <sup>1</sup> , S. H. Lo <sup>3</sup> , C. Parras <sup>1</sup>	<sup>1</sup> Institut du Cerveau et de la Moelle épinière, ICM, Inserm U 1127, CNRS UMR 7225, Sorbonne Université, F-75013, Paris, France <sup>2</sup> Institut Curie, Paris, France <sup>3</sup> University of California-Davis, Department of Biochemistry and Molecular Medicine, Sacramento, California, United States of America
T02-024C	779	T02	Cell proliferation, lineages and differentiation	Transcription regulation of gliogenesis: a play between transcription factors and chromatin remodelers	<b>C. Marie</b> <sup>1</sup> , M. Pigache <sup>1</sup> , H. Liu <sup>2</sup> , C. Parras <sup>1</sup>	<sup>1</sup> Institut du Cerveau/CNRS UMR 7225/INSERM U 1127/Sorbonne Université, Hassan Team, Paris, France <sup>2</sup> DKFZ-ZMBH Alliance, Division of Molecular Neurogenetics, Heidelberg, Germany
T02-025D	786	T02	Cell proliferation, lineages and differentiation	Pharmacogenomic identification of key genes and small bioactive molecules promoting oligodendrogenesis in the model of neonatal brain injury	<b>J. B. Hure</b> <sup>1</sup> , C. Marie <sup>1</sup> , B. Hassan <sup>1,3,5</sup> , F. Gueyffier <sup>4</sup> , O. Raineteau <sup>2</sup> , C. Parras <sup>1</sup>	<sup>1</sup> Institut du Cerveau, ICM, Sorbonne Universités, UPMC Univ Paris 06, Inserm U1127, CNRS UMR 7225, Paris, France <sup>2</sup> Inserm, Stem Cell and Brain Research Institute, U1208, Bron, France <sup>3</sup> VIB, VIB Center for the Biology of Disease, Leuven, Belgium <sup>4</sup> Claude Bernard University, UMR5558 Laboratoire de Biométrie et Biologie Evolutive, CNRS, Villeurbanne, France <sup>5</sup> University of Leuven, Center for Human Genetics, School of Medicine, Leuven, Belgium
T02-026D	789	T02	Cell proliferation, lineages and differentiation	CB <sub>1</sub> receptors deficiency in oligodendrocyte precursors disrupts postnatal oligodendrogenesis and causes hypomyelination in mice	A. Sánchez de la Torre <sup>1,2,3</sup> , T. Aguado <sup>1,2,3</sup> , A. Huerga-Gómez <sup>1,2,3</sup> , J. C. Chara <sup>4,5</sup> , K. Monory <sup>6</sup> , C. Matute <sup>4,5</sup> , B. Lutz <sup>6</sup> , S. Mato <sup>4,5</sup> , M. Guzmán <sup>1,2,3</sup> , I. Galve-Roperh <sup>1,2,3</sup> , <b>J. Palazuelos</b> <sup>1,2,3</sup>	<sup>1</sup> Instituto Ramón y Cajal de Investigación Sanitaria (IRYCIS), Complutense University of Madrid, Biochemistry and molecular biology, Madrid, Spain <sup>2</sup> Instituto Universitario de Investigación Neuroquímica (IUIN), Madrid, Spain <sup>3</sup> Centro de Investigación Biomédica en Red sobre Enfermedades Neurodegenerativas (CIBERNED), Madrid, Spain <sup>4</sup> University of the Basque Country UPV/EHU, Neurosciences, Leioa, Spain <sup>5</sup> Achucarro Basque Center for Neuroscience, Leioa, Spain <sup>6</sup> University Medical Center Mainz, Institute of Physiological Chemistry and Pathobiochemistry, Mainz, Germany
T02-027D	801	T02	Cell proliferation, lineages and differentiation	Stability of lineage-specific attributes in senescent human peripheral glia	<b>P. V. Monje</b> <sup>1</sup> , N. Andersen <sup>2</sup> , D. Sant <sup>2</sup> , K. Peng <sup>1</sup> , G. Wang <sup>2</sup> , X. - M. Xu <sup>1</sup>	<sup>1</sup> Indiana University School of Medicine, Department of Neurological Surgery, Indianapolis, Indiana, United States of America <sup>2</sup> University of Miami, Department of Human Genetics, Miami, Florida, United States of America
T02-028D	855	T02	Cell proliferation, lineages and differentiation	Pro-inflammatory IL-1 $\beta$ signalling regulates oligodendrocyte progenitor cells and microglia <i>in vitro</i> and <i>in vivo</i>	<b>S. Kuhn</b> <sup>1</sup> , M. Dittmer <sup>1</sup> , A. Guzman de la Fuente <sup>1</sup> , V. Asuzu <sup>1</sup> , D. Fitzgerald <sup>1</sup> , Y. Dombrowski <sup>1</sup>	<sup>1</sup> Queen's University Belfast, Centre for experimental medicine, Belfast, United Kingdom

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T02-029D	864	T02	Cell proliferation, lineages and differentiation	C21orf91's role in oligodendroglial precursor cell differentiation and CNS myelination: a potential role for Down syndrome neuropathology	<b>L. Reiche</b> <sup>1</sup> , P. Göttle <sup>1</sup> , L. Lane <sup>2,3</sup> , P. Duek <sup>2,3</sup> , M. Park <sup>1</sup> , K. Azim <sup>1</sup> , J. Schütte <sup>1</sup> , A. Manousi <sup>1</sup> , J. Schira-Heinen <sup>1</sup> , P. Küry <sup>1</sup>	<sup>1</sup> Heinrich-Heine-University, Department of Neurology, Medical Faculty, Düsseldorf, Germany <sup>2</sup> University of Geneva, CALIPHO group, SIB Swiss Institute of Bioinformatics, Geneva 4, Switzerland <sup>3</sup> University of Geneva, Department of Microbiology and Molecular Medicine, Faculty of Medicine, Geneva 4, Switzerland
T02-030D	877	T02	Cell proliferation, lineages and differentiation	Rebound effects of NCX3 pharmacological inhibition in oligodendrocytes	<b>M. Cammarota</b> <sup>1</sup> , V. de Rosa <sup>1</sup> , A. Pannaccione <sup>1</sup> , A. Secondo <sup>1</sup> , V. Tedeschi <sup>1</sup> , I. Piccialli <sup>1</sup> , L. Annunziato <sup>1</sup> , F. Boscia <sup>1</sup>	<sup>1</sup> "Federico II" University of Naples, Division of Pharmacology, Department of Neuroscience, Reproductive, and Odontostomatological Sciences, School of Medicine, Naples, Italy
T02-031D	878	T02	Cell proliferation, lineages and differentiation	Genetic approach to study the role of Sonic Hedgehog in physiological CNS myelination and remyelination.	<b>S. Nocera</b> <sup>1</sup> , M. Merchan-Fernandez <sup>1</sup> , R. Lujan <sup>2</sup> , F. de Castro <sup>1</sup>	<sup>1</sup> CSIC-INSTITUTO CAJAL, Madrid, Spain <sup>2</sup> UCLM, Albacete, Spain
T03-001A	4	T03	Cell signalling	Probing the localization of the endoplasmic reticulum in the gliapil and its effect on astrocytic calcium signals	<b>A. Denizot</b> <sup>1</sup> , C. Cali <sup>2</sup> , H. Berry <sup>3,4</sup> , E. De Schutter <sup>1</sup>	<sup>1</sup> Okinawa Institute of Science and Technology, Computational Neuroscience Unit, Onna-son, Japan <sup>2</sup> University of Turin, Department of Neuroscience, Neuroscience Institute Cavalieri Ottolenghi, Turin, Italy <sup>3</sup> INRIA, F-69603, Villeurbanne, France <sup>4</sup> Univ Lyon, IIRIS, UMR5205 CNRS, F-69621, Villeurbanne, France
T03-002A	59	T03	Cell signalling	Cholesterol-induced calcium oscillation inhibits cellular death and supports lipid droplet formation in astrocytes	<b>C. Adachi</b> <sup>1</sup> , T. Inoue <sup>1</sup>	<sup>1</sup> Waseda university, Life sci. & med. biosci., Tokyo, Japan
T03-003A	86	T03	Cell signalling	Neural S1P-lyase deficiency causes astrogliosis and affects energy metabolism	<b>S. Alam</b> <sup>1</sup> , D. N. Mitroi <sup>1,2</sup> , G. V. Echten-Deckert <sup>1</sup>	<sup>1</sup> University of Bonn, LIMES, Bonn, North Rhine-Westphalia, Germany <sup>2</sup> University of Bonn, Department of Neurology, Los Angeles, California, United States of America
T03-004A	172	T03	Cell signalling	Noradrenergic cAMP signaling in astrocytes of the murine olfactory bulb	<b>J. Sauer</b> <sup>1</sup> , A. Beiersdorfer <sup>1</sup> , T. Fischer <sup>1</sup> , C. Gee <sup>2</sup> , C. Lohr <sup>1</sup>	<sup>1</sup> University of Hamburg, Division of Neurophysiology, Hamburg, Hamburg, Germany <sup>2</sup> ZMNH, Institute of Synaptic Physiology, Hamburg, Hamburg, Germany
T03-005A	181	T03	Cell signalling	Mechanotransduction in retinal glia	<b>D. Krizaj</b> <sup>1</sup> , S. N. Redmon <sup>1</sup> , C. Rudzitis <sup>1</sup> , O. Yarishkin <sup>1</sup> , M. Lakk <sup>1</sup>	<sup>1</sup> University of Utah, Ophthalmology & Visual Sciences, Salt Lake City, Utah, United States of America
T03-006B	245	T03	Cell signalling	mTORC1 signaling regulates activity of Na <sup>+</sup> /bicarbonate cotransporter 1, NBCe1, in mouse cortical astrocytes through phosphorylation of Ser <sup>245</sup>	<b>M. Giannaki</b> <sup>1</sup> , S. Heermann <sup>1</sup> , E. Roussa <sup>1</sup>	<sup>1</sup> Albert-Ludwigs-University Freiburg, Department of Molecular Embryology, Institute of Anatomy and Cell Biology, Freiburg, Baden-Württemberg, Germany
T03-007B	281	T03	Cell signalling	Microglial identity and inflammatory responses are controlled by the combined effects of neurons and astrocytes	<b>J. Qiu</b> <sup>1</sup> , P. Baxter <sup>1</sup> , O. Dando <sup>1</sup> , K. Emelianova <sup>1</sup> , X. He <sup>1</sup> , S. McKay <sup>1</sup> , G. Hardingham <sup>1</sup>	<sup>1</sup> University of Edinburgh, Edinburgh, United Kingdom

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T03-008B	282	T03	Cell signalling	A role for astrocytes in the visual cortex critical period	<b>R. Breton</b> <sup>1,2,3</sup> , J. Ribot <sup>1</sup> , C. - F. Calvo <sup>1</sup> , J. Moulard <sup>1,7</sup> , P. Ezan <sup>1</sup> , J. Zapata <sup>1</sup> , K. Samama <sup>1</sup> , M. Moreau <sup>4</sup> , A. - P. Bemelmans <sup>5</sup> , V. Sabatet <sup>6</sup> , F. Dingli <sup>6</sup> , D. Leow <sup>6</sup> , C. Milleret <sup>1</sup> , P. Billuart <sup>4</sup> , G. Dallérac <sup>1</sup> , N. Rouach <sup>1</sup>	<sup>1</sup> Neuroglial Interactions in Cerebral Physiology, Center for Interdisciplinary Research in Biology, Collège de France, CNRS UMR 7241, INSERM U1050, Labex Memolife, PSL Research University, Paris, France <sup>2</sup> Doctoral School N°568, Paris Saclay University, PSL Research University, Le Kremlin Bicetre, France <sup>3</sup> Astrocytes & Cognition, Paris-Saclay Institute for Neurosciences, CNRS UMR 9197, Paris Saclay University, Orsay, France <sup>4</sup> Université de Paris, Institute of Psychiatry and Neuroscience of Paris (IPNP), INSERM U1266, Genetic and Development of Cerebral Cortex Laboratory, GHU Paris Psychiatrie et Neurosciences, Hôpital Saint Anne, Paris, France <sup>5</sup> Commissariat à l'Energie Atomique et aux Energies Alternatives (CEA), Département de la Recherche Fondamentale, Institut de biologie François Jacob, MIRCen, and CNRS UMR 9199, Université Paris-Saclay, Neurodegenerative Diseases Laboratory, Fontenay-aux-Roses, France <sup>6</sup> Mass Spectrometry and Proteomics Laboratory, Institut Curie, PSL Research University, Paris, France <sup>7</sup> Doctoral School N°158, Sorbonne University, Paris, France
T03-009B	438	T03	Cell signalling	Morphology determines the calcium dynamics in astrocytes	<b>K. Lenk</b> <sup>1,2</sup> , A. Tervonen <sup>2</sup> , J. Hyttinen <sup>2</sup>	<sup>1</sup> Graz University of Technology, Institute of Neural Engineering, Graz, Austria <sup>2</sup> Tampere University, Faculty of Medicine and Health Technology, BioMediTech, Tampere, Finland
T03-010B	469	T03	Cell signalling	Angiotensin II AT <sub>1</sub> -cannabinoid CB <sub>1</sub> receptor heteromer implication in Parkinson's disease	<b>M. Casanovas</b> <sup>1,5</sup> , A. Lillo <sup>2</sup> , J. Lillo <sup>1,5</sup> , R. Rivas-Santisteban <sup>1,5</sup> , A. Muñoz <sup>3,5</sup> , A. I. Rodríguez-Pérez <sup>3,5</sup> , J. B. Rebassa <sup>1</sup> , J. S. Contestí <sup>1</sup> , J. L. Labandeira-Garcia <sup>3,5</sup> , G. Navarro <sup>2,5</sup> , R. Franco <sup>4,5</sup>	<sup>1</sup> Department of Biochemistry and Molecular Biomedicine, Biology School, University of Barcelona, Barcelona, Spain <sup>2</sup> Department of Biochemistry and Physiology, Faculty of Pharmacy, University of Barcelona, Barcelona, Spain <sup>3</sup> Laboratory of Cellular and Molecular Neurobiology of Parkinson's disease, Research Center for Molecular Medicine and Chronic Diseases (CIMUS), Department of Morphological Sciences, IDIS, University of Santiago de Compostela, Santiago de Compostela, Spain <sup>4</sup> Chemistry School, University of Barcelona, Barcelona, Spain <sup>5</sup> Centro de Investigación Biomédica en Red Enfermedades Neurodegenerativas (CiberNed), Instituto de Salud Carlos III, Madrid, Spain
T03-011C	561	T03	Cell signalling	Kidins220/ARMS mediates astrocyte developmental switch in BDNF sensitivity, calcium signaling and neuron-astrocyte communication	<b>M. Albini</b> <sup>1,2</sup> , F. Jaudon <sup>3</sup> , M. Chiacchiaretta <sup>1,6</sup> , S. Ferroni <sup>4</sup> , F. Benfenati <sup>1,5</sup> , F. Cesca <sup>1,3</sup>	<sup>1</sup> Istituto Italiano di Tecnologia, Centre for Synaptic Neuroscience and Technology, Genova, Italy <sup>2</sup> University of Genova, Department of Experimental Medicine, Genova, Italy <sup>3</sup> University of Trieste, Department of Life Sciences, Trieste, Italy <sup>4</sup> University of Bologna, Department of Pharmacy and Biotechnology, Bologna, Italy <sup>5</sup> IRCCS Ospedale Policlinico San Martino, Genova, Italy <sup>6</sup> Tufts University School of Medicine, Department of Neuroscience, Boston, Massachusetts, United States of America
T03-012C	575	T03	Cell signalling	Vitamin K enhances functional modification of the pro-myelinating factor Gas6 in mouse brain glial cells	<b>N. Aydin</b> <sup>1</sup> , S. Hafizi <sup>1</sup>	<sup>1</sup> University of Portsmouth, School of Pharmacy and Biomedical Sciences, Portsmouth, United Kingdom

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T03-013C	591	T03	Cell signalling	GPR17 expression is regulated by Wnt pathway through ID2 up-regulation during oligodendrocyte precursor cells differentiation	<b>M. Boccazzi</b> <sup>1,2</sup> , G. Macchiarulo <sup>1</sup> , S. Lebon <sup>1</sup> , T. Le charpentier <sup>1</sup> , V. Faivre <sup>1</sup> , D. Marangon <sup>3</sup> , D. Lecca <sup>3</sup> , M. Fumagalli <sup>2</sup> , S. Mani <sup>1,4</sup> , M. P. Abbraccio <sup>3</sup> , P. Gressens <sup>1</sup> , A. - L. Schang <sup>5</sup> , J. Van Steenwinckel <sup>1</sup>	<sup>1</sup> Université de Paris, Inserm UMR 1141/NeuroDiderot, Paris, France <sup>2</sup> Università degli Studi di Milano, Department of Pharmacological and Biomolecular Sciences, Milan, Italy <sup>3</sup> Università degli Studi di Milano, Department of Pharmaceutical Sciences, Milan, Italy <sup>4</sup> Curadev Pharma Pvt. Ltd, Noida, Uttar Pradesh, India <sup>5</sup> Université de Paris, Inserm UMR 1153/Centre de recherche en Epidémiologie et Statistiques (CRESS), Equipe HEPa, Paris, France
T03-014C	606	T03	Cell signalling	Molecular-physiological properties of ER calcium dynamics and calcium oscillations in cultured astrocytes	<b>A. Schulte</b> <sup>1</sup> , L. Bieniussa <sup>1</sup> , S. Samtleben <sup>1</sup> , T. Bischler <sup>2</sup> , K. Doering <sup>2</sup> , P. Sodmann <sup>3</sup> , H. Ritter <sup>4</sup> , R. Blum <sup>1</sup>	<sup>1</sup> University Hospital of Würzburg, Institute of Clinical Neurobiology, Würzburg, Germany <sup>2</sup> University of Würzburg, Core Unit Systems Medicine, Würzburg, Germany <sup>3</sup> University Hospital of Würzburg, Department of Internal Medicine I, Würzburg, Germany <sup>4</sup> University Hospital of Würzburg, Department of Anaesthesiology, Würzburg, Germany
T03-015C	717	T03	Cell signalling	Optogenetic activation of RAF pathway promotes astrocytogenesis in a timepoint-dependent manner	<b>Y. Su</b> <sup>1</sup> , K. Zhang <sup>2</sup> , C. Yi <sup>1</sup>	<sup>1</sup> The Seventh Affiliated Hospital, Sun Yat-sen University, Research Center, Shenzhen, China <sup>2</sup> University of Illinois at Urbana-Champaign, Department of Biochemistry, School of Molecular and Cellular Biology, Urbana, Illinois, United States of America
T03-016D	773	T03	Cell signalling	Deciphering spatio-temporal Ca <sup>2+</sup> activity in astrocytes changes using multi-threshold event detection (MTED)	<b>A. Zeug</b> <sup>1</sup> , F. E. Müller <sup>1</sup> , C. Henneberger <sup>2</sup> , E. G. Ponimaskin <sup>1</sup>	<sup>1</sup> Hannover Medical School, Cellular Neurophysiology, Hannover, Lower Saxony, Germany <sup>2</sup> University of Bonn, Institute of Cellular Neurosciences, Medical Faculty, Bonn, North Rhine-Westphalia, Germany
T03-017D	781	T03	Cell signalling	Deciphering the role of mitochondria-ER contacts in reactive astrocytes	<b>M. Cepero Malo</b> <sup>1</sup> , J. Göbel <sup>1</sup> , H. Jahn <sup>1</sup> , E. Schilasky <sup>1</sup> , E. Motori <sup>1</sup> , M. Jevtic <sup>1</sup> , M. Bergami <sup>1</sup>	<sup>1</sup> University of Cologne, CECAD, Cologne, North Rhine-Westphalia, Germany
T03-018D	805	T03	Cell signalling	Astrocyte mitochondrial structure and dynamics in physiological and pathological conditions	<b>F. Bodaleo</b> <sup>1</sup> , K. Alhalaseh <sup>1</sup> , I. Coban <sup>1</sup> , E. D'Este <sup>2</sup> , A. Ravenhorst <sup>1</sup> , A. Steyer <sup>3</sup> , W. Möbius <sup>3</sup> , S. Hell <sup>2</sup> , A. Agarwal <sup>1</sup>	<sup>1</sup> Heidelberg University, Anatomy Department, Heidelberg, Baden-Württemberg, Germany <sup>2</sup> Max Planck Institute for Medical Research, Heidelberg, Baden-Württemberg, Germany <sup>3</sup> Max Planck Institute for Experimental Medicine, Göttingen, Lower Saxony, Germany
T03-019D	820	T03	Cell signalling	A Sox10 multi-spectral allele for analyzing intracellular Ca <sup>2+</sup> signaling in enteric glia	<b>J. A. Avila</b> <sup>1</sup> , M. Southard-Smith <sup>2</sup>	<sup>1</sup> Vanderbilt University, Brain Institute, Nashville, Tennessee, United States of America <sup>2</sup> Vanderbilt University, Human Genetics, Nashville, Tennessee, United States of America
T03-020D	829	T03	Cell signalling	Do astrocytes carry on reaction-diffusion computation in the brain?	<b>A. R. Brazhe</b> <sup>1,2</sup> , P. A. Denisov <sup>3,2</sup> , A. V. Semyanov <sup>2,1</sup>	<sup>1</sup> Lomonosov Moscow State University, Faculty of Biology, Moscow, Russian Federation <sup>2</sup> Shemyakin-Ovchinnikov Institute of Bioorganic Chemistry RAS, Department of Molecular Neurobiology, Moscow, Russian Federation <sup>3</sup> Lobachevskiy Nizhny Novgorod University, Faculty of Biology, Nizhny Novgorod, Russian Federation
T04-001D	384	T04	Cytoskeleton	Injury induced Drebrin controls astrogliosis and scar formation by regulating tubular endosomes and adhesion responses	<b>J. Schiweck</b> <sup>1</sup> , K. Murk <sup>1</sup> , M. Ornaghi <sup>1</sup> , J. Ledderose <sup>1</sup> , A. Münster-Wandowski <sup>2</sup> , I. Vida <sup>2</sup> , B. Eickholt <sup>1,3</sup>	<sup>1</sup> Charité Universitätsmedizin, Institute of Biochemistry, Berlin, Germany <sup>2</sup> Charité Universitätsmedizin, Institute of Anatomy, Berlin, Germany <sup>3</sup> Charité Universitätsmedizin, NeuroCure, Cluster of Excellence, Berlin, Germany

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T04-002D	603	T04	Cytoskeleton	A trend of evolution: expansion of GFAP free brain areas, and its appearance in Primates	<b>M. Kalman</b> <sup>1</sup> , I. Adorján <sup>1</sup>	<sup>1</sup> Semmelweis University, Dept. of Anatomy, Histology and Embryology, Budapest, Hungary
T04-003D	684	T04	Cytoskeleton	GFAP regulates mitochondrial distribution and function in astrocytes	<b>D. Xiong</b> <sup>1</sup> , P. J. Kang <sup>1</sup> , L. Kong <sup>2</sup> , S. - C. Zhang <sup>1,2</sup>	<sup>1</sup> Duke-NUS medical school, National University of Singapore, Singapore <sup>2</sup> Waisman Center, University of Wisconsin, Madison, Wisconsin, United States of America
T04-004D	752	T04	Cytoskeleton	WAVE1 and N-WASP in axon ensheathment and myelin formation	<b>Y. Jiang</b> <sup>1</sup> , M. Swire <sup>1</sup> , W. Richardson <sup>1</sup>	<sup>1</sup> University College London, Wolfson Institute for Biomedical Research, London, United Kingdom
T04-005D	824	T04	Cytoskeleton	PAK1 regulates oligodendrocyte membrane formation and myelination	<b>L. Baudouin</b> <sup>1</sup> , N. Adès <sup>1</sup> , K. Kanté <sup>1</sup> , C. Bachelin <sup>1</sup> , K. Duarte <sup>2</sup> , S. Guyon <sup>2</sup> , J. - V. Barnier <sup>2</sup> , B. Nait Oumesmar <sup>1</sup> , L. Bouslama-Ouechliani <sup>1</sup>	<sup>1</sup> Paris Brain Institute (ICM), Inserm U1127 – Sorbonne Université - CNRS UMR 7225, Paris, France <sup>2</sup> Institut Neuro-PSI, CNRS Université Paris-Saclay, UMR9197, Gif-Sur-Yvette, France
T05-001A	1	T05	Degenerative disease, toxicity and neuroprotection	Short term administration of graphitic carbon nitride impairs cognitive function and exacerbates the levels of astrocytes activation in hippocampus	<b>M. Ghasemi-Kasman</b> <sup>1</sup> , F. Ramezani <sup>2</sup> , F. Feizi <sup>1</sup> , N. Nosrati <sup>2</sup>	<sup>1</sup> Babol University of Medical Sciences, Cellular and Molecular Biology Research Center, Health Research Institute, Babol, Iran (Islamic Republic of) <sup>2</sup> Babol University of Medical Sciences, Student Research Committee, Babol, Iran (Islamic Republic of)
T05-002A	7	T05	Degenerative disease, toxicity and neuroprotection	Synapse Loss in Progressive Supranuclear Palsy and Corticobasal Degeneration and the Role of Astrocytic Tau	<b>N. Briel</b> <sup>1,2,3</sup> , K. Pratsch <sup>1,2</sup> , S. Röber <sup>2</sup> , T. Arzberger <sup>1,2,4</sup> , J. Herms <sup>1,2,5</sup>	<sup>1</sup> German Center for Neurodegenerative Diseases (DZNE) e.V., Translational Brain Research, Munich, Bavaria, Germany <sup>2</sup> University Hospital Munich, Ludwig–Maximilians–University, Center for Neuropathology and Prion Research, Munich, Bavaria, Germany <sup>3</sup> Ludwig–Maximilians–University, Munich Medical Research School, Faculty of Medicine, Munich, Bavaria, Germany <sup>4</sup> University Hospital Munich, Ludwig–Maximilians–University, Department of Psychiatry and Psychotherapy, Munich, Bavaria, Germany <sup>5</sup> Ludwig–Maximilians–University, Munich Cluster of Systems Neurology (SyNeuro), Munich, Bavaria, Germany
T05-003A	12	T05	Degenerative disease, toxicity and neuroprotection	Can manipulation of neuroinflammation modulate oligodendrogenesis and white matter repair after TBI?	<b>R. Ved</b> <sup>1</sup> , F. Sharouf <sup>1</sup> , B. Harari <sup>1</sup> , M. Muzzafar <sup>1</sup> , S. Manivannan <sup>1</sup> , C. Ormonde <sup>1</sup> , W. Gray <sup>1</sup> , M. Zaben <sup>1</sup>	<sup>1</sup> Cardiff University, BRAIN Unit, Cardiff, United Kingdom



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T05-004A	36	T05	Degenerative disease, toxicity and neuroprotection	Conservation and divergence of vulnerability and responses to stressors between human and mouse astrocytes	<b>J. Li</b> <sup>1</sup> , L. Pan <sup>1</sup> , W. G. Pembroke <sup>2</sup> , J. E. Rexach <sup>2</sup> , M. I. Godoy <sup>1</sup> , M. C. Condro <sup>1</sup> , A. G. Alvarado <sup>1</sup> , M. Harteni <sup>1</sup> , Y. - W. Chen <sup>3</sup> , L. Stiles <sup>4</sup> , A. Y. Chen <sup>5</sup> , I. B. Wanner <sup>1, 6</sup> , X. Yang <sup>3, 7, 12</sup> , S. A. Goldman <sup>8, 9</sup> , D. H. Geschwind <sup>1, 2, 10</sup> , H. I. Kornblum <sup>1, 6, 11</sup> , Y. Zhang <sup>1, 6, 12</sup>	<sup>1</sup> UCLA, Department of Psychiatry and Biobehavioral Sciences, Semel Institute for Neuroscience and Human Behavior, David Geffen School of Medicine, Los Angeles, California, United States of America <sup>2</sup> UCLA, Department of Neurology, David Geffen School of Medicine, Los Angeles, California, United States of America <sup>3</sup> UCLA, Department of Integrative Biology and Physiology, Los Angeles, California, United States of America <sup>4</sup> UCLA, Department of Endocrinology, David Geffen School of Medicine, Los Angeles, California, United States of America <sup>5</sup> UCLA, Department of Obstetrics and Gynecology, Los Angeles, California, United States of America <sup>6</sup> UCLA, Intellectual and Developmental Disabilities Research Center, Los Angeles, California, United States of America <sup>7</sup> UCLA, Institute for Quantitative and Computational Biosciences, Los Angeles, California, United States of America <sup>8</sup> University of Rochester Medical Center, Center for Translational Neuromedicine and Department of Neurology, Rochester, New York, United States of America <sup>9</sup> University of Copenhagen Faculty of Health and Medical Sciences, Center for Translational Neuromedicine, Copenhagen, Denmark <sup>10</sup> UCLA, Department of Human Genetics, David Geffen School of Medicine, Los Angeles, California, United States of America <sup>11</sup> UCLA, Department of Pediatrics, David Geffen School of Medicine, Los Angeles, California, United States of America <sup>12</sup> UCLA, Brain Research Institute, Los Angeles, California, United States of America
T05-005A	64	T05	Degenerative disease, toxicity and neuroprotection	The use of arundic acid as novel therapy for multiple sclerosis	<b>F. Michetti</b> <sup>1</sup> , C. Camponeschi <sup>2</sup> , S. Amadio <sup>3</sup> , B. Sampaiolese <sup>4</sup> , M. E. Clementi <sup>4</sup> , M. Tredicine <sup>2</sup> , C. Volonté <sup>3, 5</sup> , P. Casalbore <sup>5</sup> , R. Di Liddo <sup>6, 7</sup> , V. Romano Spica <sup>8</sup> , P. P. Parnigotto <sup>6</sup> , F. Ria <sup>2</sup> , G. Di Sante <sup>2</sup>	<sup>1</sup> Università Cattolica S. Cuore, Dept Neuroscience, Rome, Italy <sup>2</sup> Università Cattolica del Sacro Cuore, Department of Translational Medicine and Surgery, Section of General Pathology, Rome, Italy <sup>3</sup> IRCCS Santa Lucia Foundation, Cellular Neurobiology Unit, Rome, Italy <sup>4</sup> SCITEC-CNR, Istituto di Scienze e Tecnologie Chimiche, Rome, Italy <sup>5</sup> IASI_CNR, Institute for Systems Analysis and Computer Science, Rome, Italy <sup>6</sup> Foundation for Biology and Regenerative Medicine, Tissue Engineering and Signaling ONLUS, Padua, Italy <sup>7</sup> University of Padua, Department of Pharmaceutical and Pharmacological Sciences, Padua, Italy <sup>8</sup> University of Rome, Department of Public Health, Rome, Italy

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T05-006A	81	T05	Degenerative disease, toxicity and neuroprotection	Alexander disease modeling in zebrafish as an in vivo system suitable to perform drug screening	S. Candiani <sup>1</sup> , S. Carestati <sup>1</sup> , A. Mack <sup>3</sup> , D. Bani <sup>4</sup> , M. Bozzo <sup>1</sup> , V. Obino <sup>1</sup> , M. Ori <sup>5,6</sup> , F. Rosamilia <sup>1</sup> , M. De Sarlo <sup>5</sup> , M. Pestarino <sup>1</sup> , I. Ceccherini <sup>2</sup> , <b>T. Bachetti</b> <sup>1,2</sup>	<sup>1</sup> University of Genoa, Department of Earth, Environment and Life Sciences (DISTAV), Genoa, Italy <sup>2</sup> IRCCS Giannina Gaslini, UOSD Laboratorio di Genetica e Genomica delle malattie Rare, Genoa, Italy <sup>3</sup> Universitaet Tuebingen, Institut für klinische Anatomie und Zellanalytik, Tuebingen, Germany <sup>4</sup> University of Florence, Department of Clinical and Experimental Medicine, Florence, Italy <sup>5</sup> University of Pisa, Department of Biology, Pisa, Italy <sup>6</sup> Inter-University Center for the Promotion of the 3Rs Principles in Teaching & Research (CICPR), Department of Pathology, University of Pisa, Pisa, Italy
T05-007A	87	T05	Degenerative disease, toxicity and neuroprotection	Early changes in cortical glia in SOD1 <sup>G93A</sup> mouse	<b>T. Filipi</b> <sup>1,2</sup> , O. Vanatko <sup>1,2</sup> , J. Tureckova <sup>1</sup> , L. Valihrach <sup>3</sup> , M. Kubista <sup>3</sup> , M. Anderova <sup>1,2</sup>	<sup>1</sup> Czech Academy of Sciences, Department of Cellular Neurophysiology/Institute of experimental medicine, Prague, Czech Republic <sup>2</sup> Charles University, 2nd Faculty of Medicine/Department of Neuroscience, Prague, Czech Republic <sup>3</sup> Czech Academy of Sciences, Institute of Biotechnology/Laboratory of gene expression, Prague, Czech Republic
T05-008A	108	T05	Degenerative disease, toxicity and neuroprotection	Reactive astrocytes acquire deleterious and neuroprotective signatures in response to tauopathy.	<b>Z. Jiwaji</b> <sup>1,2</sup> , S. Tiwari <sup>1,3</sup> , M. Hooley <sup>1,2</sup> , D. Hampton <sup>1,3</sup> , M. Torvell <sup>1,3,4</sup> , J. McQueen <sup>1,2</sup> , P. Baxter <sup>1,2</sup> , J. Qiu <sup>1,2</sup> , D. Story <sup>1,3</sup> , P. Kind <sup>5</sup> , O. Dando <sup>1,2,5</sup> , X. He <sup>1,2,5</sup> , T. Spires-Jones <sup>1,2</sup> , S. Chandran <sup>1,3</sup> , G. Hardingham <sup>1,2</sup>	<sup>1</sup> UK Dementia Research Institute at Edinburgh University, University of Edinburgh, Edinburgh, United Kingdom <sup>2</sup> Centre for Discovery Brain Sciences, University of Edinburgh, Edinburgh, United Kingdom <sup>3</sup> Centre for Clinical Brain Sciences, University of Edinburgh, Edinburgh, United Kingdom <sup>4</sup> UK Dementia Research Institute at Cardiff University, University of Cardiff, Cardiff, United Kingdom <sup>5</sup> Simons Initiative for the Developing Brain, University of Edinburgh, Edinburgh, United Kingdom
T05-009A	149	T05	Degenerative disease, toxicity and neuroprotection	Basic astrocytic functions such as ion uptake and volume regulation are impaired in the triple transgenic model of the Alzheimer's disease	<b>J. Tureckova</b> <sup>1</sup> , M. Kamenicka <sup>1,2</sup> , D. Kolenicova <sup>1,2</sup> , T. Filipi <sup>1,2</sup> , Z. Hermanova <sup>1,2</sup> , J. Kriska <sup>1</sup> , L. Valihrach <sup>3</sup> , L. Vargova <sup>1,2</sup> , M. Anderova <sup>1,2</sup>	<sup>1</sup> Czech Academy of Sciences, Institute of Experimental Medicine, Prague, Czech Republic <sup>2</sup> Charles University, 2nd Faculty of Medicine, Prague, Czech Republic <sup>3</sup> Czech Academy of Sciences, Institute of Biotechnology, Vestec, Czech Republic
T05-010A	188	T05	Degenerative disease, toxicity and neuroprotection	Endogenous expression of HERV-W envelope protein leads to impaired glial functions in a mouse model of multiple sclerosis	<b>J. Gruchot</b> <sup>1</sup> , B. Charvet <sup>2</sup> , M. Silva <sup>1</sup> , M. Dietrich <sup>1</sup> , P. Albrecht <sup>1</sup> , H. Perron <sup>2</sup> , P. Küry <sup>1</sup>	<sup>1</sup> Heinrich-Heine-University, Department of Neurology, Düsseldorf, Germany <sup>2</sup> GeNeuro, Geneva, Switzerland
T05-011A	195	T05	Degenerative disease, toxicity and neuroprotection	Fibroblast growth factor 9 (FGF9) mediates neurodegeneration in the adult nervous system.	<b>K. Thuemmler</b> <sup>1</sup> , C. Wrozs <sup>2</sup> , J. Franz <sup>2</sup> , D. McElroy <sup>1</sup> , J. Cole <sup>1</sup> , L. Hayden <sup>1</sup> , D. Arseni <sup>1</sup> , F. Schwarz <sup>2</sup> , J. Edgar <sup>1</sup> , A. Neef <sup>3</sup> , F. Wolf <sup>3</sup> , C. Stadelmann <sup>2</sup> , C. Linington <sup>1</sup>	<sup>1</sup> University of Glasgow, 1 Institute of Infection, Immunity and Inflammation, Glasgow, United Kingdom <sup>2</sup> University Medical Centre Goettingen, Institute for Neuropathology, Goettingen, Germany <sup>3</sup> Max Planck Institute for Experimental Medicine, Goettingen, Germany
T05-012A	196	T05	Degenerative disease, toxicity and neuroprotection	Astrocyte-specific alterations upon aging and Alzheimer's disease.	<b>M. Ivanova</b> <sup>1</sup> , I. Juhoven <sup>1</sup> , C. Andrés <sup>1</sup> , R. Lampinen <sup>1</sup> , I. Belaya <sup>1</sup> , S. Chew <sup>1</sup> , K. M. Kanninen <sup>1</sup>	<sup>1</sup> University of Eastern Finland, A.I. Virtanen Institute for Molecular Sciences, Kuopio, Finland

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<b>T05-013A</b>	<b>219</b>	T05	Degenerative disease, toxicity and neuroprotection	EphB3 and Deleted in Colorectal Cancer (DCC) dependence receptors contribute to oligodendrocyte cell death after brain injury	<b>M. Diaz</b> <sup>1</sup> , Y. Tsenkina <sup>1</sup> , S. Tapanes <sup>1</sup> , D. Arizanova <sup>1</sup> , M. Cepero <sup>1</sup> , D. Liebi <sup>1</sup>	<sup>1</sup> University of Miami Miller School of Medicine, The Miami Project to Cure Paralysis, Miami, Florida, United States of America
<b>T05-014A</b>	<b>262</b>	T05	Degenerative disease, toxicity and neuroprotection	Dangerous Air: How Air Pollution Affects Astrocyte Functions.	<b>L. Saveleva</b> <sup>1</sup> , M. Zucchelli <sup>1</sup> , V. Górová <sup>1</sup> , S. Chew <sup>1</sup> , T. Malm <sup>1</sup> , P. I. Jalava <sup>2</sup> , K. M. Kanninen <sup>1</sup>	<sup>1</sup> University of Eastern Finland, A.I.Virtanen Institute for Molecular Sciences, Kuopio, Finland <sup>2</sup> University of Eastern Finland, Inhalation Toxicology Laboratory, Department of Environmental and Biological Sciences, Kuopio, Finland
<b>T05-015B</b>	<b>273</b>	T05	Degenerative disease, toxicity and neuroprotection	The contribution of glia to the onset of Alzheimer's Disease	<b>M. Kater</b> <sup>1</sup> , M. Verheijen <sup>1</sup> , G. Smit <sup>1</sup>	<sup>1</sup> Vrije Universiteit Amsterdam, Department of Molecular and Cellular Neurobiology, Amsterdam, Netherlands
<b>T05-016B</b>	<b>279</b>	T05	Degenerative disease, toxicity and neuroprotection	Loss of SARM1 does not protect against axonal degeneration in a late-onset CMT1B mouse model.	<b>G. Shackleford</b> <sup>1,2</sup> , L. N. Marziali <sup>2</sup> , E. Wilson <sup>2</sup> , G. Della-Flora Nunes <sup>2</sup> , R. Baldi <sup>1</sup> , L. Wrabetz <sup>2</sup> , M. - L. Feltri <sup>2</sup> , M. D'Antonio <sup>1</sup>	<sup>1</sup> San Raffaele Scientific Institute, Genetics and Cell Biology, Milano, Italy <sup>2</sup> State University of New York at Buffalo, Hunter James Kelly Research Institute, Buffalo, New York, United States of America
<b>T05-017B</b>	<b>288</b>	T05	Degenerative disease, toxicity and neuroprotection	The potential role of the neuroinflammatory response in Purkinje cell damage: a prion disease as natural model of neurodegenerative diseases	<b>M. Monzón</b> <sup>1,2</sup> , I. M. Guijarro <sup>1</sup> , M. Garcés <sup>1</sup> , M. Kurtz <sup>2</sup> , J. J. Badiola <sup>1</sup>	<sup>1</sup> University of Zaragoza, Research Centre for Encephalopathies and Transmissible Emerging Diseases, Zaragoza, Spain <sup>2</sup> University of Zaragoza, Human Anatomy and Histology, Zaragoza, Spain
<b>T05-018B</b>	<b>291</b>	T05	Degenerative disease, toxicity and neuroprotection	Hemin-mediated oxidative damage in the central nervous system selectively targets myelinated axons	<b>K. Baldacchino</b> <sup>1</sup> , C. Scharler <sup>2</sup> , J. M. Edgar <sup>1</sup> , C. Lington <sup>1</sup> , K. Thümmel <sup>1</sup>	<sup>1</sup> University of Glasgow, Institute of Infection, Immunity and Inflammation, Glasgow, United Kingdom <sup>2</sup> Paracelsus Medical University Salzburg, Experimental and Clinical Cell Therapy, Salzburg, Austria
<b>T05-019B</b>	<b>298</b>	T05	Degenerative disease, toxicity and neuroprotection	Reactive astrocytes acquire beneficial anti-aggregation properties through the JAK2-STAT3 pathway in Huntington's disease	<b>M. - A. Carrillo-de Sauvage</b> <sup>1</sup> , L. Abjean <sup>1</sup> , M. Riquelme-Pérez <sup>1</sup> , L. Ben Haim <sup>1</sup> , P. Gipchtein <sup>1</sup> , F. Petit <sup>1</sup> , A. - S. Hérard <sup>1</sup> , M. Guillemier <sup>1</sup> , M. Gaudin <sup>1</sup> , S. Bernier <sup>1</sup> , C. Joséphine <sup>1</sup> , G. Bonvento <sup>1</sup> , N. Dufour <sup>1</sup> , A. Bémelmans <sup>1</sup> , E. Brouillet <sup>1</sup> , P. Hantraye <sup>1</sup> , C. Escartin <sup>1</sup>	<sup>1</sup> Université Paris-Saclay, CEA, CNRS, MIRCen, Laboratoire des Maladies Neurodégénératives, Fontenay-aux-Roses, France
<b>T05-020B</b>	<b>313</b>	T05	Degenerative disease, toxicity and neuroprotection	Crosstalk between human iPSC-derived astrocytes and neurons in a cell culture model of Alzheimer's disease	<b>E. Konstantinidis</b> <sup>1</sup> , C. Beretta <sup>1</sup> , A. Falk <sup>2</sup> , A. Erlandsson <sup>1</sup>	<sup>1</sup> Uppsala University, Department of Public Health and Caring Sciences, Molecular Geriatrics, Uppsala, Sweden <sup>2</sup> Karolinska Institute, Department of Neuroscience, Stockholm, Sweden

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T05-021B	327	T05	Degenerative disease, toxicity and neuroprotection	Selective vulnerability of inhibitory networks in multiple sclerosis	<b>L. Zoupi</b> <sup>1</sup> , S. Booker <sup>2, 6, 7</sup> , D. Eigel <sup>3</sup> , C. Werner <sup>3</sup> , P. Kind <sup>2, 6, 7</sup> , T. Spiers-Jones <sup>2, 4</sup> , B. Newland <sup>3, 5</sup> , A. Williams <sup>1</sup>	<sup>1</sup> University of Edinburgh, Centre for Regenerative Medicine, Institute for Regeneration and Repair, Edinburgh, United Kingdom <sup>2</sup> University of Edinburgh, Centre for Discovery Brain Sciences, Edinburgh, United Kingdom <sup>3</sup> Leibniz-Institut Für Polymerforschung Dresden E.V, Max Bergmann Center of Biomaterials Dresden, Dresden, Germany <sup>4</sup> University of Edinburgh, UK Dementia Research Institute, Edinburgh, United Kingdom <sup>5</sup> Cardiff University, School of Pharmacy and Pharmaceutical Sciences, Cardiff, United Kingdom <sup>6</sup> University of Edinburgh, Simons Initiative for the Developing Brain, Edinburgh, United Kingdom <sup>7</sup> University of Edinburgh, Patrick Wild Centre for Autism Research, Edinburgh,
T05-022B	371	T05	Degenerative disease, toxicity and neuroprotection	Manipulations of GSH content modulate [Ca <sup>2+</sup> ] <sub>i</sub> homeostasis in rat astroglioma cells	<b>N. Mokrane</b> <sup>1</sup> , T. Cens <sup>1</sup> , P. Charnet <sup>1</sup> , C. Ménard <sup>1</sup> , J. Guiramand <sup>1</sup> , M. Rousset <sup>1</sup> , C. Cohen-Solal <sup>1</sup> , J. Roussel <sup>1</sup> , M. Vignes <sup>1</sup>	<sup>1</sup> Université de Montpellier, Institut des Biomolécules Max Mousseron, Montpellier, France
T05-023B	389	T05	Degenerative disease, toxicity and neuroprotection	ALS reactive astrocytes impair neuromuscular junctions in microfluidic devices	<b>K. S. Dittlau</b> <sup>1, 2</sup> , E. Krasnow <sup>1, 2</sup> , L. Fumagalli <sup>1, 2</sup> , T. Vandoorne <sup>1, 2</sup> , L. Terrie <sup>3</sup> , P. Baatsen <sup>4, 5</sup> , A. Kerstens <sup>4, 5</sup> , G. Giacomazzi <sup>6</sup> , B. Pavie <sup>4, 5</sup> , M. Meyer <sup>7</sup> , M. Sampaolesi <sup>6</sup> , P. Van Damme <sup>1, 2, 8</sup> , P. Hyttel <sup>9</sup> , L. Thorrez <sup>3</sup> , K. Freude <sup>9</sup> , L. Van Den Bosch <sup>1, 2</sup>	<sup>1</sup> KU Leuven – University of Leuven, Department of Neurosciences, Experimental Neurology, Leuven, Belgium <sup>2</sup> VIB Center for Brain & Disease Research, Laboratory of Neurobiology, Leuven, Belgium <sup>3</sup> KU Leuven – University of Leuven, Department of Development and Regeneration, Campus Kulak, Kortrijk, Belgium <sup>4</sup> KU Leuven – University of Leuven, Bio Imaging Core, Leuven, Belgium <sup>5</sup> VIB Center for Brain & Disease Research, Research Group Molecular Neurobiology, Leuven, Belgium <sup>6</sup> KU Leuven – University of Leuven, Department of Development and Regeneration, Stem Cell and Developmental Biology, Leuven, Belgium <sup>7</sup> University of Southern Denmark, Department of Neurobiology Research, Institute of Molecular Medicine, Odense, Denmark <sup>8</sup> University Hospitals Leuven, Department of Neurology, Leuven, Belgium <sup>9</sup> University of Copenhagen, Department of Veterinary and Animal Sciences,
T05-024B	391	T05	Degenerative disease, toxicity and neuroprotection	Understanding the nature of astrocyte reactivity in acute perinatal white matter injury and role in disease pathogenesis	<b>P. Renz</b> <sup>1, 2, 3</sup> , V. Haesler <sup>1, 2</sup> , V. Tscherrig <sup>1, 2, 3</sup> , S. Liddelow <sup>4</sup> , D. Surbek <sup>1, 2</sup> , A. Schoeberlein <sup>1, 2</sup> , A. Brosius-Lutz <sup>1, 2</sup>	<sup>1</sup> Bern University Hospital, Department of Obstetrics and Feto-maternal Medicine, Inselspital, Bern, Bern, Switzerland <sup>2</sup> University of Bern, Department for Biomedical Research (DBMR), Bern, Bern, Switzerland <sup>3</sup> University of Bern, Graduate School for Cellular and Biomedical Sciences (GCB), Bern, Bern, Switzerland <sup>4</sup> New York University, Neuroscience Institute, Department of Neuroscience and Physiology, New York City, New York, United States of America
T05-025B	398	T05	Degenerative disease, toxicity and neuroprotection	The microRNAs involved in oligodendrocyte differentiation: implication for multiple sclerosis	<b>L. D'auria</b> <sup>1</sup> , O. Perdaens <sup>1</sup> , P. Pauss <sup>1</sup> , A. da Silva Pereira <sup>1</sup> , V. van Pesch <sup>1</sup>	<sup>1</sup> Catholic University of Louvain, Neurochemistry group-CEMO department-Institute of Neuroscience, Bruxelles, Belgium

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T05-026B	401	T05	Degenerative disease, toxicity and neuroprotection	Human iPSC-derived astrocytes transplanted into the mouse brain display differential responses to amyloid- $\beta$	<b>A. Arranz</b> <sup>1,2,4</sup> , P. Preman <sup>3,4</sup> , J. Tcw <sup>5,6</sup> , S. Calafate <sup>3,4</sup> , A. Snellinx <sup>3,4</sup> , M. Alfonso-Triguero <sup>1</sup> , N. Corthout <sup>3,4,7</sup> , S. Munck <sup>3,4,7</sup> , D. R. Thal <sup>8</sup> , A. Goate <sup>5,6,9</sup> , B. De Strooper <sup>3,4,10</sup>	<sup>1</sup> Achucarro Basque Center for Neuroscience, Leioa, Spain <sup>2</sup> Ikerbasque Basque Foundation for Science, Bilbao, Spain <sup>3</sup> VIB Center for Brain & Disease Research, Leuven, Belgium <sup>4</sup> Laboratory for the Research of Neurodegenerative Diseases, Department of Neurosciences, Leuven Brain Institute (LBI), KU Leuven (University of Leuven), Leuven, Belgium <sup>5</sup> Department of Neuroscience & Friedman Brain Institute, Icahn School of Medicine at Mount Sinai, NY, United States of America <sup>6</sup> Ronald M. Loeb Center for Alzheimer's disease, Icahn School of Medicine at Mount Sinai, NY, United States of America <sup>7</sup> VIB Bio Imaging Core, Campus Gasthuisberg, Leuven, Belgium <sup>8</sup> Laboratory for Neuropathology, Department of Imaging and Pathology, Leuven Brain Institute (LBI), KU Leuven (University of Leuven); and Department of Pathology, University Hospital Leuven, Leuven, Belgium <sup>9</sup> Department of Genetics and Genomic Sciences, Icahn Institute of Genomics and Multiscale Biology, Icahn School of Medicine at Mount Sinai, NY, United States of America <sup>10</sup> UK Dementia Research Institute, University College London, London, United Kingdom
T05-027B	404	T05	Degenerative disease, toxicity and neuroprotection	Retinal changes in the APP <sup>NL-F/NL-F</sup> mouse model: a SD-OCT study from 6 months to 20 months of age.	<b>E. Salobar-García</b> <sup>1,2,3</sup> , L. Sánchez-Puebla <sup>1</sup> , I. López-Cuenca <sup>1</sup> , J. A. Fernández-Albarral <sup>1</sup> , P. Rojas <sup>1,4</sup> , R. de Hoz <sup>1,2,3</sup> , A. I. Ramírez <sup>1,2</sup> , J. J. Salazar <sup>1,2,3</sup> , I. Bravo-Ferrer <sup>6,5</sup> , V. Medina <sup>7</sup> , M. A. Moro <sup>7</sup> , T. C. Saïdo <sup>8</sup> , T. Saito <sup>9</sup> , J. M. Ramirez <sup>1,10,3</sup>	<sup>1</sup> Complutense University of Madrid, Instituto de Investigaciones Oftalmológicas Ramón Castroviejo, Madrid, Spain <sup>2</sup> Complutense University of Madrid, Facultad de Óptica y Optometría. Departamento de Inmunología, Oftalmología y ORL, Madrid, Spain <sup>3</sup> OFTARED-ISCI, Madrid, Spain <sup>4</sup> Hospital General Universitario Gregorio Marañón, Instituto Oftálmico de Madrid, Madrid, Spain <sup>5</sup> Complutense University of Madrid, Department of Pharmacology and Toxicology, Faculty of Medicine, Madrid, Spain <sup>6</sup> University of Edinburgh, UK Dementia Research Institute, Edinburgh Medical School, Edinburgh, United Kingdom <sup>7</sup> Carlos III Health Institute, Spanish National Cardiovascular Research Centre, Madrid, Spain <sup>8</sup> RIKEN, Laboratory for Proteolytic Neuroscience, Brain Science Institute, Saitama, Japan <sup>9</sup> Nagoya City University, Department of Neurocognitive Science, Institute of Brain Science, Nagoya, Japan <sup>10</sup> Complutense University of Madrid, Facultad de Medicina. Departamento de
T05-028B	427	T05	Degenerative disease, toxicity and neuroprotection	Mild aging phenotype of microglia, astrocytes and neurons in CD1 mice	<b>M. J. Pietrowski</b> <sup>1</sup> , K. Wittich <sup>1</sup> , S. Kozlov <sup>1</sup> , A. Halle <sup>1,2</sup>	<sup>1</sup> Helmholtz Association, German Center for Neurodegenerative Diseases (DZNE), Bonn, Germany <sup>2</sup> University of Bonn, Institute of Neuropathology, Bonn, Germany
T05-029C	436	T05	Degenerative disease, toxicity and neuroprotection	The partial deletion of mGluR5 affects the pro- and anti-inflammatory and bioenergetic characteristics of microglia during ALS progression in SOD1 <sup>G93A</sup> mice	<b>M. Balbi</b> <sup>1</sup> , T. Bonifacino <sup>1</sup> , S. Ravera <sup>2</sup> , M. Milanese <sup>1,3</sup> , G. Bonanno <sup>1,3</sup>	<sup>1</sup> University of Genoa, Department of Pharmacy- Pharmacology and Toxicology section, Genoa, Italy <sup>2</sup> University of Genoa, Department of Experimental Medicine - Unit of Human Anatomy, Genoa, Italy <sup>3</sup> IRCCS San Martino Polyclinic Hospital, Genoa, Italy

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T05-030C	453	T05	Degenerative disease, toxicity and neuroprotection	Aberrant expression of the axon guidance cue netrin-1 by SOD1-ALS astrocytes contributes to motor neuron degeneration.	<b>K. Krishnamurthy</b> <sup>1,2</sup> , S. Markandaiah <sup>1,2</sup> , M. Cicardi <sup>1,2</sup> , B. Ghosh <sup>2</sup> , X. Wen <sup>1,2</sup> , K. McAvoy <sup>1,2</sup> , L. Cheng <sup>2</sup> , H. Kawamata <sup>3</sup> , A. Taga <sup>4</sup> , J. Richard <sup>4</sup> , N. Maragakis <sup>4</sup> , G. Manfredi <sup>3</sup> , A. Lepore <sup>2</sup> , P. Pasinelli <sup>1,2</sup> , D. Trotti <sup>1,2</sup>	<sup>1</sup> Thomas Jefferson University, Jefferson Weinberg ALS Center, Philadelphia, Pennsylvania, United States of America <sup>2</sup> Thomas Jefferson University, Vickie and Farber Institute, Philadelphia, Pennsylvania, United States of America <sup>3</sup> Weill Cornell Medical College, Brain and Mind Research Institute, New York, New York, United States of America <sup>4</sup> Johns Hopkins University, Department of Neurology, Baltimore, Maryland, United States of America
T05-031C	456	T05	Degenerative disease, toxicity and neuroprotection	Using human iPSC-derived neurons and astrocytes to decipher synapse-related phenotypes in familial Parkinson's disease	<b>G. Kouroupi</b> <sup>1</sup> , F. Papastefanaki <sup>1</sup> , E. Akrioti <sup>1</sup> , I. Kloukina <sup>2</sup> , E. Taoufik <sup>1</sup> , R. Matsas <sup>1</sup>	<sup>1</sup> Hellenic Pasteur Institute, Laboratory of Cellular and Molecular Neurobiology-Stem Cells, Arhens, Greece <sup>2</sup> Biomedical Research Foundation, Academy of Athens, Center of Basic Research, Athens, Greece
T05-032C	481	T05	Degenerative disease, toxicity and neuroprotection	Galectin-3 deletion reduces acute colitis-induced pro-inflammatory microglial activation in the ventral mensecephalon	<b>R. M. de Pablos</b> <sup>1,2</sup> , A. M. Espinosa-Oliva <sup>1,2</sup> , P. García-Miranda <sup>1</sup> , A. E. Carvajal-Vázquez <sup>1</sup> , M. A. Roca-Ceballos <sup>1</sup> , M. D. Vázquez-Carretero <sup>1</sup> , M. Santiago <sup>1,2</sup> , M. J. Peral <sup>1</sup> , J. L. Venero <sup>1,2</sup>	<sup>1</sup> University of Sevilla, Biochemistry and Molecular Biology, Sevilla, Spain <sup>2</sup> Instituto de Biomedicina de Sevilla, Envejecimiento Neuronal, SEVILLA, Spain
T05-033C	482	T05	Degenerative disease, toxicity and neuroprotection	CD300f immune receptor inhibition induce exacerbation of penetrating cortical injury	<b>D. Ali</b> <sup>1,2</sup> , N. Vitureira <sup>2</sup> , H. Peluffo <sup>1,2</sup>	<sup>1</sup> Institut Pasteur de Montevideo, Montevideo, Uruguay <sup>2</sup> Universidad de la República, Facultad de Medicina, Montevideo, Uruguay
T05-034C	487	T05	Degenerative disease, toxicity and neuroprotection	Impaired SVCT2 intracellular trafficking contributes to redox imbalance in Huntington's disease.	<b>G. A. Mayorca Weber</b> <sup>1</sup> , A. Covarrubias-Pinto <sup>1</sup> , A. V. Parra <sup>1</sup> , E. Papic <sup>1</sup> , I. Vicencio <sup>1</sup> , P. Ehrenfeld <sup>2,3</sup> , F. J. Rivera <sup>2,3,4</sup> , M. A. Castro <sup>1,2,5</sup>	<sup>1</sup> Universidad Austral de Chile, Institute of biochemistry and microbiology, Valdivia, Chile <sup>2</sup> Universidad Austral de Chile, Center for Interdisciplinary Studies on the Nervous System (CISNe), Valdivia, Chile <sup>3</sup> Universidad Austral de Chile, Institute of anatomy, histology and pathology, Valdivia, Chile <sup>4</sup> Paracelsus Medical University, Institute of molecular regenerative medicine, Salzburg, Austria <sup>5</sup> Leukocyte Research Center, UMMC, Auburn, United States of America
T05-035C	500	T05	Degenerative disease, toxicity and neuroprotection	Leukocyte infiltration: a driver of reactive gliosis?	<b>F. M. Conedera</b> <sup>1,2</sup> , C. Alt <sup>1</sup> , C. Lin <sup>1</sup> , V. Enzmann <sup>2</sup>	<sup>1</sup> Massachusetts General Hospital and Harvard Medical School, Wellman Center for Photomedicine and Center for Systems Biology, Boston, Massachusetts, United States of America <sup>2</sup> Inselspital, Ophthalmology, Bern, Switzerland
T05-036C	501	T05	Degenerative disease, toxicity and neuroprotection	Investigating the role of microglia in cortical synaptic pathology in multiple sclerosis	<b>F. Tsouki</b> <sup>1</sup> , V. Miron <sup>2</sup> , A. Williams <sup>1</sup>	<sup>1</sup> University of Edinburgh, Centre for Regenerative Medicine, Institute for Regeneration and Repair, Edinburgh, United Kingdom <sup>2</sup> University of Edinburgh, Medical Research Council Centre for Reproductive Health, The Queen's Medical Research Institute, Edinburgh, United Kingdom
T05-037C	515	T05		rejected by the author		
T05-038C	536	T05	Degenerative disease, toxicity and neuroprotection	Replacement of microglia by brain-engrafted macrophages provide long term protection against brain irradiation and concussive injury	<b>X. Feng</b> <sup>1,2</sup> , E. Frias <sup>1,2</sup> , M. Paladini <sup>1,2</sup> , D. Chen <sup>1</sup> , Z. Boosalis <sup>3</sup> , M. Becker <sup>1</sup> , S. Gupta <sup>1</sup> , S. Liu <sup>2</sup> , N. Gupta <sup>2</sup> , S. Rosi <sup>1,2</sup>	<sup>1</sup> University of California, San Francisco, Physical Therapy and Rehabilitation Science, San Francisco, California, United States of America <sup>2</sup> University of California, San Francisco, Neurological Surgery, San Francisco, California, United States of America <sup>3</sup> University of California, Berkeley, Berkeley, California, United States of America

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T05-039C	548	T05	Degenerative disease, toxicity and neuroprotection	Tubulin beta 4A mutations result in demyelination and neurodegeneration in mouse and human iPSC models	<b>A. A. Almad</b> <sup>1</sup>	<sup>1</sup> Children's Hospital of Philadelphia, Neurology, Philadelphia, Pennsylvania, United States of America
T05-040C	558	T05	Degenerative disease, toxicity and neuroprotection	Post-traumatic brain lesion in a pediatric murine model of injury	<b>A. Jacquens</b> <sup>1</sup> , Z. Csaba <sup>1</sup> , H. Soleimanzad <sup>2</sup> , C. Bokobza <sup>1</sup> , Y. Van de Looij <sup>3</sup> , P. - R. Delmotte <sup>1</sup> , P. Young Ten <sup>1</sup> , L. Schwendimann <sup>1</sup> , V. Faivre <sup>1</sup> , P. Dournaud <sup>1</sup> , M. Tanter <sup>2</sup> , J. Van Steenwinckel <sup>1</sup> , V. Degos <sup>1</sup> , P. Gressens <sup>1</sup>	<sup>1</sup> INSERM U1141, PARIS, France <sup>2</sup> INSERM U1273, PARIS, France <sup>3</sup> Haute école de santé de Genève, GENEVE, Genève, Switzerland
T05-041C	560	T05	Degenerative disease, toxicity and neuroprotection	Effects of the GPR17 antagonist montelukast on oligodendrocyte dysfunction and disease outcome in the SOD1G93A mouse model of ALS	T. Bonifacino <sup>1</sup> , S. Raffaele <sup>2</sup> , N. Nguyen <sup>1</sup> , M. Milanese <sup>1</sup> , G. Bonanno <sup>1</sup> , M. P. Abbracchio <sup>3</sup> , <b>M. Fumagalli</b> <sup>2</sup>	<sup>1</sup> Università degli Studi di Genova, Department of Pharmacy, Genoa, Italy <sup>2</sup> Università degli Studi di Milano, Department of Pharmacological and Biomolecular Sciences, Milan, Italy <sup>3</sup> Università degli Studi di Milano, Department of Pharmaceutical Sciences, Milan, Italy
T05-042C	588	T05	Degenerative disease, toxicity and neuroprotection	MCSF prevents Aβ-induced synaptic dysfunction by modifying microglial reactive state	<b>J. Zuazo Ibarra</b> <sup>1</sup> , C. Luchena <sup>1</sup> , F. Soria <sup>1</sup> , E. Alberdi <sup>1</sup> , C. Matute <sup>1</sup> , E. Capetillo Zarate <sup>1,2,3</sup>	<sup>1</sup> University of Basque country; Achucarro basque center for neuroscience; CIBERNED, Faculty of medicine and nursing, Leioa, Spain <sup>2</sup> IKERBASQUE, Bilbao, Spain <sup>3</sup> Well Cornell Medical College, Department of Biochemistry, New York, United States of America
T05-043D	610	T05	Degenerative disease, toxicity and neuroprotection	Cholesterol metabolism, inflammatory response and amyloid-β42 uptake are differentially regulated in isogenic APOE iPSC-astrocytes	<b>S. de Leeuw</b> <sup>1,2</sup> , A. Kirschner <sup>1</sup> , R. M. Nitsch <sup>1,2</sup> , C. Tackenberg <sup>1,2</sup>	<sup>1</sup> University of Zürich, Institute for Regenerative Medicine, Schlieren, Zürich, Switzerland <sup>2</sup> Neuroscience Center Zürich, Zürich, Zürich, Switzerland
T05-044D	628	T05	Degenerative disease, toxicity and neuroprotection	Relative contribution of parenchymal and amyloid plaques associated microglia to Alzheimer Disease progression	<b>H. E. Hirbec</b> <sup>1</sup> , A. - L. Hemonnot-Girard <sup>1</sup> , C. Meersseman <sup>1</sup> , N. Linck <sup>1</sup> , C. Rey <sup>2</sup> , J. Lachuer <sup>2</sup> , M. Pastore <sup>3</sup> , C. Reynes <sup>3</sup> , F. Rassendren <sup>1</sup>	<sup>1</sup> IGF, Univ. Montpellier, Montpellier, France <sup>2</sup> Profilexpert, Univ. Claude Bernard Lyon, Lyon, France <sup>3</sup> StatABio, UMS Biocampus, Montpellier, France
T05-045D	638	T05	Degenerative disease, toxicity and neuroprotection	Induced microglia from mononuclear cells as <i>in vitro</i> platforms to study inflammatory responses in Alzheimer's patients	<b>C. P. Gonul</b> <sup>1,2</sup> , C. Kiser <sup>1,2</sup> , D. Oz <sup>3,4</sup> , D. Hunerli Gunduz <sup>3</sup> , D. Yerlikaya <sup>3</sup> , G. Yener <sup>2,4</sup> , S. Genc <sup>1,2,3</sup>	<sup>1</sup> Dokuz Eylul University, Izmir Biomedicine and Genome Institute, Izmir, Turkey <sup>2</sup> Izmir Biomedicine and Genome Center, Izmir, Turkey <sup>3</sup> Dokuz Eylul University, Institute of Health Sciences, Department of Neuroscience, Izmir, Turkey <sup>4</sup> Dokuz Eylul University, Institute of Health Sciences, Department of Neurology, Izmir, Turkey
T05-046D	660	T05	Degenerative disease, toxicity and neuroprotection	Impact of mixed proteinopathies on microglia phenotypes across hippocampal subfields in Alzheimer's Disease and Dementia with Lewy Bodies patients	<b>S. Fixemer</b> <sup>1,2</sup> , C. Ameli <sup>1</sup> , G. Hammer <sup>2,3</sup> , L. Salamanca <sup>4</sup> , N. Mechawar <sup>5</sup> , A. Skupin <sup>1</sup> , M. Mittelbronn <sup>1,2,3</sup> , D. S. Bouvier <sup>1,2,3</sup>	<sup>1</sup> University of Luxembourg, Luxembourg Centre for Systems Biomedicine, Belval, Luxembourg <sup>2</sup> Luxembourg Centre for Neuropathology, Dudelange, Luxembourg <sup>3</sup> Laboratoire National de Santé, National Center of Pathology, Dudelange, Luxembourg <sup>4</sup> Swiss Data Science Data, ETH Zürich, Zürich, Zürich, Switzerland <sup>5</sup> Douglas Mental Health University Institute, Department of Psychiatry, Montreal, Québec, Canada
T05-047D	668	T05	Degenerative disease, toxicity and neuroprotection	Glial dysregulation and SVZ neurogenesis disruption following brain chemical lesion	<b>I. Thanou</b> <sup>1</sup> , P. N. Koutsoudaki <sup>2</sup> , D. Thomaidou <sup>1</sup>	<sup>1</sup> Hellenic Pasteur Institute, Department of Neurobiology, Athens, Greece <sup>2</sup> National and Kapodistrian University of Athens, Medical School/Laboratory of Histology-Embryology, Athens, Greece

Poster Number	Abstract Number	Topic	Topic	Abstract Title	Authors	Affiliation
T05-048D	671	T05	Degenerative disease, toxicity and neuroprotection	Reactomics of the multimodal regulation of astrocytic GLT1 expression by $\beta$ -amyloids	G. Bonifazi <sup>1,2</sup> , A. Tondre <sup>3</sup> , C. Luchena <sup>2,4,5</sup> , A. Gaminde-Blasco <sup>2,4,5</sup> , E. Capetillo-Zarate <sup>2,4,5</sup> , C. Matute <sup>2,4,5</sup> , C. Ortiz-Sanz <sup>2,4,5</sup> , E. Alberdi <sup>2,4,5</sup> , <b>M. De Pitta</b> <sup>1,6</sup>	<sup>1</sup> Basque Center for Applied Mathematics, Bilbao, Spain <sup>2</sup> University of The Basque Country (UPV/EHU), Department of Neurosciences, Leioa, Spain <sup>3</sup> University of Paris, Department of Fundamental and Biomedical Sciences, Paris, France <sup>4</sup> Centro de Investigación Biomédica en Red en Enfermedades Neurodegenerativas (CIBERNED), Leioa, Spain <sup>5</sup> Achucarro Basque Center for Neuroscience, Leioa, Spain <sup>6</sup> <del>Basque Center for Applied Mathematics, Bilbao, Spain</del>
T05-049D	673	T05	Degenerative disease, toxicity and neuroprotection	Mild Microglial Responses in the Cortex and Perivascular Macrophage Infiltration in Subcortical White Matter in Dogs with Age-Related Dementia Modelling Early Alzheimer's Disease	<b>C. Madsen</b> <sup>1</sup> , B. B. Thomsen <sup>2</sup> , K. T. Krohn <sup>1</sup> , C. Thygesen <sup>1</sup> , T. Schütt <sup>2</sup> , A. Metaxas <sup>1</sup> , J. S. Agerholm <sup>2</sup> , M. Wirenfeldt <sup>3</sup> , M. Berendt <sup>2</sup> , B. Finsen <sup>1</sup>	<sup>1</sup> University of Southern Denmark, Department of Molecular Medicine, Neurobiological research, Odense C, Denmark <sup>2</sup> University of Copenhagen, Department of Veterinary Clinical Sciences, Faculty of Health and Medical Sciences, Frederiksberg C, Denmark <sup>3</sup> Odense University Hospital, Department of Pathology, Institute of Clinical Science, Odense C, Denmark
T05-050D	690	T05	Degenerative disease, toxicity and neuroprotection	Deficient metabolic plasticity of glial cells in amyotrophic lateral sclerosis	<b>I. Belo do Nascimento</b> <sup>1</sup> , N. Desmet <sup>1</sup> , S. Wojtkielewicz <sup>1</sup> , E. Hermans <sup>1</sup>	<sup>1</sup> Université catholique de Louvain, Institute of Neuroscience/Neuropharmacology, Brussels, Belgium
T05-051D	700	T05	Degenerative disease, toxicity and neuroprotection	Cell-specific cholesterol synthesis ablation affects cerebral $\beta$ -amyloidosis	<b>L. Spieth</b> <sup>1</sup> , S. A. Berghoff <sup>1</sup> , C. Depp <sup>1</sup> , T. Sun <sup>1</sup> , A. Sasmita <sup>1</sup> , K. - A. Nave <sup>1</sup> , G. Saher <sup>1</sup>	<sup>1</sup> Max Planck Institute for Experimental Medicine, Neurogenetics, Göttingen, Germany
T05-052D	709	T05	Degenerative disease, toxicity and neuroprotection	The Sonic Hedgehog agonist SAG attenuates mitochondrial dysfunction and decreases the neurotoxicity induced by frataxin-deficient astrocytes	<b>A. V. Acosta</b> <sup>1</sup> , F. Loria <sup>2</sup> , J. Diaz-Nido <sup>1</sup>	<sup>1</sup> Universidad Autónoma de Madrid, Centro de Biología Molecular Severo Ochoa, Madrid, Spain <sup>2</sup> Hospital Universitario Fundación Alcorcón, Laboratorio de apoyo a la investigación, Madrid, Spain
T05-053D	711	T05	Degenerative disease, toxicity and neuroprotection	Parkinson's Disease-Associated LRRK2 Interferes with Astrocyte-Mediated Alpha-Synuclein Clearance	<b>V. Giusti</b> <sup>1</sup> , L. Streubel-Gallasch <sup>2</sup> , M. Sandre <sup>3,4</sup> , I. Tessari <sup>1</sup> , N. Plotegher <sup>1</sup> , E. Giusto <sup>5</sup> , A. Masato <sup>1</sup> , L. Iovino <sup>1</sup> , I. Battisti <sup>6,7</sup> , G. Arrigoni <sup>6,7</sup> , D. Shimshek <sup>8</sup> , E. Greggio <sup>1</sup> , M. - E. Tremblay <sup>9</sup> , L. Bubacco <sup>1</sup> , A. Erlandsson <sup>2</sup> , L. Civiero <sup>1,5</sup>	<sup>1</sup> University of Padova, Department of Biology, Padova, Italy <sup>2</sup> University of Uppsala, Department of Public Health and Caring Sciences, Uppsala, Sweden <sup>3</sup> University of Padova, Department of Neuroscience, Padova, Italy <sup>4</sup> University of Padova, Padova Neuroscience Center, Padova, Italy <sup>5</sup> IRCCS, San Camillo Hospital, Venezia, Italy <sup>6</sup> University of Padova, Department of Biomedical Sciences, Padova, Italy <sup>7</sup> University of Padova, CRIBI Biotechnology Center, Padova, Italy <sup>8</sup> Novartis Institutes, Biomedical Research, Basel, Switzerland <sup>9</sup> <del>University of Padova, Department of Biomedical Sciences, Padova, Italy</del>



Poster Number	Abstract Number	Topic	Topic	Abstract Title	Authors	Affiliation
T05-054D	712	T05	Degenerative disease, toxicity and neuroprotection	The glutamate transporter recycling is delayed by pathogenic LRRK2	<b>L. Iovino</b> <sup>1</sup> , V. Giusti <sup>1</sup> , F. Pischedda <sup>2</sup> , G. Tombesi <sup>1</sup> , A. Marte <sup>3</sup> , G. Piccoli <sup>2</sup> , R. Bandopadhyay <sup>4</sup> , C. Perego <sup>5</sup> , T. Bonifacino <sup>6</sup> , G. Bonanno <sup>6</sup> , C. Roseti <sup>7</sup> , E. Bossi <sup>7</sup> , L. Bubacco <sup>1</sup> , E. Greggio <sup>1</sup> , S. Hilfiker <sup>8</sup> , L. Civiero <sup>1,9</sup>	<sup>1</sup> University of Padova, Department of Biology, Padova, Italy <sup>2</sup> University of Trento, Department of Cellular, Computational and Integrative Biology – CIBIO, Trento, Italy <sup>3</sup> University of Genova, Department of Experimental Medicine, Genova, Italy <sup>4</sup> Reta Lila Weston Institute of Neurological Studies, UCL, Reta Lila Weston Institute of Neurological Studies, London, United Kingdom <sup>5</sup> University of Milano, Department of Pharmacological and Biomolecular Sciences, Milano, Italy <sup>6</sup> University of Genova, Department of Pharmacology-DIFAR, Genova, Italy <sup>7</sup> University of Insubria, Department of Biotechnology and Life sciences, Varese, Italy <sup>8</sup> Rutgers New Jersey Medical School, Department of Anesthesiology, Newark, New Jersey, United States of America <sup>9</sup>
T05-055D	738	T05	Degenerative disease, toxicity and neuroprotection	Effect of <i>Vitis Vinifera</i> Grape Seed Extract on brain and spinal cord demyelination and oxidative stress parameters in an experimental autoimmune encephalomyelitis mouse model	<b>M. Mabrouk</b> <sup>1,2</sup> , E. Aouani <sup>2</sup> , M. El Ayed <sup>2</sup> , M. Mokni <sup>2</sup> , Y. Aissouni <sup>1</sup> , L. Terrail <sup>1</sup> , M. Begou <sup>1</sup>	<sup>1</sup> UCA, INSERM UMR 1107, Clermont-Ferrand, France <sup>2</sup> CBBC, LSBA, Hammam -Lif, Tunis, Tunisia
T05-056D	742	T05	Degenerative disease, toxicity and neuroprotection	Loss of TDP-43 in astrocytes leads to motor deficits by triggering A1-like reactive phenotype and tri-glia dysfunction	<b>S. - C. Ling</b> <sup>1</sup> , A. Peng <sup>1</sup> , I. Agrawal <sup>1</sup> , W. Y. Ho <sup>1</sup> , Y. - C. Yen <sup>1</sup> , G. Tucker-Kellogg <sup>2</sup> , D. Gutmann <sup>3</sup>	<sup>1</sup> National University of Singapore, Physiology, Singapore, Singapore <sup>2</sup> National University of Singapore, Singapore, Singapore <sup>3</sup> Washington University School of Medicine, St Louis, Missouri, United States of America
T05-057E	754	T05	Degenerative disease, toxicity and neuroprotection	Role of SHIP1 in modulating microglial function	<b>A. Matera</b> <sup>1</sup> , R. C. Paolicelli <sup>1</sup>	<sup>1</sup> University of Lausanne, Department of Biomedical Sciences, Lausanne, Switzerland
T05-058E	760	T05	Degenerative disease, toxicity and neuroprotection	Exploring the link between myelin biology and Alzheimer's disease.	<b>O. Mercier</b> <sup>1</sup> , P. Durbec <sup>1</sup> , M. Cayre <sup>1</sup>	<sup>1</sup> Aix-Marseille Université - CNRS - IBDM, UMR7288, Marseille, France
T05-059E	763	T05	Degenerative disease, toxicity and neuroprotection	Accumulation of neuronal debris in astrocytes - a possible mechanism for spreading of tau pathology	<b>T. J. Mothes</b> <sup>1</sup> , E. Konstantinidis <sup>1</sup> , L. Streubel-Gallasch <sup>1</sup> , J. Rostami <sup>1</sup> , A. Falk <sup>2</sup> , A. Erlandsson <sup>1</sup>	<sup>1</sup> Uppsala University, Department of Health and Caring Sciences, Uppsala, Sweden <sup>2</sup> Karolinska Institute, Stockholm, Sweden
T05-060E	764	T05	Degenerative disease, toxicity and neuroprotection	Redox imaging in 5xFAD mice reveals close associations between microglia, highly oxidized dystrophic neurites and amyloid plaques	<b>S. Wendt</b> <sup>1</sup> , C. Groten <sup>1</sup> , S. Johnsons <sup>1</sup> , N. Weilingner <sup>1</sup> , B. MacVicar <sup>1</sup>	<sup>1</sup> University of British Columbia, Department of Psychiatry, Vancouver, British Columbia, Canada
T05-061E	777	T05	Degenerative disease, toxicity and neuroprotection	Development of cutting-edge editing technologies to treat Alexander disease	<b>V. Meneghini</b> <sup>1</sup> , G. Zambonini <sup>1</sup> , D. Sala <sup>1</sup> , A. Gritti <sup>1</sup>	<sup>1</sup> IRCCS San Raffaele Scientific Institute, San Raffaele Telethon Institute for Gene Therapy (SR-Tiget), Milan, Italy
T05-062E	783	T05	Degenerative disease, toxicity and neuroprotection	The nigrostriatal pathway of aged system $\alpha\text{-C}$ -deficient mice is not protected against MPTP-induced toxicity	<b>L. De Pauw</b> <sup>1</sup> , L. C. Winfrey <sup>3</sup> , C. Moore <sup>3</sup> , C. K. Meshul <sup>2,3</sup> , A. Massie <sup>1</sup>	<sup>1</sup> VUB, Neuro-Aging & Viro-Immunotherapy, Jette, Belgium <sup>2</sup> OHSU, Behavioural neuroscience, Portland, Oregon, United States of America <sup>3</sup> VA Medical Center, Portland, Oregon, United States of America

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T05-063E	791	T05	Degenerative disease, toxicity and neuroprotection	Differential eIF2B-mediated translational control between neuronal and glial cells during stress and disease	<b>F. Hanson</b> <sup>1</sup> , R. Hodgson <sup>1</sup> , M. De Oliveira <sup>1</sup> , A. Cross <sup>1</sup> , K. E. Allen <sup>1</sup> , S. Campbell <sup>1</sup>	<sup>1</sup> Sheffield Hallam University, Industry and Innovation Research Institute, Sheffield, United Kingdom
T05-064E	797	T05	Degenerative disease, toxicity and neuroprotection	Effects of alpha-synuclein on astrocytic-neuronal crosstalk	<b>P. Mulica</b> <sup>1</sup> , S. Pereira <sup>1</sup> , S. Delcambre <sup>1</sup> , C. Venegas <sup>1</sup> , R. Krüger <sup>1,2</sup> , A. Grünewald <sup>1,3</sup>	<sup>1</sup> University of Luxembourg, Luxembourg Centre for Systems Biomedicine, Belvaux, Luxembourg <sup>2</sup> Luxembourg Institute of Health, Strassen, Luxembourg <sup>3</sup> University of Lübeck Institute of Neurogenetics, Lübeck, Germany
T05-065E	815	T05	Degenerative disease, toxicity and neuroprotection	Identifying and controlling regulators of reactive astrocyte state change.	<b>B. L. Clayton</b> <sup>1</sup> , J. Kristell <sup>1</sup> , K. Allan <sup>1</sup> , M. Karl <sup>2</sup> , E. Garrison <sup>2</sup> , Y. Maeno-Hikichi <sup>1</sup> , E. Shick <sup>1</sup> , M. Scavuzzo <sup>1</sup> , A. Sturno <sup>1</sup> , R. Miller <sup>2</sup> , P. Tesar <sup>1</sup>	<sup>1</sup> Case Western Reserve University, Cleveland, Ohio, United States of America <sup>2</sup> George Washington University, Washington D.C., United States of America
T05-066E	816	T05	Degenerative disease, toxicity and neuroprotection	Analysis of autophagy and cytotoxicity in apolipoprotein E ε4/ε4 iPSC-derived mature human astrocytes in response to α-synuclein	S. Atashpanjeh <sup>1</sup> , A. J. Myers <sup>1</sup> , F. Andromidas <sup>1</sup> , B. E. MacKinnon <sup>1</sup> , T. Le <sup>1,2</sup> , T. L. Vazquez <sup>1</sup> , M. M. Shaffer <sup>1</sup> , <b>A. O. Koob</b> <sup>1</sup>	<sup>1</sup> University of Hartford, Biology Department, Neuroscience Program, West Hartford, Connecticut, United States of America <sup>2</sup> University of Massachusetts Medical School, Brudnick Neuropsychiatric Research Institute, Department of Neurobiology, Worcester, Massachusetts, United States of America
T05-067E	822	T05	Degenerative disease, toxicity and neuroprotection	Glia derived activated protein C activity in-vitro and in-vivo	<b>V. Golderman</b> <sup>1</sup> , A. Gerasimov <sup>2</sup> , S. Gofrit <sup>2</sup> , N. Maggio <sup>1,2,3</sup> , E. Shavit-Stein <sup>1,2</sup> , J. Chapman <sup>1,2,4</sup>	<sup>1</sup> Tel-Aviv university, Sackler Faculty of Medicine, Tel Aviv, Israel <sup>2</sup> The Chaim Sheba Medical Center, Department of Neurology, Ramat Gan, Israel <sup>3</sup> The Chaim Sheba Medical Center, Talpiot Medical Leadership Program, Ramat Gan, Israel <sup>4</sup> Tel-Aviv university, Sagol School of Neuroscience, Tel Aviv, Israel
T05-068E	839	T05	Degenerative disease, toxicity and neuroprotection	Mild uncoupling of astrocyte mitochondria: a strategy to rescue spatial memory deficits in Alzheimer's disease	<b>N. Rosenberg</b> <sup>1</sup> , A. - B. Rocher <sup>1</sup> , L. Restivo <sup>1</sup> , M. Briquet <sup>1</sup> , Y. Bernardinelli <sup>1</sup> , J. - Y. Chatton <sup>1</sup>	<sup>1</sup> University of Lausanne, Department of neurosciences, Lausanne, Vaud, Switzerland
T05-069E	860	T05	Degenerative disease, toxicity and neuroprotection	Deciphering the role of AIM2 in myelin damage and repair in a murine model of MS	<b>V. O. Asuzu</b> <sup>1</sup> , E. McKay <sup>1</sup> , A. Magennis <sup>1</sup> , S. Kuhn <sup>1</sup> , D. Fitzgerald <sup>1</sup> , Y. Dombrowski <sup>1</sup>	<sup>1</sup> Queen's University, Belfast, Center for Experimental Medicine, Belfast, United Kingdom
T05-070E	868	T05	Degenerative disease, toxicity and neuroprotection	Targeting a signal of glial activation with Semaphorin 4D blocking antibody pepinemab	<b>E. E. Evans</b> <sup>1</sup> , V. Mishra <sup>1</sup> , T. Fisher <sup>1</sup> , A. Reader <sup>1</sup> , C. Mallow <sup>1</sup> , W. Gold <sup>5</sup> , M. Mao <sup>5</sup> , E. Smith <sup>1</sup> , J. Leonard <sup>1</sup> , A. Feigin <sup>2,3</sup> , E. Siemers <sup>4</sup> , M. Zauderer <sup>1</sup>	<sup>1</sup> Vaccinex, Rochester, New York, United States of America <sup>2</sup> NYU Langone Health, New York, New York, United States of America <sup>3</sup> Huntington Study Group, Rochester, New York, United States of America <sup>4</sup> Siemers Integration LLC, Zionsville, Indiana, United States of America <sup>5</sup> The University of Sydney, The Children's Hospital at Westmead, Westmead, Australia

Poster Number	Abstract Number	Topic	Topic	Abstract Title	Authors	Affiliation
T06-001C	84	T06	(Energy) Metabolism	Astrocytic mitochondria regulates astrocytes morphogenesis and supports synaptogenesis	T. Zehnder <sup>1</sup> , F. Petrelli <sup>1</sup> , J. Romanos <sup>2</sup> , <b>E. De Oliveira Figueiredo</b> <sup>1</sup> , T. L. Lewis <sup>3</sup> , N. Déglon <sup>4</sup> , F. Polleux <sup>5,6</sup> , M. Santello <sup>2</sup> , P. Bezzi <sup>1</sup>	<sup>1</sup> University of Lausanne, Department of Fundamental Neurosciences, Lausanne, Vaud, Switzerland <sup>2</sup> University of Zurich, Institute of Pharmacology and Toxicology, Zurich, Zürich, Switzerland <sup>3</sup> Oklahoma Medical Research Foundation, 3Aging & Metabolism Program, Oklahoma City, Oklahoma, United States of America <sup>4</sup> Lausanne University Hospital (CHUV) and University of Lausanne, Department of Clinical Neurosciences, Lausanne, Vaud, Switzerland <sup>5</sup> Columbia University, Department of Neuroscience, New York, New York, United States of America <sup>6</sup> Mortimer B. Zuckerman Mind Brain Behavior Institute, Mortimer B. Zuckerman Mind Brain Behavior Institute, New York, New York, United States of America
T06-002C	118	T06	(Energy) Metabolism	Deficits in brain energy metabolism in a mouse model for Glut1 Deficiency Syndrome	<b>S. Burlet-Godinot</b> <sup>1</sup> , M. Soya <sup>1</sup> , A. Carrard <sup>1</sup> , M. Tang <sup>2</sup> , U. Monani <sup>2</sup> , D. De Vivo <sup>2</sup> , J. - L. Martin <sup>1</sup> , P. Magistretti <sup>3,1</sup>	<sup>1</sup> CHUV, Department of Psychiatry/Center for Psychiatric Neuroscience, Prilly, Vaud, Switzerland <sup>2</sup> Columbia University, Department of Neurology/Irving Medical Center, New York, New York, United States of America <sup>3</sup> KAUST, Division of Biological and Environmental Sciences and Engineering, Thuwal, Saudi Arabia
T06-003C	155	T06	(Energy) Metabolism	Intracellular lactate originates from glycogen stores in cultured rat astrocytes	<b>K. Fink</b> <sup>1</sup> , N. Vardjan <sup>1,2</sup> , R. Zorec <sup>1,2</sup> , M. Kreft <sup>3,1,2</sup>	<sup>1</sup> University of Ljubljana, Faculty of Medicine, Institute of pathophysiology, Ljubljana, Slovenia <sup>2</sup> Celica Biomedical, Ljubljana, Slovenia <sup>3</sup> University of Ljubljana, Biotechnical Faculty, Ljubljana, Slovenia
T06-004C	234	T06	(Energy) Metabolism	Modulating microglial metabolism in reducing post-stroke cognitive impairment	<b>S. Song</b> <sup>1,2</sup> , L. Yu <sup>1,2</sup> , M. N. Hasan <sup>1,2</sup> , V. Fiesler <sup>1,2,3</sup> , S. J. Mullett <sup>4</sup> , S. G. Wendell <sup>4,5</sup> , D. Sun <sup>1,2,3</sup>	<sup>1</sup> University of Pittsburgh, Department of Neurology, Pittsburgh, Pennsylvania, United States of America <sup>2</sup> University of Pittsburgh, Pittsburgh Institute for Neurodegenerative Disorders, Pittsburgh, Pennsylvania, United States of America <sup>3</sup> Veterans Affairs Pittsburgh Health Care System, Geriatric Research, Educational and Clinical Center, Pittsburgh, Pennsylvania, United States of America <sup>4</sup> University of Pittsburgh, Health Sciences Metabolomics and Lipidomics Core, Pittsburgh, Pennsylvania, United States of America <sup>5</sup> University of Pittsburgh, Department of Pharmacology and Chemical Biology, Pittsburgh, Pennsylvania, United States of America
T06-005C	355	T06	(Energy) Metabolism	The electrogenic sodium bicarbonate cotransporter 1 (NBCe1) protects astrocytes from intracellular acidosis during energy failure	<b>K. Everaerts</b> <sup>1</sup> , E. Roussa <sup>2</sup> , C. R. Rose <sup>1</sup>	<sup>1</sup> Heinrich-Heine-University, Institute of Neurobiology, Düsseldorf, North Rhine-Westphalia, Germany <sup>2</sup> Albert-Ludwigs-University, Anatomy and Cell Biology, Freiburg, Baden-Württemberg, Germany
T06-006D	367	T06	(Energy) Metabolism	Effects of Succinylation of Hippocampal Pyruvate Dehydrogenase Complex on Energy Metabolism and Neuronal Plasticity in Mouse Model of Depression	Y. Liu <sup>1</sup> , C. Du <sup>1</sup> , L. Wang <sup>1</sup> , J. Ma <sup>1</sup> , <b>K. Fan</b> <sup>1</sup>	<sup>1</sup> Dalian medical university, Dalian, China
T06-007D	409	T06	(Energy) Metabolism	Glial communication through connexin 43 and energy intake: a possible link.	<b>M. Barbot</b> <sup>1</sup> , B. Lebrun <sup>1</sup> , J. - D. Troadec <sup>1</sup>	<sup>1</sup> AUM/Laboratoire de Neurosciences Cognitives - UMR 7291, UMR7291, Marseille, France

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T06-008D	467	T06	(Energy) Metabolism	Astrocytic GLUT1 ablation improves systemic glucose metabolism and promotes cognition	<b>C. G. Ardanaz</b> <sup>1,3</sup> , M. J. Ramirez <sup>1,3</sup> , C. Smerdou <sup>2,3</sup> , M. Solas <sup>1,3</sup>	<sup>1</sup> University of Navarra, Department of Pharmacology and Toxicology, Pamplona, Spain <sup>2</sup> Center for Applied Medical Research (CIMA), Division of Gene Therapy and Regulation of Gene Expression, Pamplona, Spain <sup>3</sup> IdISNA Navarra Institute for Health Research Pamplona Spain
T06-009D	525	T06	(Energy) Metabolism	Stressed astrocytes accumulate lipid droplets	T. Smolič <sup>1</sup> , P. TavÄer <sup>1</sup> , A. Horvat <sup>1,2</sup> , U. Äene <sup>1</sup> , T. Petan <sup>3</sup> , R. Zorec <sup>1,2</sup> , <b>N. Vardjan</b> <sup>1,2</sup>	<sup>1</sup> University of Ljubljana, Faculty of Medicine, Institute of Pathophysiology, LN-MCP, Ljubljana, Slovenia <sup>2</sup> Celica Biomedical, Laboratory of Cell Engineering, Ljubljana, Slovenia <sup>3</sup> JoÄžef Stefan Institute, Department of Molecular and Biomedical Sciences, Ljubljana, Slovenia
T06-010D	551	T06	(Energy) Metabolism	Mitochondria dynamics are altered in chronic experimental autoimmune encephalomyelitis longitudinally and correlate with axon stress	<b>K. Atkinson</b> <sup>1</sup> , M. Osunde <sup>1</sup> , M. Feri <sup>1</sup> , S. Noori <sup>1</sup> , S. Sriram <sup>1</sup> , W. Rincon <sup>1</sup> , M. Sekyi <sup>1</sup> , A. Alluis <sup>1</sup> , T. Benbarka <sup>1</sup> , S. Tiwari-Woodruff <sup>1</sup>	<sup>1</sup> University of California Riverside, Division of Biomedical Sciences, Riverside, California, United States of America
T06-011E	572	T06	(Energy) Metabolism	Metabolic reprogramming in phagocytic microglia: from mitochondrial networks to cell function	<b>M. Márquez</b> <sup>1,2</sup> , J. Valero <sup>1,2</sup> , L. Ayerra <sup>3,4</sup> , A. Vilas <sup>5</sup> , V. Sánchez-Zafra <sup>1,2</sup> , A. Sierra <sup>1,2</sup> , F. García-Moreno <sup>1,6</sup> , I. Casafont <sup>7</sup> , M. S. Aymerich <sup>3,4,6</sup>	<sup>1</sup> Achucarro Basque Center for Neuroscience, Leioa, Spain <sup>2</sup> University of the Basque Country UPV/EHU, Leioa, Spain <sup>3</sup> University of Navarra, Departamento de Bioquímica y Genética, Pamplona, Spain <sup>4</sup> University of Navarra, CIMA, Programa de Neurociencias, Pamplona, Spain <sup>5</sup> University of Navarra, CIMA, Programa de Oncohematología, Pamplona, Spain <sup>6</sup> Ikerbasque Foundation, Bilbao, Spain <sup>7</sup> University of Cantabria-IDIVAL, Dpto. Anatomía y Biología Celular, Santander, Spain
T06-012E	585	T06	(Energy) Metabolism	Identification of Key Processes and Periods in a Model of Human Brain Energy Metabolism by Algorithmic Decomposition with Computational Singular Perturbation	D. G. Patsatzis <sup>1,2</sup> , E. - A. Tingas <sup>3</sup> , S. M. Sarathy <sup>1</sup> , D. A. Goussis <sup>4</sup> , <b>R. B. Jolivet</b> <sup>5</sup>	<sup>1</sup> King Abdullah University of Science and Technology, Clean Combustion Research Center, Thuwal, Saudi Arabia <sup>2</sup> National Technical University of Athens, Department of Mechanics, Athens, Greece <sup>3</sup> Edinburgh Napier University, School of Engineering and the Built Environment, Edinburgh, United Kingdom <sup>4</sup> Khalifa University of Science, Technology and Research, Department of Mechanical Engineering, Abu Dhabi, United Arab Emirates <sup>5</sup> University of Cantabria, Department of Applied Mathematics, Santander, Spain

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T06-013E	611	T06	(Energy) Metabolism	Tanycytes Control the Hypothalamic Uptake and Metabolic Actions of Liraglutide	<b>M. Imbernon</b> <sup>1</sup> , C. Saponaro <sup>2</sup> , H. C. Cederberg Helms <sup>3</sup> , L. Zubiaga <sup>2</sup> , S. Bitsi <sup>4</sup> , M. Duquenne <sup>1</sup> , A. Tomas <sup>4</sup> , S. Chen <sup>4</sup> , V. Salem <sup>4</sup> , E. Deligia <sup>1</sup> , V. Gmyr <sup>2</sup> , R. Denis <sup>5</sup> , J. Kerr-Conte <sup>2</sup> , D. Herrera Moro Chao <sup>5</sup> , D. Beiroa <sup>6</sup> , B. Steals <sup>2</sup> , F. Pattou <sup>2</sup> , F. Pfrieger <sup>7</sup> , B. Brodin <sup>3</sup> , B. Jones <sup>4</sup> , S. Luquet <sup>5</sup> , C. Bonner <sup>2</sup> , V. Prevot <sup>1</sup>	<sup>1</sup> Inserm, CHU Lille, Laboratory of Development and Plasticity of the Neuroendocrine Brain, Lille Neuroscience & Cognition, UMR-S 1172, Lille, France <sup>2</sup> CHU Lille, Inserm, Institut Pasteur de Lille, U1190, EGID, CHU Lille, lille, France <sup>3</sup> University of Copenhagen, Department of Pharmacy, Copenhagen, Denmark <sup>4</sup> Imperial College London, Division of Diabetes, Endocrinology and Metabolism, Section of Investigative Medicine, London, United Kingdom <sup>5</sup> Université de Paris, BFA, UMR 8251, CNRS, Paris, France <sup>6</sup> University of Santiago de Compostela-Instituto de Investigación Sanitaria, Department of Physiology, CIMUS, Santiago de Compostela, Spain <sup>7</sup> University of Strasbourg, Institute of Cellular and Integrative Neurosciences, CNRS UPR 3212, Strasbourg, France
T06-014E	790	T06	(Energy) Metabolism	Glial plasticity in the dorsal vagal complex in response to western diet in rodents	G. Champeil-Potokar <sup>1,5</sup> , M. - S. Hjejij <sup>1,5</sup> , O. Rampin <sup>1,5</sup> , A. - M. Davila <sup>2,5</sup> , D. Hermier <sup>2,5</sup> , G. Boudry <sup>3</sup> , V. Douard <sup>4,5</sup> , <b>J. Denis</b> <sup>1,5</sup>	<sup>1</sup> UMR 914 PNCA, INRAE-AgroParisTech, Jouy-en-Josas, France <sup>2</sup> UMR 914 PNCA, INRAE-AgroParisTech, Paris, France <sup>3</sup> Institut NuMeCan, INRAE-INSERM-Université de Rennes, Saint-Gilles, France <sup>4</sup> Institut MICALIS, INRAE-AgroParisTech, Jouy-en-Josas, France <sup>5</sup> Université Paris-Saclay, Palaiseau, France
T06-015E	813	T06	(Energy) Metabolism	mitROS signalling controls the onset of CNS myelination	<b>J. Tavares</b> <sup>1</sup> , A. Amaral <sup>1</sup> , J. Edgar <sup>2</sup> , M. Murphy <sup>3</sup> , M. Kotter <sup>1</sup>	<sup>1</sup> University of Cambridge, Clinical Neurosciences, Cambridge, United Kingdom <sup>2</sup> University of Glasgow, Institute of Infection, Immunity and Inflammation, Glasgow, United Kingdom <sup>3</sup> University of Cambridge, MRC Mitochondrial Biology Unit, Cambridge, United Kingdom
T06-016E	826	T06	(Energy) Metabolism	Aging in the absence of system x <sub>c</sub> <sup>-</sup> induces metabolic alterations in the hippocampus	<b>G. Ates</b> <sup>1</sup> , A. Massie <sup>1</sup>	<sup>1</sup> Vrije Universiteit Brussel, Neuro-Aging & Viro-Immunotherapy, Brussels, Belgium
T07-001E	137	T07	Extracellular matrix and cell adhesion molecules	The spatial distribution and potential producers of NG2 in the ventral horns with increasing distance from the injury site after spinal contusion	<b>I. Kabdesh</b> <sup>1</sup> , D. Sabirov <sup>1</sup> , Y. Mukhamedshina <sup>1,2</sup> , Y. Chelyshev <sup>2</sup>	<sup>1</sup> Kazan (Volga Region) Federal University, Institute of Fundamental Medicine and Biology, Kazan, Russian Federation <sup>2</sup> Kazan State Medical University, Department of Histology, Cytology and Embryology, Kazan, Russian Federation
T07-002E	294	T07	Extracellular matrix and cell adhesion molecules	Hyaluronan accumulates in cortical areas in the ageing brain: interplay with glia	<b>I. Tomé-Velasco</b> <sup>1</sup> , F. N. Soria <sup>1,2</sup>	<sup>1</sup> Achucarro Basque Center for Neuroscience, Leioa, Spain <sup>2</sup> Universidad del País Vasco y CIBERNED, Departamento de Neurociencias, Leioa, Spain
T07-003E	369	T07	Extracellular matrix and cell adhesion molecules	An unexpected role for matrix metalloproteinase 7 upon toxin-induced demyelination	<b>R. P. Gorter</b> <sup>1</sup> , H. Colognato <sup>2</sup> , W. Baron <sup>1</sup>	<sup>1</sup> University of Groningen, University medical center Groningen, Department of Biomedical Sciences of Cells and Systems, Section Molecular Neurobiology, Groningen, Netherlands <sup>2</sup> Stony Brook University, Department of Pharmacological Sciences, Stony Brook, New York, United States of America
T07-004E	672	T07	Extracellular matrix and cell adhesion molecules	Atomic force microscopy, a tool for evaluating the regenerative potential of glial cells in brain repair	T. Neumann <sup>1</sup> , <b>O. Pabsch</b> <sup>1</sup> , A. Körnig <sup>1</sup> , T. Müller <sup>1</sup> , H. Haschke <sup>1</sup>	<sup>1</sup> Bruker Nano GmbH, JPK BioAFM, Berlin, Germany

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T07-005E	682	T07	Extracellular matrix and cell adhesion molecules	New players in glia biology: VPS10P proteins as sorting receptors in astrocytes	<b>A. R. Malik</b> <sup>1</sup> , M. Bakun <sup>2</sup> , M. Fliszkiewicz <sup>1</sup> , M. Dadlez <sup>2</sup> , B. Kaminska <sup>1</sup>	<sup>1</sup> Nencki Institute of Experimental Biology, Warsaw, Poland <sup>2</sup> Institute of Biochemistry and Biophysics, Warsaw, Poland
T07-006E	821	T07	Extracellular matrix and cell adhesion molecules	Extracellular Matrix Influences Astrocytic Extracellular Vesicle Function in Wound Repair	<b>P. Sutter</b> <sup>1</sup> , M. Rouillard <sup>1</sup> , S. Alshawi <sup>1</sup> , S. Crocker <sup>1</sup>	<sup>1</sup> University of Connecticut School of Medicine, Farmington, Connecticut, United States of America
T08-001B	16	T08	Gene expression and transcription factors	Identifying genetic effects on the human microglia transcriptome associated with neurodegenerative and psychiatric disease	<b>G. Snijders</b> <sup>1</sup> , K. de Paiva Lopes <sup>1</sup> , J. Humphrey <sup>1</sup> , A. Allan <sup>1</sup> , M. Sneeboer <sup>2</sup> , E. Navarro <sup>1</sup> , B. Schilder <sup>1</sup> , R. Vialle <sup>1</sup> , M. Parks <sup>1</sup> , R. Missall <sup>1</sup> , W. van Zuiden <sup>1</sup> , F. Gigase <sup>1</sup> , R. Kubler <sup>1</sup> , A. Berdenis van Berlekom <sup>2</sup> , C. Bottcher <sup>3</sup> , J. Priller <sup>3</sup> , R. Kahn <sup>1</sup> , L. de Witte <sup>1</sup> , T. Pei <sup>1</sup>	<sup>1</sup> Icahn School of Medicine Mount Sinai Hospital, New York, New York, United States of America <sup>2</sup> University Medical Center Utrecht, Utrecht, Netherlands <sup>3</sup> Charité-Universitätsmedizin Berlin, Berlin, Germany
T08-002B	66	T08	Gene expression and transcription factors	Unravelling the fate determinants of astrocytic identity and their impact in direct neuronal reprogramming	<b>P. Natarajan</b> <sup>2,3,4</sup> , R. Bocchi <sup>1,2</sup> , V. Bednarova <sup>1</sup> , P. Smialowski <sup>1,2</sup> , G. Masserdotti <sup>1,2</sup> , M. Götz <sup>1,2,5</sup>	<sup>1</sup> Biomedical Center (BMC), Ludwig-Maximilians-Universität (LMU), Physiological Genomics, Munich, Germany <sup>2</sup> Helmholtz Center Munich, Institute for Stem Cell Research, BMC, LMU, Munich, Germany <sup>3</sup> Biomedical Center (BMC), Ludwig-Maximilians-Universität (LMU), Physiological Genomics, Graduate School of Systemic Neurosciences, Munich, Germany <sup>4</sup> Max-Planck-Institut für Biochemie, International Max Planck Research School for Life Sciences, Munich, Germany <sup>5</sup> Excellence Cluster of Systems Neurology (SYNERGY), Excellence Cluster of Systems Neurology (SYNERGY), Munich, Germany
T08-003B	67	T08	Gene expression and transcription factors	GPCRomics of homeostatic and disease-associated human microglia	<b>C. - C. Hsiao</b> <sup>1,2</sup> , R. Sankowski <sup>3</sup> , M. Prinz <sup>3,4,5</sup> , J. Smolders <sup>2,6</sup> , I. Huitinga <sup>2,7</sup> , J. Hamann <sup>1,2</sup>	<sup>1</sup> Amsterdam University Medical Centers, Amsterdam Infection & Immunity Institute, Amsterdam, Netherlands <sup>2</sup> Netherlands Institute for Neuroscience, Neuroimmunology Research Group, Amsterdam, Netherlands <sup>3</sup> University of Freiburg, Institute of Neuropathology, Freiburg, Germany <sup>4</sup> University of Freiburg, Signalling Research Centres BIOSS and CIBSS, Freiburg, Germany <sup>5</sup> University of Freiburg, Center for Basics in NeuroModulation (NeuroModulBasics), Freiburg, Germany <sup>6</sup> Erasmus Medical Center, MS Center ErasMS, Rotterdam, Netherlands <sup>7</sup> University of Amsterdam, Swammerdam Institute for Life Sciences, Amsterdam, Netherlands
T08-004B	106	T08	Gene expression and transcription factors	Human fetal microglia acquire homeostatic immune-sensing properties early in development	<b>L. Kracht</b> <sup>1</sup> , M. Borggrewe <sup>1</sup> , S. Eskandar <sup>1,2</sup> , N. Brouwer <sup>1</sup> , S. Chuva de Sousa Lopes <sup>3</sup> , J. Laman <sup>1</sup> , S. Scherjon <sup>2</sup> , J. Prins <sup>2</sup> , S. Kooistra <sup>1</sup> , B. Eggen <sup>1</sup>	<sup>1</sup> University Medical Center Groningen, 1Department of Biomedical Sciences of Cells & Systems/ Section Molecular Neurobiology, Groningen, Netherlands <sup>2</sup> University Medical Center Groningen, 2Department of Obstetrics & Gynecology, Groningen, Netherlands <sup>3</sup> Leiden University Medical Center, 3Department of Anatomy and Embryology, Leiden, Netherlands

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T08-005B	284	T08	Gene expression and transcription factors	Analysis of Krüppel like factors in oligodendroglial differentiation and myelin gene expression	<b>C. Bernhardt</b> <sup>1</sup> , E. Sock <sup>1</sup> , M. Wegner <sup>1</sup>	<sup>1</sup> Friedrich-Alexander-Universität Erlangen-Nürnberg, Institut für Biochemie, Erlangen, Bavaria, Germany
T08-006B	293	T08	Gene expression and transcription factors	Astroglial changes induced by Gfap-dependent expression of a Sox9 transgene	<b>J. K. Vogel</b> <sup>1</sup> , M. Wegner <sup>1</sup>	<sup>1</sup> Friedrich-Alexander-Universität Erlangen-Nürnberg, Institut für Biochemie, Erlangen, Bavaria, Germany
T08-007C	306	T08	Gene expression and transcription factors	RNA localization and local translation in microglial peripheral processes	<b>M. Blanco</b> <sup>1,2,3</sup> , E. Vecino <sup>3</sup> , J. Baleriola <sup>1,4</sup>	<sup>1</sup> Achucarro Basque Center for Neuroscience, Laboratory of Local translation in neurons and glia, Leioa, Spain <sup>2</sup> University of the Basque Country UPV/EHU, Neuroscience, Leioa, Spain <sup>3</sup> University of the Basque Country UPV/EHU, Dept of Cell Biology and Histology; Experimental Ophtho-mo-Biology Group (GOBE), Leioa, Spain <sup>4</sup> IKERBASQUE Basque Foundation for Science, Bilbao, Spain
T08-008C	316	T08	Gene expression and transcription factors	H2B monoubiquitination is essential for peripheral myelination and guided by Egr2 in Schwann cells	<b>H. M. Wüst</b> <sup>1</sup> , A. Wegener <sup>1</sup> , F. Fröb <sup>1</sup> , A. C. Hartwig <sup>1</sup> , F. Wegwitz <sup>2</sup> , V. L. Kari <sup>2</sup> , M. Schimmel <sup>3</sup> , E. R. Tamm <sup>3</sup> , S. A. Johnsen <sup>4,2</sup> , M. Wegner <sup>1</sup> , E. Sock <sup>1</sup>	<sup>1</sup> Friedrich-Alexander-Universität Erlangen-Nürnberg, Institut für Biochemie, Emil-Fischer-Zentrum, Erlangen, Germany <sup>2</sup> University Medical Center Göttingen, Department of General, Visceral, and Pediatric Surgery, Göttingen, Germany <sup>3</sup> Universität Regensburg, Institut für Humananatomie und Embryologie, Regensburg, Germany <sup>4</sup> Mayo Clinic, Gene Regulatory Mechanisms and Molecular Epigenetics Lab, Division of Gastroenterology and Hepatology, Rochester, United States of America
T08-009C	317	T08	Gene expression and transcription factors	Zinc-finger transcription factor Zfp276 acts as a novel regulator of oligodendroglial differentiation	<b>T. Aberle</b> <sup>1</sup> , S. Piefke <sup>1</sup> , S. Hillgärtner <sup>1</sup> , M. Schimmel <sup>2</sup> , E. R. Tamm <sup>2</sup> , M. Wegner <sup>1</sup> , M. Küspert <sup>1</sup>	<sup>1</sup> Friedrich-Alexander-Universität Erlangen-Nürnberg, Institut für Biochemie, Erlangen, Bavaria, Germany <sup>2</sup> Universität Regensburg, Institut für Humananatomie und Embryologie, Regensburg, Bavaria, Germany
T08-010C	326	T08	Gene expression and transcription factors	The Influence of the histone acetylase Tip60 on Schwann Cell Development in mice	<b>F. Fröb-Thiele</b> <sup>1</sup> , E. R. Tamm <sup>2</sup> , G. Eichele <sup>3</sup> , M. Wegner <sup>1</sup>	<sup>1</sup> FAU Erlangen-Nürnberg, Institute of Biochemistry, Erlangen, Bavaria, Germany <sup>2</sup> Universität Regensburg, Institute of molecular and cellular Anatomy, Regensburg, Bavaria, Germany <sup>3</sup> Max-Planck Institute for Biophysical Chemistry, Department of Genes and Behavior, Göttingen, Lower Saxony, Germany
T08-011C	340	T08	Gene expression and transcription factors	JAK2-STAT3-dependent molecular signature in reactive astrocytes of the mouse striatum	<b>M. Riquelme-Pérez</b> <sup>1,2</sup> , L. Abjean <sup>1</sup> , L. Ben Haim <sup>1</sup> , M. A. Carrillo-de Sauvage <sup>1</sup> , C. Derbois <sup>2</sup> , P. Hantraye <sup>1</sup> , E. Brouillet <sup>1</sup> , R. Olaso <sup>2</sup> , J. F. Deleuze <sup>2</sup> , E. Bonnet <sup>2</sup> , V. Redeker <sup>1,3</sup> , S. Brohard-Julien <sup>2</sup> , C. Escartin <sup>1</sup>	<sup>1</sup> Université Paris-Saclay, CEA, CNRS, MIRCen, Laboratoire des Maladies Neurodégénératives, Fontenay-aux-Roses, France <sup>2</sup> Centre National de Recherche en Génomique Humaine (CNRGH), Institut de Biologie François Jacob, CEA, Université Paris-Saclay, Evry, France <sup>3</sup> Université Paris-Saclay, CEA, CNRS, Institute for Integrative Biology of the Cell (I2BC), Gif-sur-Yvette, France
T08-012C	350	T08	Gene expression and transcription factors	Sensory experience shapes non-neuronal transcriptomic plasticity and cell:cell interactions in primary visual cortex	<b>Y. S. S. Auguste</b> <sup>1</sup> , E. Isko <sup>1</sup> , L. M. Cheadle <sup>1</sup>	<sup>1</sup> Cold Spring Harbor Laboratory, Neuroscience, Cold Spring Harbor, New York, United States of America

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T08-013D	353	T08	Gene expression and transcription factors	Transcriptomic Signatures of Human Astrocytes Across Age, Sex, and the Tumor Microenvironment	<b>M. Krawczyk</b> <sup>1</sup> , J. Haney <sup>1</sup> , C. Caneda <sup>1</sup> , R. Khankan <sup>1</sup> , S. Reyes <sup>4</sup> , J. Chang <sup>1,4</sup> , M. Morselli <sup>5</sup> , H. Vinters <sup>6,7</sup> , A. Wang <sup>4</sup> , I. Cobos <sup>8</sup> , M. Gandal <sup>1,9</sup> , M. Bergsneider <sup>4</sup> , W. Kim <sup>4</sup> , L. Liau <sup>4,10</sup> , W. Yong <sup>11</sup> , A. Jalali <sup>12</sup> , B. Deneen <sup>12,13</sup> , G. Grant <sup>14</sup> , G. Mathern <sup>1,4</sup> , A. Fallah <sup>4</sup> , Y. Zhang <sup>1,2,3</sup>	<sup>1</sup> University of California, Los Angeles, Department of Psychiatry, Los Angeles, California, United States of America <sup>2</sup> University of California, Los Angeles, Brain Research Institute, Los Angeles, California, United States of America <sup>3</sup> University of California, Los Angeles, Eli and Edythe Broad Center of Regenerative Medicine and Stem Cell Research, Los Angeles, California, United States of America <sup>4</sup> University of California, Los Angeles, Department of Neurosurgery, Los Angeles, California, United States of America <sup>5</sup> University of California, Los Angeles, Department of Molecular, Cell and Developmental Biology, Los Angeles, California, United States of America <sup>6</sup> University of California, Los Angeles, Department of Pathology, Los Angeles, California, United States of America <sup>7</sup> University of California, Los Angeles, Ronald Reagan UCLA Medical Center, Los Angeles, California, United States of America <sup>8</sup> Stanford University, Department of Pathology, Palo Alto, California, United States of America <sup>9</sup> University of California, Los Angeles, Department of Human Genetics, Los Angeles, California, United States of America <sup>10</sup> University of California, Los Angeles, Jonsson Comprehensive Cancer Center, Los Angeles, California, United States of America <sup>11</sup> University of California, Irvine, Department of Pathology, Irvine, California, United States of America <sup>12</sup> Baylor College of Medicine, Department of Neurosurgery, Houston, Texas, United States of America <sup>13</sup> Baylor College of Medicine, Department of Neuroscience, Houston, Texas, United States of America <sup>14</sup> University of California, Los Angeles, Department of Pathology, Los Angeles, California, United States of America
T08-014D	382	T08	Gene expression and transcription factors	The physiopathological role of REST in primary astrocytes	<b>E. Centonze</b> <sup>1,2</sup> , M. Albini <sup>1,2</sup> , A. Rocchi <sup>1</sup> , F. Cesca <sup>1,5</sup> , P. Baldelli <sup>2,3</sup> , S. Ferroni <sup>4</sup> , F. Benfenati <sup>1,2,3</sup> , P. Valente <sup>2,3</sup>	<sup>1</sup> Istituto Italiano di Tecnologia, Center for Synaptic Neuroscience and Technology, Genova, Italy <sup>2</sup> University of Genova, Department of Experimental Medicine, Genova, Italy <sup>3</sup> Ospedale Policlinico San Martino, IRCSS, Genova, Italy <sup>4</sup> University of Bologna, Department of Pharmacy and Biotechnology, Bologna, Italy <sup>5</sup> University of Trieste, Department of Life Sciences, Trieste, Italy
T08-015D	392	T08	Gene expression and transcription factors	Reaction of ependymal cells to spinal cord injury: a potential role for oncostatin pathway and microglial cells	<b>R. L. Chevreau</b> <sup>1</sup> , H. Ghazale <sup>1</sup> , C. Ripoll <sup>1</sup> , C. Chalfouh <sup>2</sup> , Q. Delarue <sup>2</sup> , A. - L. Hemonnot-Girard <sup>1</sup> , H. Hirbec <sup>1</sup> , S. Wahane <sup>3</sup> , F. Perrin <sup>4</sup> , H. Noristani <sup>5</sup> , N. Guerout <sup>2</sup> , J. - P. Hugnot <sup>1</sup>	<sup>1</sup> Université de Montpellier, INSERM / CNRS / IGF, Montpellier, France <sup>2</sup> Université de Rouen, IRIB / EA3830 GRHV, Rouen, France <sup>3</sup> University of California, David Geffen School of Medicine, Departments of Neurobiology and Neurosurgery, Los Angeles, California, United States of America <sup>4</sup> Université de Montpellier, INSERM / MMDN U1198, Montpellier, France <sup>5</sup> Shriners Hospitals Pediatric Research Center, Medical Education and Research Building, Philadelphia, Pennsylvania, United States of America



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T08-016D	396	T08	Gene expression and transcription factors	Promoting oligodendroglia differentiation from hEScells using an inducible CRISPRa system	<b>T. Tsarouchas</b> <sup>1</sup> , L. Wagstaff <sup>1</sup> , N. L. Kazakou <sup>1</sup> , A. Williams <sup>1</sup>	<sup>1</sup> University of Edinburgh, Centre for Regenerative Medicine, Institute for Regeneration and Repair, Edinburgh, United Kingdom
T08-017D	419	T08	Gene expression and transcription factors	Analysis of ectopic Sox9 expression in NG2 glia of the adult murine brain	<b>L. A. Engler</b> <sup>1</sup> , M. Wegner <sup>1</sup>	<sup>1</sup> Friedrich-Alexander-Universität, Erlangen-Nürnberg, Erlangen, Bavaria, Germany
T08-018D	506	T08	Gene expression and transcription factors	Transcriptomic analysis across early postnatal development in healthy and Mecp2 deficient mice reveals aberrant astrocyte maturation in Rett Syndrome mice	<b>R. D. Hernandez</b> <sup>1,2</sup> , L. M. Holt <sup>3</sup> , N. Pacheco <sup>4</sup> , M. L. Olsen <sup>1</sup>	<sup>1</sup> Virginia Polytechnic Institute and State University, School of Neuroscience, Blacksburg, Virginia, United States of America <sup>2</sup> Virginia Polytechnic Institute and State University, Graduate Program in Translational Biology, Medicine, and Health, Roanoke, Virginia, United States of America <sup>3</sup> Icahn School of Medicine at Mount Sinai, Nash Family Department of Neuroscience, Friedman Brain Institute, New York, New York, United States of America <sup>4</sup> National Institute on Aging, Laboratory of Epidemiology and Population Science (LEPS), Baltimore, Maryland, United States of America
T08-019E	530	T08	Gene expression and transcription factors	Transcriptomic Analysis of Microglial Cells in a Mouse Model of Machado-Joseph Disease	<b>A. B. Campos</b> <sup>1,2</sup> , S. Duarte-Silva <sup>1,2</sup> , A. Neves-Carvalho <sup>1,2</sup> , A. Teixeira-Castro <sup>1,2</sup> , A. F. Ambrósio <sup>3,4</sup> , P. Maciel <sup>1,2</sup>	<sup>1</sup> University of Minho, Life and Health Sciences Research Institute (ICVS), School of Medicine, Braga, Portugal <sup>2</sup> University of Minho, ICVS/3B's - PT Government Associate Laboratory, Guimarães, Portugal <sup>3</sup> University of Coimbra, Coimbra Institute for Clinical and Biomedical Research (iCBR), Faculty of Medicine, Coimbra, Portugal <sup>4</sup> University of Coimbra, CNC IBI, Coimbra, Portugal
T08-020E	621	T08	Gene expression and transcription factors	Integrated epigenetic and transcriptomic analyses reveal distinct transcriptional programs in mouse cerebellar and cortical astrocytes	<b>A. Welle</b> <sup>1</sup> , C. V. Kasakow <sup>2</sup> , A. M. Jungmann <sup>1</sup> , D. Gobbo <sup>2</sup> , L. Stopper <sup>2</sup> , K. Nordström <sup>1</sup> , A. Salhab <sup>1</sup> , G. Gasparoni <sup>1</sup> , A. Scheller <sup>2</sup> , F. Kirchhoff <sup>2</sup> , J. F. Walter <sup>1</sup>	<sup>1</sup> University of Saarland, Genetics and Epigenetics, Saarbrücken, Germany <sup>2</sup> University of Saarland, Molecular Physiology, Homburg, Germany
T08-021E	681	T08	Gene expression and transcription factors	P16-expressing microglial cells with distinct transcriptional profiles accumulate in the aging brain	<b>N. Talma</b> <sup>1,2</sup> , E. Gerrits <sup>1</sup> , B. Wang <sup>2</sup> , B. J. Eggen <sup>1</sup> , M. Demaria <sup>2</sup>	<sup>1</sup> University Medical Center Groningen, Department of Biomedical Sciences of Cells & Systems, Section Molecular Neurobiology, Groningen, Netherlands <sup>2</sup> University Medical Center Groningen, European Research Institute for the Biology of Ageing, Groningen, Netherlands
T08-022E	733	T08	Gene expression and transcription factors	Transcription factor combinations that define human astrocyte identity encode significant variation of maturity and function	<b>K. Baranes</b> <sup>1,2</sup> , N. Hastings <sup>1,2</sup> , S. Rahman <sup>1,2</sup> , J. M. Tavares <sup>1,2</sup> , W. - L. Kuan <sup>1</sup> , K. Blighe <sup>3</sup> , G. T. Belgard <sup>3</sup> , M. R. Kotter <sup>1,2</sup>	<sup>1</sup> University of Cambridge, Clinical Neurosciences, Cambridge, United Kingdom <sup>2</sup> University of Cambridge, Wellcome-MRC Cambridge Stem Cell Institute, Cambridge, United Kingdom <sup>3</sup> The Bioinformatics CRO, Niceville, Florida, United States of America
T08-023E	743	T08	Gene expression and transcription factors	Development of a test predicting treatment efficacy for multiple sclerosis	<b>D. Birmpili</b> <sup>1,2</sup> , I. Charmaké Askar <sup>1,2</sup> , L. Pham-Van <sup>1,2</sup> , M. Van der Heyden <sup>2</sup> , D. Bagnard <sup>1,2,3</sup>	<sup>1</sup> University of Strasbourg, Strasbourg, France <sup>2</sup> INSERM U1119, Strasbourg, France <sup>3</sup> Institut du Médicament de Strasbourg Medalis, Illkirch, France

Poster Number	Abstract Number	Topic	Topic	Abstract Title	Authors	Affiliation
T08-024E	768	T08	Gene expression and transcription factors	Distinct amyloid- $\beta$ and tau-associated microglia profiles in Alzheimer's disease	<b>E. Gerrits</b> <sup>1</sup> , N. Brouwer <sup>1</sup> , S. M. Kooistra <sup>1</sup> , M. E. Woodbury <sup>2</sup> , Y. Vermeiren <sup>3, 5, 6</sup> , M. Lambourne <sup>7</sup> , J. Mulder <sup>7</sup> , M. Kummer <sup>8</sup> , T. Moller <sup>2</sup> , K. Biber <sup>8</sup> , W. F. den Dunnen <sup>9</sup> , P. P. de Deyn <sup>3, 10, 5</sup> , B. J. Eggen <sup>1</sup> , E. W. Boddeke <sup>1</sup>	<sup>1</sup> University of Groningen and University Medical Center Groningen (UMCG), Department of Biomedical Sciences of Cells and Systems, Section Molecular Neurobiology, Groningen, Netherlands <sup>2</sup> AbbVie Inc, Foundational Neuroscience Center, Cambridge, Massachusetts, United States of America <sup>3</sup> Institute Born-Bunge, University of Antwerp, Department of Biomedical Sciences, Laboratory of Neurochemistry and Behavior, Wilrijk, Belgium <sup>4</sup> University of Antwerp, Faculty of Medicine & Health Sciences, Translational Neurosciences,, Antwerp, Belgium <sup>5</sup> Wageningen University & Research, Division of Human Nutrition and Health, Chair group of Nutritional Biology,, Wageningen, Netherlands <sup>6</sup> Karolinska Institute, Department of Neuroscience, Solna, Sweden <sup>7</sup> AbbVie Deutschland GmbH & Co. KG, Neuroscience Discovery, Ludwigshafen, Germany <sup>8</sup> University of Groningen and University Medical Center Groningen (UMCG), Department of Pathology and Medical Biology, Groningen, Netherlands <sup>9</sup> Memory Clinic of Hospital Network Antwerp (ZNA), Department of Neurology,
T09-001A	3	T09	Glial-neuronal interactions	Neuronal Subtype-Specific Vulnerability to Demyelination in DRG Neurons	<b>B. Elbaz-Eilon</b> <sup>1</sup> , L. Yang <sup>2</sup> , B. Rader <sup>1</sup> , R. Kawaguchi <sup>3</sup> , M. Traka <sup>4</sup> , C. Woolf <sup>5</sup> , W. Renthal <sup>2</sup> , B. Popko <sup>1</sup>	<sup>1</sup> Northwestern University, Feinberg School of Medicine, Department of Neurology, Division of Multiple Sclerosis and Neuroimmunology, Chicago, Illinois, United States of America <sup>2</sup> Harvard Medical School, 2. Department of Neurology, Brigham and Women's Hospital and Harvard Medical School, Boston, Massachusetts, United States of America <sup>3</sup> University of California, Program in Neurogenetics, Department of Neurology, David Geffen School of Medicine., Los Angeles, California, United States of America <sup>4</sup> Midwestern University, Department of Anatomy, College of Graduate Studies., Downers Grove, Illinois, United States of America <sup>5</sup> Harvard Medical School, Department of Neurobiology; M. Kirby Neurobiology Center, Boston Children's Hospital, 3 Blackfan Cir., Boston, Massachusetts, United States of America
T09-002A	5	T09	Glial-neuronal interactions	Alteration in Hepcidin-Ferroportin axis in Activated Microglia Are Linked to Neuronal Cell Death in JEV infection	<b>A. Kumar</b> <sup>1</sup> , G. Singh <sup>1</sup>	<sup>1</sup> Sanjay Gandhi Postgraduate Institute of Medical Sciences, Department of Molecular Medicine and Biotechnology, Lucknow, India
T09-003A	33	T09	Glial-neuronal interactions	Microglia sense neuronal activity indirectly via astrocyte GABA release in the postnatal mouse hippocampus	<b>F. Logiacco</b> <sup>1, 2</sup> , P. Xia <sup>1</sup> , S. Georgiev <sup>1</sup> , C. Franconi <sup>1</sup> , Y. - J. Chan <sup>1</sup> , B. Ugursu <sup>1, 3</sup> , R. Kühn <sup>3</sup> , H. Kettenmann <sup>*4</sup> , M. Semtner <sup>*1, 5</sup>	<sup>1</sup> Max-Delbrück-Center for Molecular Medicine in the Helmholtz Association, Cellular Neurosciences, Berlin, Berlin, Germany <sup>2</sup> Freie Universität Berlin, Department of Biology, Chemistry, and Pharmacy, Berlin, Berlin, Germany <sup>3</sup> Charité Universitätsmedizin Berlin, Experimental Ophthalmology, Berlin, Berlin, Germany <sup>4</sup> Max-Delbrück-Center for Molecular Medicine in the Helmholtz Association, Transgenic Core Facility, Berlin, Berlin, Germany <sup>5</sup> Chinese Academy of Sciences, Shenzhen Institutes of Advanced Technology, Shenzhen, China

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T09-004A	35	T09	Glial-neuronal interactions	Astrocyte calcium signaling in developing sensory domains	<b>V. Kellner</b> <sup>1</sup> , T. A. Babola <sup>1</sup> , S. Li <sup>1</sup> , C. J. Kersbergen <sup>1</sup> , G. Saher <sup>2</sup> , D. E. Bergles <sup>1, 3, 4</sup>	<sup>1</sup> Johns Hopkins University, The Solomon H. Snyder Department of Neuroscience, Baltimore, Maryland, United States of America <sup>2</sup> Max Planck Institute of Experimental Medicine, Department of Neurogenetics, Göttingen, Germany <sup>3</sup> Johns Hopkins University, Department of Otolaryngology Head and Neck Surgery, Baltimore, Maryland, United States of America <sup>4</sup> Johns Hopkins University, Kavli Neuroscience Discovery Institute, Baltimore, Maryland, United States of America
T09-005A	49	T09	Glial-neuronal interactions	Microglial calcium signaling: Role of neuronal activity and different calcium sensors	<b>A. D. Umpierre</b> <sup>1</sup> , L. - J. Wu <sup>1</sup>	<sup>1</sup> Mayo Clinic, Neurology, Rochester, Minnesota, United States of America
T09-006A	51	T09	Glial-neuronal interactions	Local translation in perisynaptic and perivascular astrocytic processes – a means to ensure astrocyte molecular and functional polarity?	<b>M. F. Oudart</b> <sup>1, 2</sup> , K. Avila <sup>1, 3</sup> , N. Mazaré <sup>1</sup> , M. Cohen-Salmon <sup>1, 2</sup>	<sup>1</sup> Collège de France, PSL Research University, Physiology and Physiopathology of the Gliovascular Unit, Center for Interdisciplinary Research in Biology, CNRS Unité Mixte de Recherche 724, INSERM Unité 1050, Labex Memolife, Paris, France <sup>2</sup> Sorbonne Université, Doctoral School n°158, Paris, France <sup>3</sup> Université de Paris Paris France
T09-007A	85	T09	Glial-neuronal interactions	Astrocyte Ca <sup>2+</sup> signalling and adenosine release regulate myelinated axon excitability and conduction speed	<b>J. Lezmy</b> <sup>1</sup> , T. Quintela-Lopez <sup>1</sup> , L. Arancibia-Carcamo <sup>1</sup> , D. Attwell <sup>1</sup>	<sup>1</sup> University College London, Department of Neuroscience, Physiology and Pharmacology, London, United Kingdom
T09-008A	110	T09	Glial-neuronal interactions	Astrocyte syncytial isopotentiality shapes neuronal excitability and synaptic transmission in hippocampus	<b>Y. Du</b> <sup>1</sup> , S. Aten <sup>1</sup> , B. Ma <sup>1</sup> , C. Kiyoshi <sup>1</sup> , L. Trank <sup>1</sup> , D. Mediratta <sup>1</sup> , E. Gervacio Camacho <sup>1</sup> , A. Guiher <sup>1</sup> , W. Sun <sup>1</sup> , M. Zhou <sup>1</sup>	<sup>1</sup> The Ohio State University, Department of Neuroscience, Columbus, Ohio, United States of America
T09-009A	111	T09	Glial-neuronal interactions	Glial TRPV4 activation by cell swelling suppresses neuronal firing	<b>K. Shibasaki</b> <sup>1</sup> , A. Egoshi <sup>1</sup> , S. Sugio <sup>2</sup>	<sup>1</sup> University of Nagasaki, Graduate School of Human Health Science, Laboratory of Neurochemistry, Nagasaki, Japan <sup>2</sup> Nagoya University, Dept. Anatomy Mol Cell Biol., Nagoya, Japan
T09-010A	123	T09	Glial-neuronal interactions	Signals from astrocytes to neurons: exosomes released from astrocytic processes	<b>C. Cervetto</b> <sup>1, 2</sup> , S. Pelassa <sup>1</sup> , A. Venturini <sup>1</sup> , M. Passalacqua <sup>3, 4</sup> , F. Pastorino <sup>5</sup> , M. Tedesco <sup>6</sup> , K. Cortese <sup>7</sup> , D. Guidolin <sup>8</sup> , G. Maura <sup>1</sup> , L. F. Agnati <sup>9, 10</sup> , M. Marcoli <sup>1, 2</sup>	<sup>1</sup> University of Genova, Section of Pharmacology and Toxicology, Department of Pharmacy, Genova, Italy <sup>2</sup> Interuniversity Centre for the promotion of the 3Rs in teaching and research, Genova, Italy <sup>3</sup> University of Genova, Section of Biochemistry, Department of Experimental Medicine, Genova, Italy <sup>4</sup> Italian Institute of Biostructures and Biosystems,, Roma, Italy <sup>5</sup> IRCCS Istituto G. Gaslini, Laboratory of Experimental Therapies in Oncology, Genova, Italy <sup>6</sup> 3BrainAG, Wädenswil, Switzerland <sup>7</sup> University of Genova, Section of Anatomy, Department of Experimental Medicine, Genova, Italy <sup>8</sup> University of Padova, Department of Neurosciences, Padova, Italy <sup>9</sup> University of Modena and Reggio Emilia,, Department of Diagnostic, Clinical Medicine and Public Health, Modena, Germany

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T09-011A	130	T09	Glial-neuronal interactions	Ultrastructural view of internal astrocytic organelles, astrocyte-astrocyte, and astrocyte-synapse contacts within the hippocampus.	C. Kiyoshi <sup>1</sup> , <b>S. Aten</b> <sup>1</sup> , E. Arzola <sup>1,3</sup> , J. Patterson <sup>2</sup> , A. Taylor <sup>1</sup> , Y. Du <sup>1</sup> , A. Guiher <sup>1</sup> , M. Philip <sup>1</sup> , E. G. Camacho <sup>1</sup> , D. Mediratta <sup>1</sup> , K. Collins <sup>1</sup> , K. Boni <sup>1</sup> , S. Garcia <sup>1</sup> , R. Kumar <sup>1</sup> , A. Drake <sup>1</sup> , A. Hegazi <sup>1</sup> , E. Benson <sup>3</sup> , G. Kidd <sup>3</sup> , D. Terman <sup>4</sup> , M. Zhou <sup>1</sup>	<sup>1</sup> Ohio State, Department of Neuroscience, Columbus, Ohio, United States of America <sup>2</sup> Ohio State, Advanced Computing Center for the Arts and Design, Columbus, Ohio, United States of America <sup>3</sup> Case Western Reserve University, Department of Neuroscience, Cleveland, Ohio, United States of America <sup>4</sup> Ohio State, Department of Mathematics, Columbus, Ohio, United States of America
T09-012A	134	T09	Glial-neuronal interactions	Nucleus Accumbens Astrocytes Control the Cognitive Impairment Derived from Chronic Exposure to THC	<b>C. Martín-Monteagudo</b> <sup>1</sup> , J. Esparza <sup>1</sup> , I. Serra <sup>1</sup> , M. Navarrete <sup>1</sup>	<sup>1</sup> Consejo Superior de Investigaciones Científicas, Instituto Cajal, Madrid, Spain
T09-013A	141	T09	Glial-neuronal interactions	Ischemia-induced changes in intracellular Na <sup>+</sup> and ATP in organotypic tissue slice cultures of the mouse neocortex	<b>D. Ziemens</b> <sup>1</sup> , N. Pape <sup>1</sup> , C. R. Rose <sup>1</sup>	<sup>1</sup> Heinrich Heine University Duesseldorf, Institute of Neurobiology, Duesseldorf, North Rhine-Westphalia, Germany
T09-014A	156	T09	Glial-neuronal interactions	Radial Glial Cells in the optic tectum of zebrafish display synchronized activity events associated with activation of the locus coeruleus.	<b>A. Uribe</b> <sup>1</sup> , A. Kulkarni <sup>1</sup> , R. Rozenblat <sup>2</sup> , D. Zada <sup>2</sup> , L. Appelbaum <sup>2</sup> , G. Sumbre <sup>1</sup>	<sup>1</sup> Ecole Normale Supérieure, Section de Neurosciences, Paris, France <sup>2</sup> Bar-Ilan University, The Faculty of Life Sciences and The Multidisciplinary Brain Research Center,, Ramat-Gan, Israel
T09-015A	159	T09	Glial-neuronal interactions	Schwann cells respond to nerve injury with distinct neuroprotective programs.	<b>B. Beirowski</b> <sup>1</sup> , E. Babetto <sup>1</sup> , R. Islam <sup>1</sup>	<sup>1</sup> SUNY Buffalo, Hunter James Kelly Research Institute, Buffalo, New York, United States of America
T09-016A	160	T09	Glial-neuronal interactions	Morphological Differences Between Terminal Schwann Cell at the Mouse and Human Neuromuscular Junction	<b>A. Alhindi</b> <sup>1,2,3</sup> , I. Boehm <sup>1,3</sup> , R. O. Forsythe <sup>4</sup> , J. Miller <sup>4</sup> , R. J. Skipworth <sup>4</sup> , H. Simpson <sup>5</sup> , R. A. Jones <sup>1,3</sup> , T. H. Gillingwater <sup>1,3</sup>	<sup>1</sup> University of Edinburgh, Edinburgh Medical School: Biomedical Sciences, Edinburgh, United Kingdom <sup>2</sup> King Abdulaziz University, Faculty of Medicine, Department of Anatomy, Jeddah, Saudi Arabia <sup>3</sup> University of Edinburgh, Euan MacDonald Centre for Motor Neurone Disease Research, Edinburgh, United Kingdom <sup>4</sup> Edinburgh Medical School and Royal Infirmary of Edinburgh, Clinical Surgery, Edinburgh, United Kingdom <sup>5</sup> University of Edinburgh, Department of Orthopaedic Surgery, Edinburgh, United Kingdom
T09-017A	162	T09	Glial-neuronal interactions	Satellite glia in sympathetic nervous system maintenance and functions	<b>A. Mapps</b> <sup>1</sup> , E. Boehm <sup>1</sup> , E. Tampakakis <sup>3</sup> , W. Keenan <sup>1</sup> , J. Langel <sup>2</sup> , M. Liu <sup>1</sup> , S. Hattar <sup>2</sup> , R. Kuruvilla <sup>1</sup>	<sup>1</sup> Johns Hopkins University, Cell, Molecular, Developmental Biology and Biophysical Chemistry, Baltimore, Maryland, United States of America <sup>2</sup> National Institute of Mental Health, NIH, Section on Light and Circadian Rhythms, Bethesda, Maryland, United States of America <sup>3</sup> Johns Hopkins Medical Institute, Johns Hopkins Heart and Vascular Institute, Baltimore, Maryland, United States of America
T09-018A	163	T09	Glial-neuronal interactions	Unique roles of microglial motile processes in phagocytosis of adult-born neurons in the hippocampus	<b>R. Kamei</b> <sup>1</sup> , S. Urata <sup>1</sup> , S. Okabe <sup>1</sup>	<sup>1</sup> The University of Tokyo, Department of Cellular Neurobiology, Graduate School of Medicine and Faculty of Medicine, Bunkyo-ku, Japan
T09-019A	185	T09	Glial-neuronal interactions	Astrocyte-mediated phagocytosis in mood and depression-like disorders	<b>E. Vivi</b> <sup>1</sup> , C. Román <sup>1</sup> , I. D. Neumann <sup>2,3</sup> , R. Rupprecht <sup>1,3</sup> , B. Di Benedetto <sup>1,3</sup>	<sup>1</sup> University Hospital Regensburg, Department of Psychiatry and Psychotherapy, Regensburg, Bavaria, Germany <sup>2</sup> University Regensburg, Department of Neurobiology, Regensburg, Bavaria, Germany <sup>3</sup> University Regensburg, Regensburg Center of Neuroscience, Regensburg, Bavaria, Germany

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T09-020A	190	T09	Glial-neuronal interactions	Activation of DREADDED astrocytes attenuates pharmacoresistant spontaneous seizures in a chronic epilepsy model	<b>I. Smolders</b> <sup>1</sup> , Y. Van Den Herrewegen <sup>1</sup> , S. Sahu <sup>1</sup> , L. Nestor <sup>1</sup> , D. De Bundel <sup>1</sup>	<sup>1</sup> Vrije Universiteit Brussel, Center for Neurosciences (C4N), Brussel, Belgium
T09-021B	197	T09	Glial-neuronal interactions	Generation of human brain spheroids comprising multiple neuroectoderm- and mesoderm-derived cell types	<b>K. D. Kleijn</b> <sup>1,2</sup> , W. Zuure <sup>1</sup> , K. Straasheijm <sup>1,2</sup> , M. Martens <sup>1,2</sup> , G. Martens <sup>1,2</sup>	<sup>1</sup> Radboud University Nijmegen, Molecular Animal Physiology, Nijmegen, Netherlands <sup>2</sup> NeuroDrug Research B.V., Nijmegen, Netherlands
T09-022B	200	T09	Glial-neuronal interactions	Developing Human Pluripotent Stem Cell-Based Cerebral Organoids with a Controllable Microglia Ratio for Modeling Brain Development and Pathology	<b>R. Xu</b> <sup>1</sup> , P. Jiang <sup>1</sup>	<sup>1</sup> Rutgers University, Piscataway, New Jersey, United States of America
T09-023B	222	T09	Glial-neuronal interactions	Different parameters of spatiotemporal calcium activity in cortical astrocytes are linked to different phases of mouse running	<b>A. Fedotova</b> <sup>1,2</sup> , T. Kopcsányi <sup>3</sup> , M. Tibeykina <sup>3</sup> , E. Pryazhnikov <sup>3</sup> , A. Brazhe <sup>1,2</sup> , L. Khirug <sup>3</sup> , A. Semyanov <sup>2,1</sup>	<sup>1</sup> Moscow State University, Faculty of Biology, Moscow, Russian Federation <sup>2</sup> Shemyakin-Ovchinnikov Institute of Bioorganic Chemistry of the Russian Academy of Sciences, Laboratory of Extrasynaptic Signalling, Moscow, Russian Federation <sup>3</sup> University of Helsinki, Neuroscience Center NC-HiLIFE, Helsinki, Finland
T09-024B	229	T09	Glial-neuronal interactions	Molecular mechanism of phosphatidylserine exposure during developmental synaptic pruning	<b>T. Li</b> <sup>1,2</sup> , D. Yu <sup>1,2</sup> , H. C. Oak <sup>1</sup> , B. Zhu <sup>1,2</sup> , L. Wang <sup>1,3</sup> , X. Jiang <sup>1</sup> , R. S. Molday <sup>4</sup> , A. Kriegstein <sup>1,3</sup> , X. Piao <sup>1,2,5</sup>	<sup>1</sup> University of California, San Francisco (UCSF), Eli and Edythe Broad Center of Regeneration Medicine and Stem Cell Research, San Francisco, California, United States of America <sup>2</sup> University of California, San Francisco (UCSF), Newborn Brain Research Institute, San Francisco, California, United States of America <sup>3</sup> University of California, San Francisco (UCSF), Department of Neurology, San Francisco, California, United States of America <sup>4</sup> University of British Columbia, Department of Biochemistry and Molecular Biology, Vancouver, British Columbia, Canada <sup>5</sup> University of California, San Francisco (UCSF), Weill Institute for Neuroscience, San Francisco, California, United States of America
T09-025B	256	T09	Glial-neuronal interactions	Astrocytes in the ventromedial hypothalamus modulate neuronal activity to regulate anxiety-like behavior through NMDA receptor	<b>J. Shao</b> <sup>1,2</sup> , Y. Liu <sup>1,2</sup> , L. Zhang <sup>1</sup> , D. Gao <sup>1,2</sup> , J. Tu <sup>1</sup> , F. Yang <sup>1</sup>	<sup>1</sup> Shenzhen Institutes of Advanced Technology, Chinese Academy of Sciences, The Brain Cognition and Brain Disease Institute, Shenzhen, China <sup>2</sup> University of Chinese Academy of Sciences, Beijing, China
T09-026B	261	T09	Glial-neuronal interactions	Oligodendroglia regulate structural and functional neuronal plasticity in the mammalian cortex	<b>W. Xin</b> <sup>1</sup> , M. Kaneko <sup>2</sup> , M. Stryker <sup>2</sup> , J. Chan <sup>1</sup>	<sup>1</sup> University of California, San Francisco, Neurology, San Francisco, California, United States of America <sup>2</sup> University of California, San Francisco, Physiology, San Francisco, California, United States of America
T09-027B	277	T09	Glial-neuronal interactions	Astrocytes shape functional visual maps in the superior colliculus	<b>J. Visser</b> <sup>1</sup> , J. Ribot <sup>1</sup> , N. Rouach <sup>1</sup>	<sup>1</sup> Collège de France, Center for Interdisciplinary Research in Biology, Paris, France
T09-028B	307	T09	Glial-neuronal interactions	Modulation of the presynaptic local translatoome by astrocytic extracellular vesicles in Alzheimer's Disease	<b>A. de la Cruz</b> <sup>1,2</sup> , M. Gamarra <sup>1,2</sup> , J. Baleriola <sup>1,3,4</sup>	<sup>1</sup> Achucarro Basque Center for Neuroscience, Laboratory of Local Translation in Neurons and Glia, Leioa, Spain <sup>2</sup> University of the Basque Country (UPV/EHU), Neuroscience Department, Leioa, Spain <sup>3</sup> University of the Basque Country (UPV/EHU), Cellular Biology and Histology Department, Leioa, Spain <sup>4</sup> IKERBASQUE, Basque Foundation for Science, Bilbao, Spain

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T09-029B	309	T09	Glial-neuronal interactions	Discovering the biological basis of neuronal-activity induced myelin repair	<b>D. Maas</b> <sup>1</sup> , B. Manot-Saillet <sup>1</sup> , C. Habermacher <sup>1</sup> , P. Bun <sup>1</sup> , M. C. Angulo <sup>1,2</sup>	<sup>1</sup> Université de Paris, Institute of Psychiatry and Neuroscience of Paris (IPNP), INSERM U1266, F-75014 Paris, France, Paris, France <sup>2</sup> GHU PARIS psychiatrie & neurosciences, F-75014 Paris, France, Paris, France
T09-030B	324	T09	Glial-neuronal interactions	Network-Specific Astrocyte Heterogeneity in the Nucleus Accumbens	<b>I. Serra</b> <sup>1</sup> , J. Esparza <sup>1</sup> , C. Martín-Monteagudo <sup>1</sup> , M. Navarrete <sup>1</sup>	<sup>1</sup> CSIC, Cajal Institute, Madrid, Spain
T09-031B	334	T09	Glial-neuronal interactions	Restorative astrocytes with reduced LCN2 activation are protective against neurodegeneration in ischemic stroke	<b>R. Liu</b> <sup>1,2</sup> , C. Young <sup>2,3</sup> , D. Sun <sup>2,3,4</sup> , Z. Zhang <sup>1</sup> , G. Begum <sup>2,3</sup>	<sup>1</sup> The First Affiliated Hospital of Harbin Medical University, Department of Neurology, Harbin, China <sup>2</sup> University of Pittsburgh, Department of Neurology, Pittsburgh, Pennsylvania, United States of America <sup>3</sup> University of Pittsburgh, The Pittsburgh Institute for Neurodegenerative Diseases, Pittsburgh, Pennsylvania, United States of America <sup>4</sup> Educational and Clinical Center, Veterans Affairs Pittsburgh Health Care System, Geriatric Research, Pittsburgh, Pennsylvania, United States of America
T09-032B	343	T09	Glial-neuronal interactions	Generation of a Glia-Neuron Co-culture System Derived From Human Pluripotent Stem Cells	<b>J. Wang</b> <sup>1</sup> , J. Chan <sup>1</sup> , A. C. Eaves <sup>1,2</sup> , S. A. Louis <sup>1</sup> , E. Knock <sup>1</sup>	<sup>1</sup> STEMCELL Technologies Inc., Research and development, Vancouver, British Columbia, Canada <sup>2</sup> BC Cancer Terry Fox Laboratory, Vancouver, British Columbia, Canada
T09-033B	351	T09	Glial-neuronal interactions	The dualistic role of PKCε activation in Schwann cell and peripheral sensory neurons is mediated by the neuroactive steroid ALLO.	<b>V. Bonalume</b> <sup>1</sup> , V. Melfi <sup>1</sup> , L. F. Castelnovo <sup>2</sup> , T. Mohamed <sup>1</sup> , L. Ceffino <sup>1</sup> , F. Fumagalli <sup>1</sup> , A. Colciago <sup>1</sup> , V. Magnaghi <sup>1</sup>	<sup>1</sup> University of Milan, Department of Pharmacological and Biomolecular Sciences, Milan, Italy <sup>2</sup> The University of Texas at Austin, Marine Science Institute, Port Aransas, Texas, United States of America
T09-034B	377	T09	Glial-neuronal interactions	Astrocyte-derived extracellular vesicles modulate local translation in neurons	<b>M. Gamarra</b> <sup>1,2</sup> , E. González <sup>3</sup> , M. Azkargorta <sup>4</sup> , J. M. Falcón <sup>3,5</sup> , F. Elortza <sup>4</sup> , J. Baleriola <sup>1,5,6</sup>	<sup>1</sup> Achucarro Basque Center for Neuroscience, Laboratory of Local Translation in Neurons and Glia, Leioa, Spain <sup>2</sup> University of Basque Country, UPV/EHU, Neuroscience, Leioa, Spain <sup>3</sup> CICbioGUNE, Exosomes Laboratory, Derio, Spain <sup>4</sup> CICbioGUNE, Proteomics Platform, Derio, Spain <sup>5</sup> IKERBASQUE, Basque Foundation for Science, Bilbao, Spain <sup>6</sup> University of Basque Country, UPV/EHU, Cellular Biology and Histology, Leioa, Spain
T09-035B	378	T09	Glial-neuronal interactions	Role of astrocytic Ca <sup>2+</sup> signaling in synaptic transmission, plasticity and memory: implications for neurodegenerative diseases	<b>E. Moukarzel</b> <sup>1</sup> , C. Agulhon <sup>1</sup>	<sup>1</sup> Université de Paris, CNRS UMR 8002 –Glia-Glia & Glia-Neurons Interactions Group - Integrative Neuroscience and Cognition Center, Paris, France
T09-036B	397	T09	Glial-neuronal interactions	The primary cilium as an organelle for astrocyte-neuron communication.	<b>L. De las Heras-García</b> <sup>1,2</sup> , O. Pampliega <sup>1,2</sup>	<sup>1</sup> Achucarro Basque Center for Neuroscience, Leioa, Spain <sup>2</sup> Universidad del País Vasco UPV-EHU, Departamento de Neurociencias, Leioa, Spain
T09-037C	410	T09	Glial-neuronal interactions	Satellite glia cell-proprioceptor interactions in dorsal root ganglia	<b>P. Meriau</b> <sup>1</sup> , S. Guinoiseau <sup>1</sup> , C. Joséphine <sup>2</sup> , A. P. Bemelmans <sup>2</sup> , C. Agulhon <sup>1</sup>	<sup>1</sup> Université de Paris, CNRS UMR 8002 –Glia-Glia & Glia-Neurons Interactions Group - Integrative Neuroscience and Cognition Center, Paris, France <sup>2</sup> Molecular Imaging Research Center, MIRcen / CEA, Fontenay-aux-Roses, France

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T09-038C	426	T09	Glial-neuronal interactions	Astroglial gap junctions strengthen hippocampal network activity by sustaining afterhyperpolarization	<b>E. Dossi</b> <sup>1</sup> , L. Zonca <sup>2,3</sup> , H. Pivonkova <sup>1,4</sup> , L. Vargova <sup>4,5</sup> , O. Chever <sup>1</sup> , D. Holcman <sup>2</sup> , N. Rouach <sup>1</sup>	<sup>1</sup> Collège de France, Neuroglial Interactions in Cerebral Physiopathology, Center for Interdisciplinary Research in Biology, Paris, France <sup>2</sup> Ecole Normale Supérieure-PSL, Group of Data Modeling and Computational Biology, Institute of Biology, Paris, France <sup>3</sup> ED386, Ecole Doctorale de Sciences Mathématiques Paris centre, Paris, France <sup>4</sup> Czech Academy of Sciences, Department of Cellular Neurophysiology, Institute of Experimental Medicine, Prague, Czech Republic <sup>5</sup> Graduate Institute, Faculty of Medicine, Bar Ilan University, Ramat Gan, Israel
T09-039C	440	T09	Glial-neuronal interactions	Altered perisynaptic astrocyte processes in a mouse model for the leukodystrophy MLC	M. S. Kater <sup>3</sup> , K. F. Baumgart <sup>1,2</sup> , T. S. Heistek <sup>2</sup> , K. E. Carney <sup>3</sup> , A. Badia-Soteras <sup>3</sup> , A. J. Timmerman <sup>2</sup> , A. B. Smit <sup>3</sup> , M. S. Van der Knaap <sup>1,4</sup> , H. D. Mansvelde <sup>2</sup> , M. H. Verheijen <sup>3</sup> , <b>R. Min</b> <sup>1,2</sup>	<sup>1</sup> Amsterdam University Medical Centers, Department of Child Neurology, Emma Children's Hospital, Amsterdam Neuroscience, Amsterdam, Netherlands <sup>2</sup> Vrije Universiteit Amsterdam, Department of Integrative Neurophysiology, Center for Neurogenomics and Cognitive Research, Amsterdam Neuroscience, Amsterdam, Netherlands <sup>3</sup> Vrije Universiteit Amsterdam, Department of Molecular and Cellular Neurobiology, Center for Neurogenomics and Cognitive Research, Amsterdam Neuroscience, Amsterdam, Netherlands <sup>4</sup> Vrije Universiteit Amsterdam, Department of Functional Genomics, Center for Neurogenomics and Cognitive Research, Amsterdam Neuroscience, Amsterdam, Netherlands
T09-040C	455	T09	Glial-neuronal interactions	Characterization of microglial morphodynamics during sleep-wake cycle	<b>K. Combet</b> <sup>1,2</sup> , E. Wayere <sup>2</sup> , J. Honnorat <sup>1,2,3</sup> , J. C. Comte <sup>1,4</sup> , O. Pascual <sup>1,2</sup>	<sup>1</sup> Claude Bernard Lyon 1 University, Lyon, France <sup>2</sup> Synaptopathies and Autoantibodies (SynatAc) Team, Institut NeuroMyoGène (INMG), Lyon, France <sup>3</sup> French Reference Center on Paraneoplastic Neurological Syndromes and Autoimmune Encephalitis, Hospices Civils de Lyon (HCL), Bron, France <sup>4</sup> Forgetting Team, Centre de Recherche en Neurosciences de Lyon (CRNL), Bron, France
T09-041C	466	T09	Glial-neuronal interactions	Astrocytes from distinct nigrostriatal brain regions secrete extracellular vesicles able to mediate neuroprotection in cellular models of Parkinson's disease	<b>L. Leggio</b> <sup>1</sup> , F. L'Episcopo <sup>2</sup> , A. Magri <sup>3</sup> , M. J. Ulloa-Navas <sup>4</sup> , G. Paternò <sup>1</sup> , S. Vivarelli <sup>1</sup> , C. Tirolo <sup>2</sup> , N. Testa <sup>2</sup> , S. Caniglia <sup>2</sup> , C. Bastos <sup>5</sup> , P. Risiglione <sup>3</sup> , F. Pappalardo <sup>1</sup> , N. Faria <sup>5</sup> , S. Pluchino <sup>6</sup> , J. M. Garcia-Verdugo <sup>4</sup> , A. Messina <sup>3</sup> , B. Marchetti <sup>1,2</sup> , N. Iraci <sup>1</sup>	<sup>1</sup> University of Catania, Department of Biomedical and Biotechnological Sciences, Catania, Italy <sup>2</sup> Oasi Research Institute-IRCCS, Troina, Italy <sup>3</sup> University of Catania, Department of Biological, Geological and Environmental Sciences, Catania, Italy <sup>4</sup> University of Valencia, Laboratorio de Neurobiología Comparada, Instituto Cavanilles de Biodiversidad y Biología Evolutiva, Valencia, Spain <sup>5</sup> University of Cambridge, Department of Veterinary Medicine, Cambridge, United Kingdom <sup>6</sup> University of Cambridge, Department of Clinical Neurosciences, Cambridge, United Kingdom
T09-042C	472	T09	Glial-neuronal interactions	Neuron-glia crosstalk mediate the neurotoxic effects of ketamine via extracellular vesicles	<b>D. H. Penning</b> <sup>1,2</sup> , S. Cazacu <sup>2,1</sup> , V. Jevtovic-Todorovic <sup>3</sup> , S. Kalkanis <sup>2</sup> , M. Lewis <sup>1</sup> , C. Brodie <sup>4</sup>	<sup>1</sup> Henry Ford Health System, Anesthesiology, Detroit, Michigan, United States of America <sup>2</sup> Henry Ford Health System, Neurosurgery, Detroit, Michigan, United States of America <sup>3</sup> University of Colorado School of Medicine, Anesthesiology, Aurora, Colorado, United States of America <sup>4</sup> Bar Ilan University, Faculty of Life Sciences, Ramat Gan, Israel

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T09-043C	479	T09	Glial-neuronal interactions	Neural-glia interactions mediate the loss of perisomatic inhibitory synapses in <i>Toxoplasma gondii</i> infection	<b>G. L. Carrillo</b> <sup>1,2</sup> , V. Ballard <sup>1</sup> , T. Glausen <sup>3</sup> , Z. Boone <sup>1,4</sup> , J. Teamer <sup>1,5</sup> , C. Hinkson <sup>1,6</sup> , E. Wohlfert <sup>3</sup> , I. Blader <sup>3</sup> , M. Fox <sup>1,4,7</sup>	<sup>1</sup> Center for Neurobiology Research, Fralin Biomedical Research Institute at Virginia Tech Carilion, Roanoke, Virginia, United States of America <sup>2</sup> Translational Biology Medicine and Health, Virginia Tech, Roanoke, Virginia, United States of America <sup>3</sup> Department of Microbiology and Immunology, University at Buffalo, Buffalo, New York, United States of America <sup>4</sup> School of Neuroscience, Virginia Tech, Blacksburg, Virginia, United States of America <sup>5</sup> NeuroSURF, Fralin Biomedical Research Institute at Virginia Tech Carilion, Roanoke, Virginia, United States of America <sup>6</sup> Virginia Tech Carilion School of Medicine, Roanoke, Virginia, United States of America <sup>7</sup> Department of Biological Sciences, Virginia Tech, Blacksburg, Virginia, United States of America
T09-044C	488	T09	Glial-neuronal interactions	Compartment-Specific Nanomodular Signaling Drives Functional Tripartite Synapse Assembly	<b>J. Trotter</b> <sup>1</sup> , Z. Dargaei <sup>1</sup> , M. Wöhr <sup>1,3,4</sup> , A. Sclip <sup>1</sup> , S. Essayan-Perez <sup>1</sup> , K. Liakath-Ali <sup>1</sup> , K. Raju <sup>1</sup> , A. Nabet <sup>1</sup> , X. Liu <sup>5</sup> , T. Südhof <sup>1,2</sup>	<sup>1</sup> Stanford University, Molecular and Cellular Physiology, Stanford, California, United States of America <sup>2</sup> Stanford University, Howard Hughes Medical Institute, Stanford, California, United States of America <sup>3</sup> University of Southern Denmark, Department of Biology, Odense, Denmark <sup>4</sup> Philipps-University of Marburg, Experimental and Biological Psychology, Marburg, Hesse, Germany <sup>5</sup> Yale University School of Medicine, Department of Cell Biology, New Haven, Connecticut, United States of America
T09-045C	489	T09	Glial-neuronal interactions	Small extracellular vesicles from primary astrocytes exert a neuroprotective effect on damaged primary neuronal cultures.	<b>J. Alarcon-Gil</b> <sup>1</sup> , M. Posada-Gracia <sup>1</sup> , J. Pascual-Guerra <sup>1</sup> , J. A. Fafian-Labora <sup>2</sup> , C. L. Paíno <sup>1</sup> , A. Escobar-Peso <sup>1</sup> , M. J. Casarejos <sup>1</sup> , A. O'Leahy <sup>2</sup> , J. A. Rodríguez-Navarro <sup>1</sup>	<sup>1</sup> Instituto Ramón y Cajal de Investigación Sanitaria, Madrid, Spain <sup>2</sup> Queen Mary University of London, Epigenetics & Cellular Senescence Group, Blizard Institute, Barts and the London School of Medicine and Dentistry, London, United Kingdom
T09-046C	503	T09	Glial-neuronal interactions	Investigating the structure and function of synaptic contacts between neurons and oligodendrocyte precursor cells in vivo	<b>A. S. Dumitrescu</b> <sup>1</sup> , R. Marisca <sup>2</sup> , Y. Xiao <sup>2</sup> , L. J. Hoodless <sup>1</sup> , T. Czopka <sup>1,2</sup>	<sup>1</sup> University of Edinburgh, Centre for Clinical Brain Sciences, Edinburgh, United Kingdom <sup>2</sup> Technical University of Munich, Institute of Neuronal Cell biology, Munich, Germany
T09-047C	511	T09	Glial-neuronal interactions	Neuropathic pain: Characterisation of adrenoceptors analgesic downstream signalling in Spinal Glial cells	<b>E. Damo</b> <sup>1</sup> , R. Kuner <sup>1</sup> , M. Simonetti <sup>1</sup>	<sup>1</sup> University of Heidelberg, Pharmacology Institute, Heidelberg, Baden-Württemberg, Germany
T09-048C	513	T09	Glial-neuronal interactions	Investigating gene expression changes in oligodendrocyte precursor cells in response to neural activity	<b>L. J. Hoodless</b> <sup>1</sup> , R. Marisca <sup>2,3</sup> , Y. Xiao <sup>2</sup> , T. Czopka <sup>1,2</sup>	<sup>1</sup> University of Edinburgh, Centre for Clinical Brain Sciences, Edinburgh, United Kingdom <sup>2</sup> Technical University of Munich, Institute of Neuronal Cell Biology, Munich, Bavaria, Germany <sup>3</sup> Ludwig-Maximilian University of Munich, Graduate School of Systems Neurosciences, Munich, Bavaria, Germany



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T09-049C	519	T09	Glial-neuronal interactions	OPC shapes medial prefrontal cortical inhibition by regulating interneuron apoptosis and myelination via GABA <sub>B</sub> receptor	<b>L. Fang</b> <sup>1</sup> , L. Caudal <sup>1</sup> , R. Zhao <sup>2</sup> , C. - H. Lin <sup>3</sup> , H. - F. Chang <sup>3</sup> , S. Bachet <sup>1</sup> , N. Heinz <sup>4</sup> , C. Meier <sup>4</sup> , W. Huang <sup>1</sup> , A. Scheller <sup>1</sup> , F. Kirchhoff <sup>1</sup> , X. Bai <sup>1</sup>	<sup>1</sup> University of Saarland, Molecular Physiology, CIPMM, Homburg, Saarland, Germany <sup>2</sup> University of Saarland, Biophysics, CIPMM, Homburg, Saarland, Germany <sup>3</sup> University of Saarland, Cellular Physiology, CIPMM, Homburg, Saarland, Germany <sup>4</sup> University of Saarland, Department of Anatomy and Cell biology, Homburg, Saarland, Germany
T09-050C	522	T09	Glial-neuronal interactions	SHH-signaling as an intermediary between retinal inputs and astrocytes for the recruitment of GABAergic interneurons	<b>R. D. Somaiya</b> <sup>1,2</sup> , M. A. Fox <sup>1,3,4</sup>	<sup>1</sup> Fralin Biomedical Research Institute at Virginia Tech Carilion, Center for Neurobiology Research, Roanoke, Virginia, United States of America <sup>2</sup> Virginia Tech, Graduate Program in Translational Biology, Medicine, and Health, Blacksburg, Virginia, United States of America <sup>3</sup> Virginia Tech, School of Neuroscience, Blacksburg, Virginia, United States of America <sup>4</sup> Virginia Tech Carilion School of Medicine, Department of Pediatrics, Roanoke, Virginia, United States of America
T09-051C	532	T09	Glial-neuronal interactions	Cuprizone-demyelination alters the number and location of neurons that form synaptic connections with oligodendrocyte progenitor cells	<b>B. S. Summers</b> <sup>1</sup> , C. Blizzard <sup>1</sup> , B. Sutherland <sup>2</sup> , B. Dempsey <sup>3</sup> , S. McMullan <sup>4</sup> , C. Cullen <sup>1</sup> , K. Young <sup>1</sup>	<sup>1</sup> University of Tasmania, Menzies Institute for Medical Research, Hobart, Australia <sup>2</sup> University of Tasmania, School of Medicine, Hobart, Australia <sup>3</sup> Institut de Biologie de l'École Normale Supérieure, Paris, France <sup>4</sup> Macquarie University, Faculty of Medicine, Health & Human Sciences, Sydney, Australia
T09-052C	564	T09	Glial-neuronal interactions	Glial Synaptobrevin mediates peripheral nerve insulation, neural metabolic supply and is required for motor function	<b>M. Böhme</b> <sup>1,2</sup> , A. McCarthy <sup>1</sup> , N. Blaum <sup>1</sup> , M. Berezeckaja <sup>1</sup> , K. Ponimaskine <sup>1</sup> , D. Schwefel <sup>3</sup> , A. M. Walter <sup>1,2</sup>	<sup>1</sup> Leibniz-Forschungsinstitut für Molekulare Pharmakologie, Berlin, Germany <sup>2</sup> University of Copenhagen, Department of Neuroscience, Copenhagen, Denmark <sup>3</sup> Charité – Universitätsmedizin Berlin, Institute of Medical Physics and Biophysics, Berlin, Germany
T09-053C	566	T09	Glial-neuronal interactions	Lactate metabolism in the control of microglial function	<b>K. Monsorno</b> <sup>1</sup> , K. Ginggen <sup>1</sup> , A. Lalive <sup>2</sup> , A. Tchenio <sup>2</sup> , L. Pellerin <sup>3</sup> , M. Mameli <sup>2</sup> , R. C. Paolicelli <sup>1</sup>	<sup>1</sup> University of Lausanne, Department of Biomedical Sciences, Lausanne, Vaud, Switzerland <sup>2</sup> University of Lausanne, Department of Fundamental Neurosciences, Lausanne, Vaud, Switzerland <sup>3</sup> University of Poitiers, Inserm U11082, Poitiers, France
T09-054D	567	T09	Glial-neuronal interactions	Parkinson's disease-associated LRRK2-G2019S mutation disrupts glia-neuron crosstalk and impairs dopaminergic neurodevelopment	<b>C. Giachino</b> <sup>1,2</sup> , F. L'Episcopo <sup>1</sup> , C. Tirolo <sup>1</sup> , S. Caniglia <sup>1</sup> , M. F. Serapide <sup>2</sup> , C. Giuliano <sup>3</sup> , M. Deleidi <sup>3,4</sup> , B. M. Marchetti <sup>1,2</sup>	<sup>1</sup> OASI-IRCCS, Neuropharmacology Section, Troina, Italy <sup>2</sup> University of Catania, Biomedical and Biotechnological Sciences, Catania, Italy <sup>3</sup> University of Tübingen, Mitochondria and Inflammation in Neurodegenerative Diseases, DZNE, Tübingen, Germany <sup>4</sup> University of Tübingen, Hertie Institute for Clinical Brain Research, Tübingen, Germany

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T09-055D	574	T09	Glial-neuronal interactions	Aging induces morphofunctional remodeling of astrocytes and reduces LTP in the mouse hippocampus	<b>A. Popov</b> <sup>1,2</sup> , O. Sutyagina <sup>1,2</sup> , A. Brazhe <sup>1,3</sup> , L. Li <sup>6</sup> , A. Verkhatsky <sup>4,5</sup> , A. Semyanov <sup>1,3,6</sup>	<sup>1</sup> Shemyakin-Ovchinnikov Institute of Bioorganic Chemistry, Russian Academy of Sciences, Laboratory of Extrasynaptic Signalling, Moscow, Russian Federation <sup>2</sup> University of Nizhnij Novgorod, Institute of neuroscience, Nizhnij Novgorod, Russian Federation <sup>3</sup> Moscow State University, Faculty of Biology, Moscow, Russian Federation <sup>4</sup> The University of Manchester, Faculty of Biology, Medicine and Health, Manchester, United Kingdom <sup>5</sup> Basque Foundation for Science, Achucarro Center for Neuroscience, Bilbao, Spain <sup>6</sup> University College of Medicine, Department of Physiology, Zhejiang, China
T09-056D	582	T09	Glial-neuronal interactions	Schwann cell plasticity regulates neuroblastic tumor cell differentiation via epidermal growth factor-like protein 8	<b>T. Weiss</b> <sup>1,2</sup> , S. Taschner-Mandl <sup>2</sup> , L. Janker <sup>3,4</sup> , A. Bileck <sup>3,4</sup> , F. Rifatbegovic <sup>2</sup> , H. Sorger <sup>2</sup> , M. O. Kauer <sup>2</sup> , C. Frech <sup>2</sup> , F. Kromp <sup>2</sup> , R. Windhager <sup>5</sup> , C. Gerner <sup>3,4</sup> , P. F. Ambros <sup>2,6</sup> , I. M. Ambros <sup>2</sup>	<sup>1</sup> Medical University of Vienna, Department of Plastic and Reconstructive Surgery, Vienna, Wien, Austria <sup>2</sup> St. Anna Children's Cancer Research Institute (CCRI), Tumor Biology, Vienna, Wien, Austria <sup>3</sup> University of Vienna, Department of Analytical Chemistry, Vienna, Wien, Austria <sup>4</sup> University of Vienna & Medical University of Vienna, Joint Metabolome Facility, Vienna, Wien, Austria <sup>5</sup> Medical University of Vienna, Department of Orthopedic Surgery, Vienna, Wien, Austria <sup>6</sup> Medical University of Vienna, Department of Pediatrics, Vienna, Wien, Austria
T09-057D	584	T09	Glial-neuronal interactions	Dendritic ATP release from mouse olfactory bulb granule cells induces Ca <sup>2+</sup> transients in astrocytes	<b>A. B. Beiersdorfer</b> <sup>1</sup> , D. Droste <sup>1</sup> , K. Losse <sup>1</sup> , J. S. Popp <sup>1</sup> , C. Lohr <sup>1</sup>	<sup>1</sup> University of Hamburg, Division of Neurophysiology, Hamburg, Hamburg, Germany
T09-058D	597	T09	Glial-neuronal interactions	Regulation of microglia morphodynamics by neuronal activity in the somatosensory cortex	<b>M. Robert</b> <sup>1,2,3</sup> , J. - C. Comte <sup>2,5</sup> , E. Wayere <sup>1</sup> , J. Honnorat <sup>1,3,4</sup> , O. Pascual <sup>1,2</sup>	<sup>1</sup> Synaptopathies and Autoantibodies (SynatAc) Team, NeuroMyoGene Institute (INMG), Lyon, France <sup>2</sup> Claude Bernard University Lyon 1, Villeurbanne, France <sup>3</sup> Department of Neuro-Oncology, Hospital for Neurology and Neurosurgery Pierre Wertheimer, Hospices Civils de Lyon (HCL), Bron, France <sup>4</sup> French Reference Center for Paraneoplastic Neurological Syndromes, Hospital for Neurology and Neurosurgery Pierre Wertheimer, Hospices Civils de Lyon (HCL), Bron, France <sup>5</sup> Forgetting Team, Lyon Neuroscience Research Center (CRNL), Bron, France
T09-059D	618	T09	Glial-neuronal interactions	A $\beta$ -dependent GLT1 expression as neuron-glia marker for the multistage progression of Alzheimer's disease	<b>G. Bonifazi</b> <sup>1,2</sup> , C. Luchena <sup>2,3,4</sup> , A. Gaminde-Blasco <sup>2,3,4</sup> , C. Ortiz-Sanz <sup>2,3,4</sup> , E. Capetillo-Zárate <sup>2,3,4</sup> , C. Matute <sup>2,3,4</sup> , E. Alberdi <sup>2,3,4</sup> , M. De Pittà <sup>1,5</sup>	<sup>1</sup> Basque Center for Applied Mathematics, Bilbao, Spain <sup>2</sup> University of the Basque Country (UPV/EHU), Department of Neurosciences, Leioa, Spain <sup>3</sup> Centro de Investigación Biomédica en Red en Enfermedades Neurodegenerativas (CIBERNED), Leioa, Spain <sup>4</sup> Achucarro Basque Center for Neuroscience, Leioa, Spain <sup>5</sup> 'la Caixa' Banking Foundation, Junior Leader Fellowship Program, Barcelona, Spain

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T09-060D	624	T09	Glial-neuronal interactions	Necroptosis and microglial phagocytosis of extracellular vesicles as an early mechanism involved in the disruption of afferent synaptic terminals on spinal cord motor neurons after acute peripheral nerve injury	<b>S. Salvany</b> <sup>1</sup> , A. Casanovas <sup>1</sup> , L. Piedrafita <sup>1</sup> , S. Gras <sup>2</sup> , A. Blasco <sup>2</sup> , A. Gatusi <sup>1</sup> , O. Tarabal <sup>1</sup> , S. Hernández <sup>1</sup> , J. Calderó <sup>1</sup> , J. E. Esquerda <sup>1</sup>	<sup>1</sup> Universitat de Lleida, Departament de Medicina Experimental/Grup de Patologia Neuromuscular Experimental/Facultat de Medicina, Lleida, Spain <sup>2</sup> IRBLleida, Lleida, Spain
T09-061D	637	T09	Glial-neuronal interactions	Determination of M1 and M2 polarized microglia-derived exosomal microRNAs that influence neural stem cell differentiation	<b>C. Kiser</b> <sup>1,2</sup> , C. P. Gonul <sup>1,2</sup> , D. Engur <sup>1,3</sup> , S. Cilaker Micili <sup>4</sup> , A. Kumral <sup>2,5</sup> , S. Genc <sup>1,2,6</sup>	<sup>1</sup> Dokuz Eylul University, Izmir Biomedicine and Genome Institute, Izmir, Turkey <sup>2</sup> Izmir Biomedicine and Genome Center, Basic and Translational Research Program, Izmir, Turkey <sup>3</sup> Tepecik Training and Research Hospital, Department of Neonatology, Izmir, Turkey <sup>4</sup> Dokuz Eylul University, Faculty of Medicine, Basic Health Sciences, Histology and Embryology, Izmir, Turkey <sup>5</sup> Dokuz Eylul University, Faculty of Medicine, Internal Medicine, Department of Pediatrics, Izmir, Turkey <sup>6</sup> Dokuz Eylul University, Health Science Institute, Department of Neuroscience, Izmir, Turkey
T09-062D	644	T09	Glial-neuronal interactions	Astroglial GABA <sub>B</sub> receptor deletion attenuates epileptic network function <i>in vivo</i>	<b>L. C. Caudal</b> <sup>1</sup> , G. Stopper <sup>1</sup> , M. Schweigmann <sup>1,2</sup> , A. Scheller <sup>1</sup> , F. Kirchhoff <sup>1</sup>	<sup>1</sup> University of Saarland, Department of Molecular Physiology, CIPMM, Homburg, Saarland, Germany <sup>2</sup> Trier University of Applied Sciences, Department of Electrical Engineering, Trier, Rhineland-Palatinate, Germany
T09-063D	649	T09	Glial-neuronal interactions	Dual effect of A1R and A2AR upon CB1R signalling in cortical astrocytes: Ca <sup>2+</sup> dependent modulation of glutamate transporters	J. Gonçalves-Ribeiro <sup>1,2</sup> , O. Savchak <sup>1,2</sup> , T. P. Morais <sup>3</sup> , R. F. Lopes <sup>4</sup> , C. Meneses <sup>4</sup> , R. Santisteban <sup>5</sup> , A. Lillo <sup>5</sup> , V. Crunelli <sup>3</sup> , G. Navarro-Brugal <sup>5</sup> , R. Franco <sup>5</sup> , A. M. Sebastião <sup>1,2</sup> , <b>S. Vaz</b> <sup>1,2</sup>	<sup>1</sup> IMM, Universidade de Lisboa, Lisboa, Portugal <sup>2</sup> FMUL, Universidade de Lisboa, Lisboa, Portugal <sup>3</sup> Cardiff University, Cardiff, United Kingdom <sup>4</sup> Inst. Superior de Engenharia de Lisboa, Lisboa, Portugal <sup>5</sup> Universitat de Barcelona, Barcelona, Spain
T09-064D	651	T09	Glial-neuronal interactions	Fast astrocytic calcium signals are revealed by high-frequency imaging during epileptiform activity	<b>Z. Szabo</b> <sup>1</sup> , J. Kardos <sup>1</sup> , L. Héja <sup>1</sup>	<sup>1</sup> Research Centre for Natural Sciences, Institute of Organic Chemistry, Budapest, Hungary
T09-065D	692	T09	Glial-neuronal interactions	Morphological changes of astrocytes induced by olfactory enrichment	<b>N. Rotermund</b> <sup>1</sup> , E. Bilgin <sup>1</sup> , D. Mulder <sup>1</sup> , C. Lohr <sup>1</sup>	<sup>1</sup> University of Hamburg, Institute of Zoology, Neurophysiology, Hamburg, Germany
T09-066D	695	T09	Glial-neuronal interactions	SREBP2 delivery to striatal astrocytes normalizes transcription of cholesterol biosynthesis genes and ameliorates pathological features in Huntington's Disease	<b>G. Birolini</b> <sup>1,2</sup> , G. Verlengia <sup>3,4</sup> , F. Talpo <sup>5</sup> , C. Maniezzi <sup>5</sup> , L. Zentilin <sup>6</sup> , M. Giacca <sup>6</sup> , P. Conforti <sup>1,2</sup> , C. Cordiglieri <sup>2</sup> , C. Caccia <sup>8</sup> , V. Leoni <sup>9</sup> , F. Taroni <sup>8</sup> , G. Biella <sup>5</sup> , M. Simonato <sup>3,4</sup> , E. Cattaneo <sup>1,2</sup> , M. Valenza <sup>1,2</sup>	<sup>1</sup> University of Milan, Dep. Biosciences, Milan, Italy <sup>2</sup> INGM, Milan, Italy <sup>3</sup> University of San Raffaele, School of Medicine, Milan, Italy <sup>4</sup> University of Ferrara, Dep. BioMedical Sciences, Ferrara, Italy <sup>5</sup> University of Pavia, Dep. Biology and Biotechnologies, Pavia, Italy <sup>6</sup> ICGB, Trieste, Italy <sup>7</sup> Besta Institute, Unit of Medical Genetics and Neurogenetics, Milan, Italy <sup>8</sup> University of Milano-Bicocca, School of Medicine and Surgery, Monza, Italy
T09-067D	699	T09	Glial-neuronal interactions	Role of astrocytic signaling in excitatory synapse maturation: implications for neurodevelopmental disorders	<b>C. Agulhon</b> <sup>1</sup> , B. Rubino <sup>1</sup>	<sup>1</sup> Université de Paris, CNRS UMR 8002 –Glia-Glia & Glia-Neurons Interactions Group - Integrative Neuroscience and Cognition Center, Paris, France

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T09-068D	706	T09	Glial-neuronal interactions	Uncovering the transcriptional landscape of astrocytes highlights glial actin dynamics as important for neuronal remodeling	<b>N. Marmor-Kollet</b> <sup>1</sup> , V. Berkun <sup>1</sup> , G. Cummings <sup>1</sup> , H. Keren-Shaul <sup>2</sup> , I. Amit <sup>3</sup> , O. Schuldiner <sup>1</sup>	<sup>1</sup> Weizmann Institute of Science, Molecular Cell Biology, Rehovot, Israel <sup>2</sup> Weizmann Institute of Science, Life Sciences Core Facilities, Rehovot, Israel <sup>3</sup> Weizmann Institute of Science, Immunology, Rehovot, Israel
T09-069D	718	T09	Glial-neuronal interactions	Characterising the functional role of the myelinic channel	<b>K. J. Chapple</b> <sup>1</sup> , C. L. Crawford <sup>1</sup> , M. Euston <sup>1</sup> , C. M. Kassmann <sup>2</sup> , K. - A. Nave <sup>2</sup> , J. M. Edgar <sup>1,2</sup>	<sup>1</sup> University of Glasgow, Institute of Infection, Immunity & Inflammation, Glasgow, United Kingdom <sup>2</sup> Max Planck Institute of Experimental Medicine, Department of Neurogenetics, Göttingen, Germany
T09-070D	722	T09	Glial-neuronal interactions	The Role of Neuronal NIPP1 in Mediating Neuron-Oligodendrocyte Signaling to Promote Myelin Biogenesis	<b>C. McKee</b> <sup>1</sup> , H. Hou <sup>1</sup> , A. Mazumder <sup>1</sup> , P. Shrager <sup>1</sup> , A. Ganguly <sup>1</sup> , N. Ward <sup>1</sup> , L. Winschel <sup>1</sup> , C. Tang <sup>1</sup> , K. Foley <sup>1</sup> , M. Bollen <sup>2</sup> , H. Xia <sup>1</sup>	<sup>1</sup> University of Rochester, Rochester, New York, United States of America <sup>2</sup> KU Leuven, Leuven, Belgium
T09-071E	724	T09	Glial-neuronal interactions	Ceruloplasmin deficiency is associated with proteomic changes of oligodendrocytes and neurons in absence of overt changes of myelin and myelinating cells in mice	<b>B. Villadsen</b> <sup>1,2</sup> , C. Thygesen <sup>1,2,3</sup> , M. Grebing <sup>1,2</sup> , S. Kempf <sup>3</sup> , H. H. Nielsen <sup>2,4</sup> , M. R. Larsen <sup>3</sup> , B. Finsen <sup>1,2</sup>	<sup>1</sup> University of Southern Denmark, Department of Neurobiology, Institute of Molecular Medicine, Odense, Denmark <sup>2</sup> University of Southern Denmark, BRIDGE - Brain Research - Inter-Disciplinary Guided Excellence, Department of Clinical Research, Odense, Denmark <sup>3</sup> University of Southern Denmark, Department of Biochemistry and Molecular Biology, Odense, Denmark <sup>4</sup> Odense University Hospital Odense, Denmark, Department of Neurology, Odense, Denmark
T09-072E	726	T09	Glial-neuronal interactions	The role of potassium in axon-glia signaling and metabolic coupling	<b>Z. J. Looser</b> <sup>1</sup> , L. Ravotto <sup>1</sup> , F. Barros <sup>2</sup> , D. E. Bergles <sup>5</sup> , J. Hirrlinger <sup>3,4</sup> , W. Möbius <sup>3,4</sup> , K. - A. Nave <sup>3</sup> , B. Weber <sup>1</sup> , A. S. Saab <sup>1</sup>	<sup>1</sup> University of Zurich, Institute of Pharmacology and Toxicology, Zürich, Zürich, Switzerland <sup>2</sup> Centro de Estudios Científicos, Valdivia, Chile <sup>3</sup> Max Planck Institute of Experimental Medicine, Department of Neurogenetics, Goettingen, Germany <sup>4</sup> University of Leipzig, Carl-Ludwig-Institute for Physiology, Leipzig, Germany <sup>5</sup> Johns Hopkins University School of Medicine, The Solomon H. Snyder Department of Neuroscience, Baltimore, United States of America
T09-073E	729	T09	Glial-neuronal interactions	Postnatal expression of the AQP4, TRPV4 and Cx43 in the CNS: potential differences between Muller cells and astrocytes	A. Cibelli <sup>1</sup> , M. G. Mola <sup>2</sup> , B. Barile <sup>2</sup> , E. Saracino <sup>3</sup> , A. Frigeri <sup>4</sup> , V. Benfenati <sup>3</sup> , <b>G. P. Nicchia</b> <sup>2,1</sup>	<sup>1</sup> Department of Neuroscience, Albert Einstein College of Medicine, Yeshiva University, New York, New York, United States of America <sup>2</sup> Department of Bioscience, Biotechnology and Biopharmaceutics, University of Bari Aldo Moro, Bari, Italy <sup>3</sup> Institute for the Organic Synthesis and Photoreactivity, National Research Council of Italy, Bologna, Italy <sup>4</sup> School of Medicine, Dept of Basic Medical Sciences, Neuroscience and Sense Organs, University of Bari Aldo Moro, Bari, Italy
T09-074E	741	T09	Glial-neuronal interactions	Microglial and neurogenic alterations in hypothalamus due to acute stress	<b>M. I. Infantes López</b> <sup>1</sup> , A. Nieto-Quero <sup>2,3</sup> , E. Zambrana-Infantes <sup>2</sup> , P. Chaves-Peña <sup>2</sup> , S. Tabbai <sup>2</sup> , C. Pedraza <sup>2,3</sup> , M. Pérez-Martín <sup>1,3</sup>	<sup>1</sup> University of Malaga, Department of Cell Biology, Genetics and Physiology, Faculty of Science, Malaga, Spain <sup>2</sup> University of Malaga, Department of Psychobiology, Faculty of Psychology, Malaga, Spain <sup>3</sup> Biomedical Research Institute of Malaga (IBIMA), Malaga, Spain
T09-075E	751	T09	Glial-neuronal interactions	Modulation of L-lactate release by astrocytic GABA <sub>B</sub> receptors and cyclic AMP signalling <i>in vitro</i>	J. Moller-Clarke <sup>1</sup> , B. Vaccari Cardoso <sup>1</sup> , S. Kasparov <sup>1</sup> , <b>A. G. Teschemacher</b> <sup>1</sup>	<sup>1</sup> University of Bristol, School of Physiology, Pharmacology & Neuroscience, Bristol, United Kingdom

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T09-076E	753	T09	Glial-neuronal interactions	Characterization of microglia and synapses in the early brain of an AD mouse model	<b>K. Ginggen</b> <sup>1</sup> , R. C. Paolicelli <sup>1</sup>	<sup>1</sup> University of Lausanne, Department of Biomedicale sciences, Lausanne, Vaud, Switzerland
T09-077E	766	T09	Glial-neuronal interactions	Sensory glia detect repulsive odorants and drive olfactory adaptation	D. Duan <sup>1</sup> , H. Zhang <sup>1</sup> , X. Yue <sup>1</sup> , Y. Fan <sup>1</sup> , H. Cheng <sup>1</sup> , D. Chen <sup>1</sup> , S. Duan <sup>1</sup> , <b>L. Kang</b> <sup>1</sup>	<sup>1</sup> Zhejiang University, Department of Neurobiology, School of Medicine, Hangzhou, China
T09-078E	787	T09	Glial-neuronal interactions	Astrocyte Expression of Synapse-regulating Genes is Developmentally Controlled by Neuronal and Astrocyte Activity	<b>I. Farhy-Tselnicker</b> <sup>1,6</sup> , M. M. Boisvert <sup>1,7</sup> , H. Liu <sup>2</sup> , C. Dowling <sup>1</sup> , G. A. Erikson <sup>3</sup> , E. Blanco-Suarez <sup>1,8</sup> , C. Farhy <sup>5</sup> , M. Shokhirev <sup>3</sup> , J. R. Ecker <sup>2,4</sup> , N. J. Allen <sup>1</sup>	<sup>1</sup> The Salk Institute for Biological Studies, Molecular Neurobiology laboratory, La Jolla, California, United States of America <sup>2</sup> The Salk Institute for Biological Studies, Genomic Analysis Laboratory, La Jolla, California, United States of America <sup>3</sup> The Salk Institute for Biological Studies, Razavi Newman Integrative Genomics and Bioinformatics Core, La Jolla, California, United States of America <sup>4</sup> The Salk Institute for Biological Studies, Howard Hughes Medical Institute, La Jolla, California, United States of America <sup>5</sup> Sanford Burnham Prebys Medical Discovery Institute, La Jolla, California, United States of America <sup>6</sup> Texas A&M University, Department of Biology, College Station, Texas, United States of America <sup>7</sup> Oregon Health and Science University, Jungers Center for Neuroscience Research, Department of Neurology, Portland, Oregon, United States of America <sup>8</sup> Thomas Jefferson University Hospital for Neuroscience, Department of Neurosurgery, Philadelphia, Pennsylvania, United States of America
T09-079E	792	T09	Glial-neuronal interactions	Mechanisms of cerebellar microglial dynamics	<b>M. B. Stoessel</b> <sup>1,2</sup> , R. D. Stowell <sup>1</sup> , A. K. Majweska <sup>1</sup>	<sup>1</sup> University of Rochester, Department of Neuroscience, Rochester, New York, United States of America <sup>2</sup> University of Rochester, Neuroscience Graduate Program, Rochester, New York, United States of America
T09-080E	802	T09	Glial-neuronal interactions	Fast voltage fluctuations in cortical astrocyte microdomains shape glutamatergic neurotransmission.	<b>S. Naskar</b> <sup>1</sup> , M. Armbruster <sup>1</sup> , C. Dulla <sup>1</sup>	<sup>1</sup> Tufts University School of Medicine, Department of Neuroscience, Boston, Massachusetts, United States of America
T09-081E	806	T09	Glial-neuronal interactions	Role of astrocytic GABA <sub>B</sub> receptors on $\gamma$ -hydroxybutyric acid-induced absence seizures	<b>D. Gobbo</b> <sup>1</sup> , A. Scheller <sup>1</sup> , F. Kirchhoff <sup>1</sup>	<sup>1</sup> University of Saarland, Molecular Physiology, CIPMM, Center for Integrative Physiology and Molecular Medicine, Homburg, Saarland, Germany
T09-082E	809	T09	Glial-neuronal interactions	Gestational 2,3,7,8-Tetrachlorodibenzo- <i>p</i> -dioxin Exposure Induces Long-lasting Defects in Microglial Function	<b>R. Lowery</b> <sup>1</sup> , S. Latchney <sup>1</sup> , R. Peer <sup>1</sup> , C. Lamantia <sup>1</sup> , K. Wright <sup>1</sup> , L. Opanashuk <sup>2</sup> , M. McCall <sup>3,4</sup> , A. Majewska <sup>1</sup>	<sup>1</sup> University of Rochester, Department of Neuroscience, Rochester, New York, United States of America <sup>2</sup> National Institute on Aging, Bethesda, Maryland, United States of America <sup>3</sup> University of Rochester, Department of Biostatistics and Computational Biology, Rochester, New York, United States of America <sup>4</sup> University of Rochester, Department of Biomedical Genetics, Rochester, New York, United States of America
T09-083E	823	T09	Glial-neuronal interactions	Astrocytic modulation of cortical synaptic plasticity: Integrating biological knowledge and computational modeling	T. Manninen <sup>1</sup> , A. Saudargiene <sup>2,3</sup> , <b>M. - L. Linne</b> <sup>1</sup>	<sup>1</sup> Tampere University, Faculty of Medicine and Health Technology, Tampere, Finland <sup>2</sup> Lithuanian University of Health Sciences, Neuroscience Institute, Kaunas, Lithuania <sup>3</sup> Vytautas Magnus University, Department of Informatics, Kaunas, Lithuania

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T09-084E	828	T09	Glial-neuronal interactions	Neuron-glia co-culture models of cell type specific lipid perturbations relevant to Parkinson's disease and Lewy body pathobiology	<b>R. Thomas</b> <sup>1</sup> , O. J. Cooper <sup>1</sup> , P. J. Hallett <sup>1</sup> , O. Isacson <sup>1</sup>	<sup>1</sup> McLean Hospital/ Harvard Medical School, Neuroregeneration Institute, Belmont, Massachusetts, United States of America
T09-085E	856	T09	Glial-neuronal interactions	Astrocytes-derived Extracellular Vesicles in motion at the neuron surface: involvement of the prion protein	<b>G. D'Arrigo</b> <sup>1</sup> , M. Gabrielli <sup>1</sup> , F. Scaroni <sup>1</sup> , L. Amin <sup>2</sup> , D. Cojoc <sup>3</sup> , G. Legname <sup>2</sup> , C. Verderio <sup>1</sup>	<sup>1</sup> National Research Council of Italy, Institute of Neuroscience, Veduggio al Lambro (MB), Italy <sup>2</sup> International School for Advanced Studies, Department of Neuroscience, Trieste, Italy <sup>3</sup> National Research Council of Italy, Institute of Materials, Trieste, Italy
T09-086E	881	T09	Glial-neuronal interactions	Efficient oligodendrogenesis and remyelination are neuroprotective	<b>G. Duncan</b> <sup>1</sup> , M. McCane <sup>1</sup> , J. Hill <sup>2</sup> , S. Alper <sup>1</sup> , B. Stedelin <sup>1</sup> , B. Emery <sup>1</sup>	<sup>1</sup> Oregon Health and Science University, Department of Neurology / Jungers Center for Neurosciences Research, Portland, Oregon, United States of America <sup>2</sup> Oregon Health and Science University, School of Medicine, Portland, Oregon, United States of America
T09-087E	889	T09	Glial-neuronal interactions	Astrocytic modulation of neuronal rhythmicity through K+ uptake in the spinal locomotor network.	E. Pecchi <sup>1</sup> , M. Ducrocq <sup>1</sup> , <b>R. Bos</b> <sup>1</sup>	<sup>1</sup> CNRS Aix-Marseille University, Institut des Neurosciences de la Timone UMR7289, MARSEILLE, France
T10-001A	45	T10	Ischemia and hypoxia	The role of IKKb, SRC and RIPK kinases in the adaptation of neuron-glia networks to hypoxia in vitro	<b>M. Loginova</b> <sup>1</sup> , T. Mishchenko <sup>1</sup> , M. Vedunova <sup>1</sup> , E. Mitroshina <sup>1</sup>	<sup>1</sup> Lobachevsky University, Institute of Biology and Biomedicine, Nizhny Novgorod, Russian Federation
T10-002A	61	T10	Ischemia and hypoxia	Astrocytic volume regulation - contribution of Aquaporin 4 and Transient Receptor Potential Vanilloid 4	<b>Z. Heřmanová</b> <sup>1,2</sup> , J. Kriska <sup>1</sup> , L. Valihrach <sup>3</sup> , T. Knotek <sup>1,2</sup> , M. Anderova <sup>1,2</sup>	<sup>1</sup> Institute of Experimental Medicine CAS, Dpt. of Cellular Neurophysiology, Prague, Czech Republic <sup>2</sup> Charles University, Second Faculty of Medicine, Prague, Czech Republic <sup>3</sup> Institute of Biotechnology CAS, Laboratory of Gene Expression, Vestec, Czech Republic
T10-003A	167	T10	Ischemia and hypoxia	How neonatal macroglia respond to in vitro model of hypoxic ischemic insult?	<b>J. M. Gargas</b> <sup>1</sup> , J. Janowska <sup>1</sup> , M. Ziemka-Nalecz <sup>1</sup> , A. Boratynska-Jasinska <sup>2</sup> , B. Zablocka <sup>2</sup> , J. Sypecka <sup>1</sup>	<sup>1</sup> Polish Academy of Sciences, NeuroRepair Department, Mossakowski Medical Research Institute, Warsaw, Poland <sup>2</sup> Polish Academy of Sciences, Molecular Biology Unit, Mossakowski Medical Research Institute, Warsaw, Poland
T10-004A	202	T10	Ischemia and hypoxia	Ghrelin receptor agonism protects neurons and astrocytes from excitotoxicity: looking for possible mechanisms-of-action.	<b>A. Buckinx</b> <sup>1</sup> , J. Bossuyt <sup>1</sup> , F. Legroux <sup>1</sup> , D. De Bunde <sup>1</sup> , R. Kooijman <sup>1</sup> , I. Smolders <sup>1</sup>	<sup>1</sup> Vrije Universiteit Brussel, Department of Pharmaceutical Chemistry, Drug Analysis and Drug Information, Brussels, Belgium
T10-005A	216	T10	Ischemia and hypoxia	Role of the neuropeptide cortistatin in neuro-immune dysregulation and blood-brain barrier dysfunction during ischemic stroke	<b>J. Castillo González</b> <sup>1</sup> , A. Ubago-Rodríguez <sup>1</sup> , M. Caro <sup>1</sup> , I. Forte-Lago <sup>1</sup> , L. Buscemi <sup>2,3</sup> , P. Hernández-Cortés <sup>4</sup> , L. Hirt <sup>2,3</sup> , E. González-Rey <sup>1</sup>	<sup>1</sup> Spanish Research Council-Institute of Parasitology and Biomedicine (IPBLN-CSIC), Dept Cell Biology and Immunology, Armilla (Granada), Spain <sup>2</sup> Centre hospitalier universitaire vaudois (CHUV), Service of Neurology, Lausanne, Switzerland <sup>3</sup> University of Lausanne (UNIL), Department of Fundamental Neurosciences, Lausanne, Switzerland <sup>4</sup> University of Granada, School of Medicine, Granada, Spain
T10-006A	225	T10	Ischemia and hypoxia	Does oligodendrocyte progenitor cell's fate go one direction? An impact of neonatal hypoxia – ischemia. What goes right and what goes wrong.	<b>J. Janowska</b> <sup>1</sup> , J. Gargas <sup>1</sup> , K. Ziabska <sup>1</sup> , P. Pawelec <sup>1</sup> , H. Kozłowska <sup>2</sup> , M. Nalecz <sup>1</sup> , J. Sypecka <sup>1</sup>	<sup>1</sup> Mossakowski Medical Research Institute PAS, NeuroRepair Department, Warsaw, Poland <sup>2</sup> Mossakowski Medical Research Institute PAS, Laboratory of Advanced Microscopy Techniques, Warsaw, Poland
T10-007B	550	T10	Ischemia and hypoxia	The role of astrocytic p75 neurotrophin receptor on the blood-brain barrier disruption after ischemic stroke.	X. Qin <sup>1</sup> , J. Wang <sup>1</sup> , S. Chen <sup>1</sup> , G. Liu <sup>1</sup> , <b>C. Wu</b> <sup>1</sup> , Q. Lv <sup>1</sup> , X. He <sup>1</sup> , W. Huang <sup>2</sup> , H. Liao <sup>1</sup>	<sup>1</sup> China Pharmaceutical University, Nanjing, China <sup>2</sup> University of Saarland, Homburg, Germany

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T10-008B	553	T10	Ischemia and hypoxia	Endo-lysosomal pathway disruption drives microglial phagocytosis dysfunction in stroke	<b>V. Sierra De la Torre</b> <sup>1,2</sup> , A. Plaza-Zabala <sup>1,2</sup> , S. Beccari <sup>1,2</sup> , P. Huget-Rodriguez <sup>2</sup> , M. García Zaballa <sup>2</sup> , E. Capetillo-Zarate <sup>1,2,3</sup> , A. Carretero-Guillén <sup>1</sup> , F. N. Soria <sup>1,2</sup> , J. Valero <sup>1,2</sup> , A. Sierra <sup>1,2,3</sup>	<sup>1</sup> Achucarro Basque Center for Neuroscience, Leioa, Spain <sup>2</sup> University of the Basque Country, Leioa, Spain <sup>3</sup> Ikerbasque Foundation, Bilbao, Spain
T10-009B	583	T10	Ischemia and hypoxia	Subventricular zone gliogenesis after stroke	<b>M. I. Ardaya Franco</b> <sup>1,2,3</sup> , F. N. Soria <sup>1,2,3</sup> , C. Matute <sup>1,2,3</sup> , F. Cavaliere <sup>1,2,3</sup>	<sup>1</sup> Achucarro Basque Center for Neuroscience, Neuroscience, Leioa, Spain <sup>2</sup> University of the Basque Country (UPV/EHU), Laboratory of Neurobiology, Leioa, Spain <sup>3</sup> ISCIII Instituto de Salud Carlos III, Madrid, Spain
T10-010B	691	T10	Ischemia and hypoxia	The Renin-Angiotensin-Aldosterone System modulates astrocytes and their crosstalk with microglia and neurons	<b>D. N. Olschewski</b> <sup>1</sup> , F. Lange <sup>1</sup> , C. Kulka <sup>1</sup> , N. Nazarzadeh <sup>1</sup> , S. Blaschke <sup>1,2</sup> , J. - A. Abraham <sup>1,3</sup> , R. Merkel <sup>3</sup> , B. Hoffmann <sup>3</sup> , M. Schroeter <sup>1,2</sup> , G. R. Fink <sup>1,2</sup> , M. A. Rueger <sup>1,2</sup> , S. U. Vay <sup>1</sup>	<sup>1</sup> Department of Neurology, University of Cologne, Faculty of Medicine and University Hospital Cologne, Cologne, Germany <sup>2</sup> Cognitive Neuroscience, Institute of Neuroscience and Medicine (INM-3), Research Centre Juelich, Juelich, Germany <sup>3</sup> Department of Mechanobiology, Institute of Biological Information Processing (IBI-2), Research Centre Juelich, Juelich, Germany
T10-011B	705	T10	Ischemia and hypoxia	Decreased exercise induced intramuscular blood flow in patients with neuropathy: quantification by power Doppler	<b>O. Gera</b> <sup>1,2</sup> , E. Shavit <sup>1,3</sup> , J. Chapman <sup>1,3</sup> , A. Dori <sup>1,3</sup>	<sup>1</sup> Sheba Hospital, Neurology, Ramat Gan, Israel <sup>2</sup> Tel Aviv university, physical Therapy, Tel Aviv, Israel <sup>3</sup> Tel Aviv university, Sackler Faculty of Medicine, Tel-Aviv, Israel
T10-012B	759	T10	Ischemia and hypoxia	Exploring differential sensitivity of ischemia at the tripartite synapse with a mathematical model	<b>M. Kalia</b> <sup>1</sup> , H. G. Meijer <sup>1</sup> , S. A. van Gils <sup>1</sup> , M. J. van Putten <sup>2</sup> , C. R. Rose <sup>3</sup>	<sup>1</sup> University of Twente, Applied Mathematics, Enschede, Netherlands <sup>2</sup> University of Twente, Clinical Neurophysiology, Enschede, Netherlands <sup>3</sup> Heinrich Heine University, Neurobiology, Düsseldorf,, North Rhine-Westphalia, Germany
T11-001E	30	T11	Memory and learning	Serotonergic signaling in microglia is critical for spatial memory consolidation	<b>G. Albertini</b> <sup>1,2</sup> , I. D'Andrea <sup>1,2</sup> , V. Fabre <sup>2</sup> , J. C. Poncer <sup>1,2</sup> , L. Maroteaux <sup>1,2</sup> , A. Roumier <sup>1,2</sup>	<sup>1</sup> U1270 - INSERM, Institut du Fer à Moulin, Paris, France <sup>2</sup> Sorbonne University, Faculté des Sciences et Ingénierie, Paris, France
T11-002E	235	T11	Memory and learning	Metaplastic switching by astrocytes	<b>H. Yamao</b> <sup>1</sup> , K. Matsui <sup>1</sup>	<sup>1</sup> Tohoku University, Graduate School of Life Sciences, Super-network Brain Physiology, Sendai, Japan
T11-003E	310	T11	Memory and learning	The Role of Astrocytes in Spatial Cognition	<b>A. Doron</b> <sup>1</sup> , A. Rubin <sup>2</sup> , A. Benmelech-Chovav <sup>1</sup> , N. Benaim <sup>1</sup> , T. Carmi <sup>1</sup> , T. Kreisel <sup>1</sup> , Y. Ziv <sup>2</sup> , I. Goshen <sup>1</sup>	<sup>1</sup> The Hebrew University, ELSC, Jerusalem, Israel <sup>2</sup> Weizmann Institute of Science, Neurobiology, Rehovot, Israel
T11-004E	420	T11	Memory and learning	Dysregulation of astroglial cAMP signals and glucose utilisation in an intellectual disability <i>Gdi1</i> -null mouse model	<b>A. Horvat</b> <sup>1,2</sup> , P. D'Adamo <sup>1,2,3</sup> , J. Velebit <sup>1,2</sup> , M. Malnar <sup>1</sup> , M. Muhić <sup>4</sup> , K. Fink <sup>1</sup> , M. Potokar <sup>1,2</sup> , S. Trkov Bobnar <sup>1,2</sup> , M. Kreft <sup>1,2,4</sup> , H. H. Chowdhury <sup>1,2</sup> , M. Stenovec <sup>1,2</sup> , N. Vardjan <sup>1,2</sup> , R. Zorec <sup>1,2</sup>	<sup>1</sup> Laboratory of Neuroendocrinology - Molecular Cell Physiology, Institute of Pathophysiology, Faculty of Medicine, University of Ljubljana, Ljubljana, Slovenia <sup>2</sup> Laboratory of Cell Engineering, Celica Biomedical, Ljubljana, Slovenia <sup>3</sup> Division of Neuroscience, IRCCS San Raffaele Scientific Institute, Milan, Italy <sup>4</sup> Department of Biology, Biotechnical Faculty, University of Ljubljana, Ljubljana, Slovenia
T11-005E	643	T11	Memory and learning	Memory formation upon food deprivation: glia fuel neurons with locally synthesized ketone bodies	<b>B. Silva</b> <sup>1</sup> , O. L. Mantha <sup>1</sup> , J. Schor <sup>1</sup> , A. Pascual <sup>2</sup> , P. - Y. Plaçaïs <sup>1</sup> , A. Pavlowsky <sup>1</sup> , T. Preat <sup>1</sup>	<sup>1</sup> ESPCI Paris - PSL Research University, Plasticité de Cerveau, Paris, France <sup>2</sup> Instituto de Biomedicina de Sevilla, Mecanismos de mantenimiento neuronal, Seville, Spain
T11-006E	655	T11	Memory and learning	Memory consolidation is governed by gap junctional communication in the astrocytic network	<b>M. Péter</b> <sup>1</sup> , Z. Szabó <sup>1</sup> , L. Héja <sup>1</sup>	<sup>1</sup> Research Centre for Natural Sciences, Institute of Organic Chemistry, Budapest, Hungary

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T11-007E	852	T11	Memory and learning	Microglia and Complement Signaling Contribute to Hippocampal Spatial Tuning	<b>K. McDermott</b> <sup>1</sup> , M. A. Frechou <sup>1</sup> , J. Jordan <sup>1</sup> , S. Martin <sup>1</sup> , J. T. Gonçalves <sup>1</sup>	<sup>1</sup> Albert Einstein College of Medicine, Dominick P. Purpura Department of Neuroscience, Bronx, New York, United States of America
T12-001A	6	T12	Myelin	How do astrocytes influence myelination?	<b>S. Rion</b> <sup>1</sup>	<sup>1</sup> University Basel, Roche Basel, Neuroscience, Basel, Basel-Stadt, Switzerland
T12-002A	70	T12	Myelin	Lanthionine ketimine ethyl ester increases remyelination in the cuprizone model of demyelination	J. Dupree <sup>2</sup> , S. Egge <sup>2</sup> , P. Paez <sup>3</sup> , V. Cheli <sup>3</sup> , S. Tiwari-Woodruff <sup>4</sup> , K. Atkinson <sup>4</sup> , R. Khanna <sup>7</sup> , A. Moutal <sup>7</sup> , T. Denton <sup>5</sup> , <b>D. L. Feinstein</b> <sup>1</sup>	<sup>1</sup> University Illinois at Chicago, Anesthesiology, Chicago, Illinois, United States of America <sup>2</sup> Virginia Commonwealth University, Richmond, Virginia, United States of America <sup>3</sup> University Buffalo, Buffalo, New York, United States of America <sup>4</sup> University California, Riverside, California, United States of America <sup>5</sup> Washington State University, Pharmaceutical Sciences, Spokane, Washington, United States of America <sup>6</sup> University Arizona, Tucson, Arizona, United States of America
T12-003A	107	T12	Myelin	Activity-dependent nanoscale dynamics of myelinated axons	<b>J. Kwon</b> <sup>1,2</sup> , Y. Jo <sup>1,2</sup> , M. Choi <sup>3</sup>	<sup>1</sup> Sungkyunkwan University, Biomedical Engineering, Suwon, Republic of Korea <sup>2</sup> Institute for Basic Science (IBS), Center for Neuroscience Imaging Research, Suwon, Republic of Korea <sup>3</sup> Seoul University, Biomedical, Seoul, Republic of Korea
T12-004A	125	T12	Myelin	CMTM6 expressed on the adaxonal Schwann cell surface restricts axonal diameters in peripheral nerves	<b>M. Eichel</b> <sup>1</sup> , V. - I. Gargareta <sup>1</sup> , E. D'Este <sup>2,3</sup> , R. Fledrich <sup>1,4</sup> , T. Kungl <sup>1,4</sup> , T. J. Buscham <sup>1</sup> , K. A. Lüders <sup>1</sup> , C. Miracle <sup>1</sup> , R. B. Jung <sup>1</sup> , U. Distler <sup>5,6</sup> , K. Kusch <sup>1</sup> , W. Möbius <sup>1,7</sup> , S. Hülsmann <sup>8</sup> , S. Tenzer <sup>5</sup> , K. - A. Nave <sup>1</sup> , H. B. Werner <sup>1</sup>	<sup>1</sup> Max Planck Institute of Experimental Medicine, Neurogenetics, Göttingen, Lower Saxony, Germany <sup>2</sup> Max Planck Institute for Biophysical Chemistry, Nanobiophotonics, Göttingen, Lower Saxony, Germany <sup>3</sup> Max Planck Institute for Medical Research, Optical Microscopy Facility, Heidelberg, Germany <sup>4</sup> University Leipzig, Institute of Anatomy, Leipzig, Germany <sup>5</sup> Johannes Gutenberg University, Institute of Immunology, University Medical Center, Mainz, Germany <sup>6</sup> Johannes Gutenberg University, Focus Program Translational Neuroscience, University Medical Center, Mainz, Germany <sup>7</sup> Max Planck Institute of Experimental Medicine, Electron Microscopy Core Unit, Göttingen, Germany <sup>8</sup> Max Planck Institute of Experimental Medicine, Göttingen, Germany
T12-005A	143	T12	Myelin	Neuron class-specific responses govern adaptive myelin remodeling in the neocortex	<b>S. M. Yang</b> <sup>1</sup> , K. Michel <sup>2</sup> , V. Jokhi <sup>1</sup> , E. Nedivi <sup>2,3</sup> , <sup>4</sup> , P. Arlotta <sup>1,5</sup>	<sup>1</sup> Harvard University, Department of Stem Cell and Regenerative Biology, Cambridge, Massachusetts, United States of America <sup>2</sup> Picower Institute of Learning and Memory, Cambridge, Massachusetts, United States of America <sup>3</sup> MIT, Department of Biology, Cambridge, Massachusetts, United States of America <sup>4</sup> MIT, Department of Brain and Cognitive Sciences, Cambridge, Massachusetts, United States of America <sup>5</sup> Stanley Center for Psychiatric Research, Broad Institute of Harvard and MIT, Cambridge, Massachusetts, United States of America
T12-006A	145	T12	Myelin	Organization of ion channel domains in myelinated inhibitory neurons of the hippocampus	D. Pinatel <sup>1</sup> , E. Pearlstein <sup>1</sup> , D. Karagogeos <sup>2</sup> , V. Crépel <sup>1</sup> , D. Meijer <sup>3</sup> , <b>C. Faivre-Sarrailh</b> <sup>1</sup>	<sup>1</sup> INSERM Aix-Marseille Univ, Inmed, Marseille, France <sup>2</sup> University of Crete Medical School, IMBB, Heraklion, Greece <sup>3</sup> University of Edinburgh, Edinburgh, United Kingdom



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T12-007A	184	T12	Myelin	Hypoxia-inducible factor 1 alpha promotes peripheral nerve myelination.	Y. Ujiie-Kobayashi <sup>1</sup> , S. Wakatsuki <sup>1</sup> , <b>T. Araki</b> <sup>1</sup>	<sup>1</sup> National Center of Neurology and Psychiatry, Department of Peripheral Nervous System Research, National Institute of Neuroscience, Tokyo, Japan
T12-008A	194	T12	Myelin	Myelin biogenesis is associated with pathological ultrastructure that is resolved by microglia during development	<b>M. Djannatian</b> <sup>1,2</sup> , U. Weikert <sup>3</sup> , S. Safaiyan <sup>1,2</sup> , C. Wrede <sup>4</sup> , C. Deichsel <sup>1,2</sup> , G. Kislinger <sup>1,2</sup> , T. Ruhwedel <sup>3</sup> , D. S. Campbell <sup>5</sup> , T. van Ham <sup>6</sup> , B. Schmid <sup>2</sup> , J. Hegermann <sup>4</sup> , W. Möbius <sup>3</sup> , M. Schifferer <sup>2,7</sup> , M. Simons <sup>1,2,7</sup>	<sup>1</sup> Technische Universität München, Institute of Neuronal Cell Biology, Munich, Germany <sup>2</sup> German Center for Neurodegenerative Diseases, Munich, Germany <sup>3</sup> Max-Planck Institute of Experimental Medicine, Göttingen, Germany <sup>4</sup> Hannover Medical School, Hannover, Germany <sup>5</sup> Kyoto University, Department of Neuronal Remodeling, Kyoto, Japan <sup>6</sup> Erasmus MC, University Medical Center Rotterdam, Department of Clinical Genetics, Rotterdam, Netherlands <sup>7</sup> Max-Planck Institute of Experimental Medicine, Göttingen, Germany
T12-009A	205	T12	Myelin	Microglia facilitate repair of demyelinated lesions via post-squalene sterol synthesis	S. A. Berghoff <sup>1</sup> , L. Spieth <sup>1</sup> , T. Sun <sup>1</sup> , C. Depp <sup>1</sup> , J. Edgar <sup>2,1</sup> , K. A. Nave <sup>1</sup> , <b>G. Saher</b> <sup>1</sup>	<sup>1</sup> Max Planck Institute of Experimental Medicine, Neurogenetics, Göttingen, Germany <sup>2</sup> University of Glasgow, College of Medical Veterinary and Life Sciences, Glasgow, United Kingdom
T12-010A	206	T12	Myelin	The intricacies of remyelination failure problem: a novel alginate-based hydrogel to understand the impact of mechanical properties changes on oligodendrocyte differentiation	<b>E. D. Carvalho</b> <sup>1,2,3</sup> , M. R. G. Morais <sup>1,2</sup> , M. Araújo <sup>1,2</sup> , C. C. Barrias <sup>1,2,4</sup> , A. P. Pêgo <sup>1,2,3</sup>	<sup>1</sup> Institute for Health and Research in Innovation (i3S), Porto, Portugal <sup>2</sup> Institute of Biomedical Engineering (INEB), Porto, Portugal <sup>3</sup> Faculty of Engineering University of Porto (FEUP), Porto, Portugal <sup>4</sup> Abel Salazar Biomedical Sciences Institute University of Porto (ICBAS), Porto, Portugal
T12-011A	237	T12	Myelin	A role of Schmidt-Lanterman Incisures for sustaining Schwann cell function in Charcot-Marie-Tooth Disease type 1A	<b>D. Krauter</b> <sup>1,2</sup> , T. Kungl <sup>3,1</sup> , L. Linhoff <sup>1,2</sup> , D. Ewers <sup>1,2</sup> , K. - A. Nave <sup>4</sup> , M. W. Sereda <sup>1,2</sup>	<sup>1</sup> Max Planck Institute of Experimental Medicine, Molecular and Translational Neurology, Göttingen, Germany <sup>2</sup> University Medical Center Göttingen, Department of Neurology, Göttingen, Germany <sup>3</sup> Leipzig University, Institute of Anatomy, Leipzig, Germany <sup>4</sup> Max Planck Institute of Experimental Medicine, Department of Neurogenetics, Göttingen, Germany
T12-012A	251	T12	Myelin	Parvalbumin interneuron myelination determines fast inhibition and cortical network rhythmicity	<b>M. Dubey</b> <sup>1</sup> , M. Pascual-García <sup>3</sup> , K. Helmes <sup>1</sup> , D. D. Wever <sup>1</sup> , M. S. Hamada <sup>1,2</sup> , C. Jenkins <sup>1</sup> , S. A. Kushner <sup>3</sup> , M. H.P. Kole <sup>1,2</sup>	<sup>1</sup> Royal Netherlands Academy of Arts and Sciences (KNAW), Department of Axonal Signalling, Netherlands Institute for Neuroscience (NIN), Amsterdam, Netherlands <sup>2</sup> Utrecht University, Cell Biology, Neurobiology and Biophysics, Department of Biology, Faculty of Science, Utrecht, Netherlands <sup>3</sup> Erasmus Medical Centre, Department of Psychiatry, Rotterdam, Netherlands
T12-013B	263	T12	Myelin	DNA methylation regulates the expression of the negative transcriptional regulators ID2 and ID4 during OPC differentiation.	<b>A. Tiane</b> <sup>1,2,3</sup> , M. Schepers <sup>1,2,3</sup> , R. Riemens <sup>2,4</sup> , B. Rombaut <sup>1,2</sup> , P. Vandormael <sup>3,5</sup> , V. Somers <sup>3,5</sup> , J. Prickaerts <sup>2</sup> , N. Hellings <sup>3,5</sup> , D. van den Hove <sup>2,6</sup> , T. Vanmierlo <sup>1,2,3</sup>	<sup>1</sup> Hasselt University, Department of Neuroscience, Diepenbeek, Belgium <sup>2</sup> Maastricht University, Department Psychiatry and Neuropsychology, School for Mental Health and Neuroscience, Maastricht, Netherlands <sup>3</sup> University MS Center (UMSC), Pelt, Belgium <sup>4</sup> Institute of Human Genetics, Julius Maximilians University, Wuerzburg, Germany <sup>5</sup> Hasselt University, Department of Immunology and Infection, Diepenbeek, Belgium <sup>6</sup> University of Wuerzburg, Department of Psychiatry, Psychosomatics and Psychotherapy, Wuerzburg, Germany

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T12-014B	265	T12	Myelin	Enhancing myelin renewal reverses cognitive dysfunction in a murine model of Alzheimer's disease	F. J. Chen <sup>1</sup> , K. Liu <sup>1</sup> , B. Hu <sup>1</sup> , L. Xiao <sup>1</sup> , J. R. Chan <sup>2</sup> , <b>F. Mei</b> <sup>1</sup>	<sup>1</sup> Third Military Medical University, Chongqing, China <sup>2</sup> University of California at San Francisco, Department of Neurology, San Francisco, United States of America
T12-015B	292	T12	Myelin	MicroRNA-125a-3p up-regulation impairs endogenous remyelination altering several pro-myelinating signaling pathways.	<b>D. Marangon</b> <sup>1</sup> , E. Boda <sup>2</sup> , C. Negri <sup>1</sup> , R. Parolisi <sup>2</sup> , F. Montarolo <sup>2</sup> , S. Perga <sup>2</sup> , C. Giorgi <sup>3</sup> , A. Bertolotto <sup>2</sup> , A. Buffo <sup>2</sup> , M. Abbracchio <sup>1</sup> , D. Lecca <sup>1</sup>	<sup>1</sup> University of Milan, Department of Pharmaceutical Sciences, Milano, Italy <sup>2</sup> University of Turin, Department of Neuroscience Rita Levi Montalcini, Orbassano, Italy <sup>3</sup> National Research Council, Institute of Molecular Biology and Pathology, Roma, Italy
T12-016B	299	T12	Myelin	Timely Schwann cell division during migration drives peripheral myelination <i>in vivo</i>	<b>M. - J. Boueid</b> <sup>1</sup> , A. Midkache <sup>3</sup> , E. Lesport <sup>2</sup> , B. Delespierre <sup>2</sup> , J. Loisel-Duwattez <sup>2</sup> , C. Degerny <sup>1</sup> , M. Tawk <sup>2</sup>	<sup>1</sup> Université Paris Saclay, LE KREMLIN BICETRE, France <sup>2</sup> Inserm, U1195, LE KREMLIN BICETRE, France <sup>3</sup> Institut Curie, UMR 3215- U934, Paris, France
T12-017B	300	T12	Myelin	The IRE1/XBP1 pathway of the UPR modulates disease severity in Charcot-Marie-Tooth type 1B mice	<b>M. D'Antonio</b> <sup>1</sup> , T. Touvier <sup>1</sup> , F. A. Veneri <sup>1</sup> , A. Claessens <sup>1</sup> , R. Mastrangelo <sup>1</sup> , C. Ferri <sup>1</sup> , F. Bianchi <sup>4</sup> , U. Del Carro <sup>4</sup> , M. Shy <sup>2</sup> , L. Wrabetz <sup>3</sup>	<sup>1</sup> San Raffaele Scientific Institute, Division of Genetics and Cell Biology, Milan, Italy <sup>2</sup> University of Iowa, Department of Neurology, Iowa City, Iowa, United States of America <sup>3</sup> State University of New York at Buffalo, Hunter James Kelly Research Institute, Buffalo, New York, United States of America <sup>4</sup> San Raffaele Scientific Institute, Division of Neuroscience, Milan, Italy
T12-018B	303	T12	Myelin	Untargeted lipidomic analysis of brain myelin composition and changes during development	<b>V. Naffaa</b> <sup>1</sup> , R. Magny <sup>1,2</sup> , J. Van Steenwinkel <sup>3,4</sup> , A. Regazzetti <sup>1</sup> , P. Gressens <sup>3,4</sup> , O. Laprévôte <sup>1,5</sup> , N. Auzel <sup>1</sup> , A. - L. Schang <sup>6</sup>	<sup>1</sup> Université de Paris, CNRS UMR 8038 CITCoM, Paris, France <sup>2</sup> Sorbonne Université, UM80, INSERM UMR 968, CNRS UMR 7210, Institut de la Vision, IHU ForeSight, Paris, France <sup>3</sup> Université de Paris, Inserm UMR 1141 NeuroDiderot, Paris, France <sup>4</sup> PremUP, Paris, France <sup>5</sup> Hôpital Européen Georges Pompidou, AP-HP, Service de Biochimie, Paris, France <sup>6</sup> Université de Paris, UMR 1153 GDFSS, Paris, France
T12-019B	323	T12	Myelin	Imbalance of Neuregulin-ErbB2 pathway leading to altered myelin homeostasis in models of Charcot-Marie-Tooth disease Type 4H	L. El-bazzal <sup>1</sup> , Y. Poitelon <sup>2</sup> , C. Esteve <sup>1</sup> , C. Castro <sup>1</sup> , N. Roeckel-Trevisiol <sup>1</sup> , M. Bartoli <sup>1</sup> , N. Levy <sup>1</sup> , R. Jabbour <sup>3</sup> , A. Megarbané <sup>4</sup> , V. Delague <sup>1</sup> , <b>N. Bernard-Marissal</b> <sup>1</sup>	<sup>1</sup> Aix-Marseille Univ, MMG, Marseille, France <sup>2</sup> Albany Medical College, Department of Neuroscience and Experimental Therapeutics, New York, United States of America <sup>3</sup> University of Balamand, Beirut, Lebanon <sup>4</sup> Institut Jérôme Lejeune, Paris, France
T12-020B	333	T12	Myelin	p38MAPKγ inhibits OPC differentiation during development and remyelination and is present in MS lesions.	<b>L. N. Marziali</b> <sup>1</sup> , M. Palmisano <sup>1</sup> , Y. Hwang <sup>1</sup> , A. Cuenda <sup>2</sup> , R. Dutta <sup>3</sup> , B. Trapp <sup>3</sup> , L. Wrabetz <sup>1</sup> , M. L. Feltri <sup>1</sup>	<sup>1</sup> SUNY at Buffalo, Hunter James Kelly Research Institute Departments of Biochemistry and Neurology, Buffalo, New York, United States of America <sup>2</sup> Centro Nacional de Biotecnología/CSIC, Department of Immunology and Oncology, Madrid, Spain <sup>3</sup> Cleveland Clinic, Lerner Research Institute, Cleveland, Ohio, United States of America
T12-021B	338	T12	Myelin	Myelin-dependent distribution of mitochondria in parvalbumin interneuron axons	<b>K. Kole</b> <sup>1</sup> , A. Z. Castro <sup>1</sup> , M. E. Brinia <sup>1,3</sup> , M. H. Kole <sup>1,2</sup>	<sup>1</sup> Netherlands Institute for Neuroscience, Axonal Signaling Group, Amsterdam, Netherlands <sup>2</sup> Utrecht University, Cell Biology, Neurobiology and Biophysics, Utrecht, Netherlands <sup>3</sup> National and Kapodistrian University of Athens, Neurology, Athens, Greece

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T12-022B	380	T12	Myelin	The Hexokinase I 5'-UTR mutation in CMT4G disease modifies HKI binding to VDAC and leads to dysfunction in mitochondrial calcium buffering	<b>S. Gonzalez</b> <sup>1,2</sup> , M. Ceprian-Costoso <sup>1,2</sup> , R. Morales <sup>3,4</sup> , N. Tricaud <sup>1</sup>	<sup>1</sup> Institute for Regenerative Medicine & Biotherapy, INSERM, Montpellier, France <sup>2</sup> Institute for Neurosciences of Montpellier, INSERM, Montpellier, France <sup>3</sup> Hôpital Saint Eloi, Montpellier, France <sup>4</sup> Hospital Vall d'Hebron, Barcelona, Spain
T12-023C	385	T12	Myelin	Learning induces periaxonal and nodal plasticity in the adult mouse brain	<b>C. L. Cullen</b> <sup>1</sup> , R. E. Pepper <sup>1</sup> , M. Clutterbuck <sup>1</sup> , K. Pitman <sup>1</sup> , V. Oorschot <sup>2,7</sup> , L. Auderset <sup>1</sup> , A. Tang <sup>3</sup> , G. Ramm <sup>2</sup> , B. Emery <sup>4</sup> , J. Rodger <sup>3,5</sup> , R. B. Jolivet <sup>6</sup> , K. M. Young <sup>1</sup>	<sup>1</sup> University of Tasmania, Menzies Institute for Medical Research, Hobart, Australia <sup>2</sup> Monash University, Ramaciotti Centre for Cryo-Electron Microscopy, Melbourne, Australia <sup>3</sup> University of Western Australia, School of Biological Sciences, Perth, Australia <sup>4</sup> Oregon Health and Sciences University, Jungers Center for Neuroscience, Portland, Oregon, United States of America <sup>5</sup> Perron Institute for Neurological and Translational Research, Perth, Australia <sup>6</sup> University of Geneva, Département de Physique Nucléaire et Corpusculaire, Geneva, Genève, Switzerland <sup>7</sup> European Molecular Biology Laboratory, Electron Microscopy Core Facility, Heidelberg, Germany
T12-024C	400	T12	Myelin	Glial precursor cells generated from rat mesenchymal cells respond to repurposed drugs, enhancing their differentiation, metabolism and ensheath abilities.	<b>J. Pascual-Guerra</b> <sup>1</sup> , J. Alarcón-Gil <sup>1</sup> , M. Posada-Gracia <sup>1</sup> , J. A. Rodríguez-Navarro <sup>1</sup> , C. L. Paino <sup>1</sup>	<sup>1</sup> RYCIS, Ramón y Cajal University Hospital, Madrid, Spain
T12-025C	413	T12	Myelin	Unraveling the role of SUMOylation peripheral myelination	I. Fergani <sup>1</sup> , Y. Poitelon <sup>2</sup> , V. Matafora <sup>3</sup> , A. Bachi <sup>3</sup> , L. Wrabetz <sup>1</sup> , L. Feltri <sup>1</sup> , <b>L. Frick</b> <sup>1</sup>	<sup>1</sup> HJKRI/University at Buffalo, Buffalo, United States of America <sup>2</sup> Albany Medical College, Albany, United States of America <sup>3</sup> Institute of Molecular Oncology Foundation, Milano, Italy
T12-026C	414	T12	Myelin	Targeted nanomedicines to stimulate the differentiation of oligodendrocyte progenitor cells in the scope of multiple sclerosis	<b>Y. Labrak</b> <sup>1,2</sup> , M. Al Houayek <sup>2</sup> , L. D'Auria <sup>3</sup> , V. Miron <sup>4</sup> , G. Muccioli <sup>2</sup> , A. Des Rieux <sup>1</sup>	<sup>1</sup> UCLouvain, Advance Drug Delivery and Biomaterials, Louvain Drug research institute, Brussels, Belgium <sup>2</sup> UCLouvain, Bioanalysis and Pharmacology of Bioactive Lipids, Louvain Drug research institute, Brussels, Belgium <sup>3</sup> UCLouvain, Neurochemistry group, CEMO division, Institute of Neuroscience, Brussels, Belgium <sup>4</sup> University of Edinburgh, MRC Centre for Reproductive Health, The Queen's Medical Research Institute, Edinburgh, United Kingdom
T12-027C	424	T12	Myelin	Clemastine impairs myelin development	<b>A. Palma</b> <sup>1,2</sup> , A. Robledo-Menéndez <sup>1,2</sup> , C. Matute <sup>1,2</sup> , A. Pérez-Samartín <sup>1,2</sup> , M. Domercq <sup>1,2</sup>	<sup>1</sup> University of Basque Country (UPV), Department of Neuroscience, Vizcaya, Spain <sup>2</sup> Achucarro Basque Center for Neuroscience, Neurobiology, Vizcaya, Spain
T12-028C	428	T12	Myelin	A critical role for autophagy in oligodendrocyte maturation and myelin formation	<b>N. Ktena</b> <sup>1,2</sup> , S. I. Kaplanis <sup>1,2</sup> , V. Nikolettou <sup>3</sup> , D. Karagogeos <sup>1,2</sup> , M. Savvaki <sup>1,2</sup>	<sup>1</sup> Foundation for Research and Technology, Institute of Molecular Biology and Biotechnology, Heraklion, Greece <sup>2</sup> University of Crete, School of Medicine, Heraklion, Greece <sup>3</sup> University of Lausanne, Department of Fundamental Neurosciences, Lausanne, Vaud, Switzerland

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T12-029C	446	T12	Myelin	Proteome profile of myelin in the zebrafish brain	<b>S. Siems</b> <sup>1</sup> , O. Jahn <sup>2</sup> , L. Hoodless <sup>3</sup> , R. Jung <sup>1</sup> , D. Hesse <sup>2</sup> , W. Möbius <sup>4</sup> , T. Czopka <sup>3</sup> , H. Werner <sup>1</sup>	<sup>1</sup> Max Planck Institute of Experimental Medicine, Department of Neurogenetics, Göttingen, Germany <sup>2</sup> Max Planck Institute of Experimental Medicine, Proteomics Group, Göttingen, Germany <sup>3</sup> University of Edinburgh, Centre for Clinical Brain Sciences, Edinburgh, United Kingdom <sup>4</sup> Max Planck Institute of Experimental Medicine, Electron Microscopy Core, Göttingen, Germany
T12-030C	450	T12	Myelin	Diversity of CNS myelin protein composition between humans and mice associated with heterogenous oligodendrocyte mRNA abundance profiles	<b>V. - I. Gargareta</b> <sup>1</sup> , J. Reuschenbach <sup>1</sup> , S. Siems <sup>1</sup> , T. Sun <sup>1</sup> , I. Huitinga <sup>3</sup> , L. Piepkorn <sup>2</sup> , W. Möbius <sup>4</sup> , K. Nave <sup>1</sup> , O. Jahn <sup>2</sup> , H. Werner <sup>1</sup>	<sup>1</sup> Max Planck Institute for Experimental Medicine, Department of Neurogenetics, Göttingen, Germany <sup>2</sup> Max Planck Institute for Experimental Medicine, Proteome Core Unit, Göttingen, Germany <sup>3</sup> Netherlands Institute for Neuroscience, Neuroimmunology Group, Amsterdam, Netherlands <sup>4</sup> Max Planck Institute for Experimental Medicine, EM Core Unit, Göttingen, Germany
T12-031C	452	T12	Myelin	Bioimaging of Microglia and Myelin Clearance during demyelination Using the Fluorescent BASHY Platform	<b>M. VPinto</b> <sup>1</sup> , F. M. Santos <sup>1</sup> , C. Barros <sup>1</sup> , A. R. Ribeiro <sup>1</sup> , P. M. Gois <sup>1,2</sup> , A. Fernandes <sup>1,2</sup>	<sup>1</sup> Research Institute for Medicines (iMed. ULisboa), Faculdade de Farmácia, Universidade de Lisboa, Lisbon, Portugal <sup>2</sup> Departamento de Ciências Farmacêuticas e do Medicamento, Faculdade de Farmácia, Universidade de Lisboa, Lisbon, Portugal
T12-032C	460	T12	Myelin	The essential role of the thyroid hormone transporter MCT8 in oligodendrocyte maturation and myelination	<b>V. Valcárcel-Hernández</b> <sup>1</sup> , M. Guillén-Yunta <sup>1</sup> , S. Báñez-López <sup>1,2</sup> , A. Guadaño-Ferraz <sup>1</sup>	<sup>1</sup> Instituto de Investigaciones Biomédicas "Alberto Sols", Endocrine and Nervous System Pathophysiology, Madrid, Spain <sup>2</sup> University of Bristol, Bristol, United Kingdom
T12-033C	507	T12	Myelin	Mechanisms controlling neuroblasts migration and reprogramming during myelin repair.	<b>M. Falque</b> <sup>1</sup> , K. Magalon <sup>1</sup> , P. Durbec <sup>1</sup>	<sup>1</sup> Aix-Marseille Université - CNRS, IBDM - UMR 7288, Marseille, France
T12-034D	523	T12	Myelin	Microglial interaction at nodes of Ranvier in health and repair	<b>R. Ronzano</b> <sup>1</sup> , T. Roux <sup>1,2</sup> , M. Thetiot <sup>1</sup> , M. S. Aigrot <sup>1</sup> , L. Richard <sup>3</sup> , F. X. Lejeune <sup>1</sup> , E. Mazuir <sup>1</sup> , J. M. Vallat <sup>3</sup> , C. Lubetzki <sup>1,2</sup> , A. Desmazières <sup>1</sup>	<sup>1</sup> Sorbonne University, Paris Brain Institute, Paris, France <sup>2</sup> APHP, Pitié-Salpêtrière Hospital, Paris, France <sup>3</sup> CHU Limoges, Département de neurologie, Limoges, France
T12-035D	557	T12	Myelin	The role of myelination in layer 5 corticothalamic feedback	<b>N. Jamann</b> <sup>1,2</sup> , J. S. Montijn <sup>1</sup> , S. Driessens <sup>1</sup> , J. A. Heimel <sup>1</sup> , M. H. P. Kole <sup>1,2</sup>	<sup>1</sup> Netherlands Institute for Neuroscience, Royal Academy of Arts and Science, Amsterdam, Netherlands <sup>2</sup> University of Utrecht, Cell Biology, Neurobiology and Biophysics, Department of Biology, Faculty of Science, Utrecht, Netherlands
T12-036D	570	T12	Myelin	Improved Performance of Neuron-Free Microfibre Assay to Assess Myelin Sheath Formation	<b>P. Assinck</b> <sup>1</sup> , J. M. Kim <sup>1</sup> , P. - H. Lin <sup>2</sup> , M. Swire <sup>1</sup> , S. Y. Chew <sup>2,3</sup> , C. French-Constant <sup>1</sup> , M. Bechler <sup>4,5,1</sup>	<sup>1</sup> The University of Edinburgh, Centre for Regenerative Medicine and Institute for Regeneration and Repair, Edinburgh, United Kingdom <sup>2</sup> Nanyang Technological University, School of Chemical and Biological Engineering, Singapore, Singapore <sup>3</sup> Nanyang Technological University, Lee Kong Chian School of Medicine, Singapore, Singapore <sup>4</sup> SUNY Upstate Medical University, Cell and Developmental Biology, Syracuse, New York, United States of America <sup>5</sup> SUNY Upstate Medical University, Neuroscience and Physiology, Syracuse, New York, United States of America

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T12-037D	571	T12	Myelin	Neocortical pyramidal cell myelination is predicted by local axonal morphology in mouse and human	<b>M. Pascual-García</b> <sup>1</sup> , S. Hijazi <sup>1</sup> , M. Unkel <sup>1</sup> , J. Slotman <sup>2</sup> , A. Bolleboom <sup>3,4</sup> , B. Bouwen <sup>3,4</sup> , A. B. Houtsmuller <sup>2</sup> , C. Dirven <sup>4</sup> , Z. Gao <sup>3</sup> , S. A. Kushner <sup>1</sup>	<sup>1</sup> Erasmus MC, Department of Psychiatry, Rotterdam, Netherlands <sup>2</sup> Erasmus MC, Erasmus Optical Imaging Center, Department of Pathology, Rotterdam, Netherlands <sup>3</sup> Erasmus MC, Department of Neuroscience, Rotterdam, Netherlands <sup>4</sup> Erasmus MC, Department of Neurosurgery, Rotterdam, Netherlands
T12-038D	587	T12	Myelin	Heme metabolism regulates oligodendrocyte differentiation and myelination	<b>J. Stockley</b> <sup>1</sup> , T. Bartles <sup>1</sup> , Z. Xu <sup>1</sup> , I. Hamza <sup>2</sup> , D. Rowitch <sup>1</sup>	<sup>1</sup> University of Cambridge, Cambridge Stem Cell Institute, Cambridge, United Kingdom <sup>2</sup> University of Maryland, Cell Biology and Molecular Genetics, College Park, Maryland, United States of America
T12-039D	601	T12	Myelin	Use of peptide-fluorophore conjugates to assess putative targeting to glia of peptide-drug hybrid molecules as a new therapeutic approach for Multiple Sclerosis.	<b>F. Josa-Prado</b> <sup>1</sup> , C. Tosat-Bitrián <sup>2</sup> , I. Prieto-Mauricio <sup>1</sup> , ? Gutiérrez-Jiménez <sup>2</sup> , A. Martínez <sup>2</sup> , V. Palomo <sup>2</sup> , F. de Castro <sup>1</sup>	<sup>1</sup> CSIC, Institute Cajal, Madrid, Spain <sup>2</sup> CSIC, Center for Biological Research (CIB), Madrid, Spain
T12-040D	607	T12	Myelin	ApTOLL: a new aptamer to recover myelin in Multiple Sclerosis	<b>B. Fernández-Gómez</b> <sup>1,2</sup> , D. Piñeiro <sup>2</sup> , M. Hernández-Jiménez <sup>2</sup> , F. de Castro <sup>1</sup>	<sup>1</sup> Cajal Institute, Developmental neurobiology group, Madrid, Spain <sup>2</sup> Aptatargets. S.L, Madrid, Spain
T12-041D	641	T12	Myelin	Human 3D iPSC-derived brain model to study chemical-induced myelin disruption	<b>D. Pamies</b> <sup>1,2</sup> , M. Chesnut <sup>2</sup> , L. Smirnova <sup>2</sup> , A. Mutallimov <sup>2</sup> , V. Maillard <sup>1</sup> , C. Repond <sup>1</sup> , T. Hartung <sup>2</sup> , M. - G. Zurich <sup>1</sup> , H. Hoerber <sup>2</sup>	<sup>1</sup> University of Lausanne, Biomedical Science, Lausanne, Vaud, Switzerland <sup>2</sup> Johns Hopkins University, Center for Alternatives to Animal Testing, Baltimore, Maryland, United States of America
T12-042D	657	T12	Myelin	White matter matters in Gba1 pathologies	I. Gregorio <sup>1</sup> , L. Russo <sup>1</sup> , D. Bizzotto <sup>1</sup> , P. Braghetta <sup>1</sup> , E. Moro <sup>1</sup> , <b>M. Cescon</b> <sup>1</sup>	<sup>1</sup> University of Padova, Department of Molecular Medicine, Padova, Italy
T12-043D	664	T12	Myelin	Investigating the role of CNS myelination in circuit function and behaviour using zebrafish	<b>D. Suminaite</b> <sup>1</sup> , M. Madden <sup>2</sup> , J. Early <sup>1</sup> , S. Neely <sup>1</sup> , D. Lyons <sup>1</sup>	<sup>1</sup> University of Edinburgh, Centre for Discovery Brain Sciences, Edinburgh, United Kingdom <sup>2</sup> University of Edinburgh, Royal (Dick) School of Veterinary Studies, Edinburgh, United Kingdom
T12-044D	665	T12	Myelin	Aβ oligomers upregulate myelin basic protein mRNA transport and local translation in oligodendrocytes	<b>A. Gaminde-Blasco</b> <sup>1</sup> , U. Balantzategi <sup>1</sup> , T. Quintela-López <sup>1</sup> , I. Hierro <sup>1</sup> , F. N. Soria <sup>1</sup> , C. Matute <sup>1</sup> , J. Baleriola <sup>1,2,3</sup> , E. Alberdi <sup>1</sup>	<sup>1</sup> University of Basque Country (UPV/EHU), Centro de Investigación Biomédica en Red en Enfermedades Neurodegenerativas (CIBERNED), Achucarro Basque Center for Neuroscience, Neuroscience, Leioa, Spain <sup>2</sup> Ikerbasque, Basque Foundation for Science, Bilbao, Spain <sup>3</sup> University of Basque Country, Cellular Biology and Histology, Leioa, Spain
T12-045D	667	T12	Myelin	Deletion of monocarboxylate transporter 2 in oligodendrocytes leads to demyelination with oligodendroglial preservation	<b>L. Izaguirre Urizar</b> <sup>1</sup> , S. Moyon <sup>2</sup> , M. - J. Ulloa <sup>3</sup> , L. Merino <sup>1</sup> , L. Bayón Cordero <sup>1</sup> , C. Netzahualcoyotzi <sup>4</sup> , M. - V. Sanchez <sup>1</sup> , B. Nait Oumesmar <sup>5</sup> , J. - M. Garcia Verdugo <sup>3</sup> , L. Pellerin <sup>6</sup> , C. Matute <sup>1</sup> , V. Tepavcevic <sup>1</sup>	<sup>1</sup> Achucarro Basque Center for Neuroscience/University of the Basque Country, Leioa, Spain <sup>2</sup> Neuroscience Initiative Advanced Science Research Center, CUNY, New York, New York, United States of America <sup>3</sup> University of Valencia, Cavanilles Institute of Biodiversity and Evolutionary Biology, Valencia, Spain <sup>4</sup> Universidad Anáhuac México Campus Norte, Centro de Investigación en Ciencias de la Salud (CICSA), Mexico, Mexico <sup>5</sup> Paris Brain Institute-ICM, Paris, France <sup>6</sup> University of Cambridge, Cambridge, United Kingdom

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T12-046D	683	T12	Myelin	Functional Consequence of Adult Onset Sulfatide Depletion in Mature CNS	<b>E. Dustin</b> <sup>1,2,3</sup> , S. Benusa <sup>1,2</sup> , R. Shah <sup>1</sup> , J. Palavicini <sup>4</sup> , A. McQuiston <sup>1</sup> , H. Xianlin <sup>4</sup> , J. Dupree <sup>1,2</sup>	<sup>1</sup> Virginia Commonwealth University, Anatomy and Neurobiology, Richmond, Virginia, United States of America <sup>2</sup> Hunter Holmes McGuire Veterans Affairs Medical Center, Richmond, Virginia, United States of America <sup>3</sup> Virginia Commonwealth University, Neuroscience Curriculum, Richmond, Virginia, United States of America <sup>4</sup> UT Health San Antonio, Medicine, San Antonio, Texas, United States of America
T12-047D	689	T12	Myelin	NLRP3: a novel player in OPC proliferation and myelin regeneration	<b>L. Gritti</b> <sup>1</sup> , E. McKay <sup>1</sup> , J. Curran <sup>1</sup> , K. Feeney <sup>1</sup> , D. Crooks <sup>1</sup> , A. - L. Boinet <sup>1</sup> , T. Bertholon <sup>1</sup> , S. Fleville <sup>1</sup> , D. C. Fitzgerald <sup>1</sup> , P. Bankhead <sup>2</sup> , Y. Dombrowski <sup>1</sup>	<sup>1</sup> Queen's University Belfast, Wellcome-Wolfson Institute for Experimental Medicine, Belfast, United Kingdom <sup>2</sup> University of Edinburgh, Centre for Genomic and Experimental Medicine, Edinburgh, United Kingdom
T12-048E	749	T12	Myelin	TRPA1 regulates potassium siphoning and seizure susceptibility through modulation of oligodendrocyte potassium channels	<b>V. Giacco</b> <sup>1</sup> , G. Flower <sup>1</sup> , D. Attwell <sup>2</sup> , N. Hamilton <sup>1</sup>	<sup>1</sup> King's College London, Wolfson Centre for Age-Related Diseases, London, United Kingdom <sup>2</sup> University College London, Department of Neuroscience, Physiology and Pharmacology, London, United Kingdom
T12-049E	782	T12	Myelin	Reduced myelination and altered Schwann cell adaptation to injury in a mouse model lacking GBA1 in myelinating glia	<b>L. Russo</b> <sup>1</sup> , I. Gregorio <sup>1</sup> , D. Bizzotto <sup>1</sup> , M. Cescon <sup>1</sup>	<sup>1</sup> University of Padova, Department of Molecular Medicine, Padova, Italy
T12-050E	838	T12	Myelin	Experience-dependent myelination following stress is mediated by the neuropeptide dynorphin	<b>L. Osso</b> <sup>1</sup> , K. Rankin <sup>1</sup> , J. Chan <sup>1</sup>	<sup>1</sup> University of California, San Francisco, Department of Neurology, San Francisco, California, United States of America
T12-051E	843	T12	Myelin	Inefficient demyelination can compromise axonal integrity in models of toxic demyelination	<b>M. Lehning</b> <sup>3</sup> , E. Schäffner <sup>3,2</sup> , M. Bosch-Queralt <sup>3</sup> , S. Berghoff <sup>2</sup> , M. Krüger <sup>1</sup> , A. Barrantes-Freer <sup>3</sup> , K. - A. Nave <sup>2</sup> , R. Fiedrich <sup>2,1</sup> , R. Stassart <sup>2,3</sup>	<sup>1</sup> University of Leipzig, Institute of Anatomy, Leipzig, Saxony, Germany <sup>2</sup> Max-Planck-Institute of Experimental Medicine, Department of Neurogenetics, Göttingen, Lower Saxony, Germany <sup>3</sup> University of Leipzig, Department of Neuropathology, Leipzig, Saxony, Germany
T12-052E	849	T12	Myelin	Extracellular HMGB1 inhibits oligodendrocyte progenitor cell differentiation via TLR2 signaling	<b>M. Rouillard</b> <sup>1</sup> , S. Crocker <sup>1</sup>	<sup>1</sup> University of Connecticut Health Center, Neuroscience, Farmington, Connecticut, United States of America
T12-053E	861	T12	Myelin	Investigating the role of CCN3 in central nervous system myelination and remyelination	<b>N. de la Vega Gallardo</b> <sup>1</sup> , R. Penalva <sup>1</sup> , M. Dittmer <sup>1</sup> , M. Naughton <sup>1</sup> , J. Falconer <sup>1</sup> , J. Moffat <sup>1</sup> , A. Guzman de la Fuente <sup>1</sup> , J. Romero Hombrebueno <sup>2</sup> , Z. Lin <sup>3</sup> , B. Perbal <sup>4</sup> , R. Ingram <sup>1</sup> , E. Evergren <sup>5</sup> , D. Fitzgerald <sup>1</sup>	<sup>1</sup> Queen's University Belfast, The Wellcome-Wolfson Institute for Experimental Medicine, Belfast, United Kingdom <sup>2</sup> University of Birmingham, Institute of Inflammation and Ageing, Birmingham, United Kingdom <sup>3</sup> Emory University School of Medicine, Harrington Heart and Vascular Institute, Cleveland, Ohio, United States of America <sup>4</sup> International CCN Society, Marseille, France <sup>5</sup> Queen's University Belfast, The Patrick G Johnston Centre for Cancer Research, Belfast, United Kingdom
T12-054E	863	T12	Myelin	Longitudinal Intravital Microscopy Reveals Axon Degeneration Concomitant With Inflammatory Cell Infiltration in an LPC Model of Demyelination	<b>B. E. Waly</b> <sup>1</sup> , E. Buttigieg <sup>1</sup> , C. Karakus <sup>1</sup> , S. Brustlein <sup>1</sup> , F. Debarbieux <sup>1</sup>	<sup>1</sup> Institut des Neurosciences de la Timone, UMR 7289,, Marseille, France
T12-055E	867	T12	Myelin	The role of TRPA1 in regulating action potential amplitude in the mouse optic nerve	<b>G. Flower</b> <sup>1</sup> , W. Lajos <sup>1</sup> , V. Giacco <sup>1</sup> , A. Braban <sup>1</sup> , A. Roxas <sup>1</sup> , N. Hamilton-Whitaker <sup>1</sup>	<sup>1</sup> King's College London, Wolfson Centre for Age-related diseases, London, United Kingdom

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T12-056E	872	T12	Myelin	Control of CNS Myelination by the E3 Ligase Component Fbxw7	<b>H. Y. Collins</b> <sup>1,2</sup> , T. Simkins <sup>1,2</sup> , Z. Li <sup>1</sup> , B. Emery <sup>2</sup> , K. Monk <sup>1</sup>	<sup>1</sup> Oregon Health and Science University, Vollum Institute, Portland, Oregon, United States of America <sup>2</sup> Oregon Health and Science University, Jungers Institute, Portland, Oregon, United States of America
T12-057E	873	T12	Myelin	Striatin-3 is a novel Rac1 interactor in Schwann cells	<b>M. R. Weaver</b> <sup>1,2</sup> , M. Pellegatta <sup>3</sup> , L. Frick <sup>1,4</sup> , C. Berti <sup>5</sup> , M. Palmisano <sup>6</sup> , S. Ferguson <sup>7</sup> , C. Namba <sup>8</sup> , M. Selbach <sup>9</sup> , F. E. Paul <sup>9</sup> , L. Wrabetz <sup>1,4,10</sup> , Y. Poitelon <sup>11</sup> , L. Feltri <sup>1,4,10</sup>	<sup>1</sup> University at Buffalo, Hunter James Kelly Research Institute, Buffalo, New York, United States of America <sup>2</sup> University at Buffalo, Neuroscience Program, Buffalo, New York, United States of America <sup>3</sup> San Raffaele Scientific Institute, Milan, Italy <sup>4</sup> University at Buffalo, Department of Biochemistry, Buffalo, New York, United States of America <sup>5</sup> New York University, Department of Pathology, Buffalo, New York, United States of America <sup>6</sup> Roche, Monza e Brianza, Italy <sup>7</sup> University at Buffalo, Department of Pharmaceutical Sciences, Buffalo, New York, United States of America <sup>8</sup> Meharry Medical College, Nashville, Tennessee, United States of America <sup>9</sup> Max Delbrück Center for Molecular Medicine, Berlin, Germany <sup>10</sup> University at Buffalo, Department of Neurology, Buffalo, New York, United States of America <sup>11</sup> Albany Medical Center, Neuroscience and Experimental Therapeutics, Albany, United States of America
T12-058E	882	T12	Myelin	What is the Role of Actin Disassembly in CNS Myelination?	<b>H. Kantarci</b> <sup>1</sup> , M. H. Cooper <sup>1</sup> , A. E. Munch <sup>1</sup> , N. Ambiel <sup>1</sup> , M. A. Garcia <sup>1</sup> , M. Iyer <sup>1</sup> , <b>J. B. Zuchero</b> <sup>1</sup>	<sup>1</sup> Stanford University, Neurosurgery, Stanford, California, United States of America
T13-001C	20	T13	Neural stem/progenitor cells	Lineage relationships of the derived-cell progeny of Neural Progenitor Cells	<b>A. C. Ojalvo-Sanz</b> <sup>1</sup> , R. Sanchez-González <sup>1</sup> , L. López-Mascaraque <sup>1</sup>	<sup>1</sup> Cajal Institute-CSIC, Molecular, Cellular and Developmental Neurobiology, Madrid, Spain
T13-002C	62	T13	Neural stem/progenitor cells	Wnt/β-catenin signaling promotes neurogenesis in the ischemic adult mouse brain	<b>J. Kriska</b> <sup>1</sup> , T. Knotek <sup>1,2</sup> , D. Kirdajova <sup>1,2</sup> , L. Janeckova <sup>3</sup> , P. Honsa <sup>1</sup> , D. Dzamba <sup>1</sup> , D. Kolenicova <sup>1,2</sup> , O. Butenko <sup>1</sup> , M. Vojtechova <sup>3</sup> , M. Capek <sup>4</sup> , Z. Kozmik <sup>5</sup> , M. M. Taketo <sup>6</sup> , V. Korinek <sup>3</sup> , M. Anderova <sup>1,2</sup>	<sup>1</sup> Institute of Experimental Medicine, Czech Academy of Sciences, Department of Cellular Neurophysiology, Prague, Czech Republic <sup>2</sup> Charles University, Second Faculty of Medicine, Prague, Czech Republic <sup>3</sup> Institute of Molecular Genetics, Czech Academy of Sciences, Laboratory of Cell and Developmental Biology, Prague, Czech Republic <sup>4</sup> Institute of Molecular Genetics, Czech Academy of Sciences, Service Laboratory of Light Microscopy, Prague, Czech Republic <sup>5</sup> Institute of Molecular Genetics, Czech Academy of Sciences, Laboratory of Transcriptional Regulation, Prague, Czech Republic <sup>6</sup> Kyoto University, Graduate School of Medicine, Division of Experimental Translational Medicine, Kyoto, Japan
T13-003C	76	T13	Neural stem/progenitor cells	Reproducing diabetic retinopathy features using newly developed human iPS-derived retinal Müller glial cells.	<b>X. Guillonnet</b> <sup>1</sup> , G. Blot <sup>1</sup> , A. Couturier <sup>1</sup> , F. Sennlaub <sup>1</sup> , O. Goureau <sup>1</sup> , S. Reichman <sup>1</sup>	<sup>1</sup> Sorbonne Université, Institut de la vision, Paris, France

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T13-004C	152	T13	Neural stem/progenitor cells	Cell type-specific vulnerability to traumatic brain injury in the hippocampal neural stem cell niche	P. Bielefeld <sup>1</sup> , <b>A. Martirosyan</b> <sup>2</sup> , G. Meerhoff <sup>1</sup> , S. K. Poovathingal <sup>2</sup> , N. Reijner <sup>1</sup> , B. Nilges <sup>3</sup> , A. Bogdoli <sup>3</sup> , N. Kashikar <sup>3</sup> , T. G. Belgard <sup>4</sup> , M. G. Holt <sup>2</sup> , C. P. Fitzsimons <sup>1</sup>	<sup>1</sup> University of Amsterdam, Institute for Life Sciences, Center for Neuroscience, Amsterdam, Netherlands <sup>2</sup> VIB-KU Leuven, Center for Brain and Disease Research, Leuven, Belgium <sup>3</sup> Resolve Biosciences GmbH, Creative Campus Monheim Building A03, Monheim am Rhein, Germany <sup>4</sup> The Bioinformatics CRC, Niceville, Florida, United States of America
T13-005C	236	T13	Neural stem/progenitor cells	<i>"Milking": an innovative approach to investigate the properties of postnatal brain neural stem cells and to obtain oligodendrocyte progenitor cells from live experimental rats</i>	<b>D. Dimitrakopoulos</b> <sup>1</sup> , D. Kakogiannis <sup>1</sup> , R. J. Franklin <sup>2</sup> , I. Kazanis <sup>1,2</sup>	<sup>1</sup> University of Patras, Laboratory of Developmental Biology, Department of Biology, Patras, Greece <sup>2</sup> University of Cambridge, Wellcome Trust – MRC Cambridge Stem Cell Institute, Cambridge, United Kingdom
T13-006C	249	T13	Neural stem/progenitor cells	GemC1 deficiency disrupts ependymal cells population and promotes the generation of adult neural stem cells	<b>K. Kaplani</b> <sup>1</sup> , M. - E. Lalioti <sup>1</sup> , G. Lokka <sup>1</sup> , E. Parlapani <sup>1</sup> , C. Kyrousi <sup>1</sup> , M. Arbi <sup>2</sup> , Z. Lygerou <sup>2</sup> , S. Taraviras <sup>1</sup>	<sup>1</sup> University of Patras, Department of Physiology, Medical School, Rio, Greece <sup>2</sup> University of Patras, Department of General Biology, Medical School, Rio, Greece
T13-007C	283	T13	Neural stem/progenitor cells	Role of Renin-Angiotensin System in the Regulation of Adult and Aged Rodent Ventricular-Subventricular Zone Neurogenesis	<b>M. García Garrote</b> <sup>1,2</sup> , A. Pérez Villalba <sup>2,3</sup> , P. Garrido Gil <sup>1,2</sup> , G. Belenguer <sup>2,4</sup> , J. A. Parga Martín <sup>1,2</sup> , F. Pérez Sánchez <sup>2,4</sup> , J. L. Labandeira García <sup>1,2</sup> , I. Fariñas <sup>2,4</sup> , J. Rodríguez Pallares <sup>1,2</sup>	<sup>1</sup> Laboratorio de Neurobiología Celular y Molecular de la enfermedad de Parkinson, Centro Singular de Investigación en Medicina Molecular y Enfermedades Crónicas (CiMUS), Dpto de Ciencias Morfológicas, Universidade de Santiago de Compostela, Santiago de Compostela, Spain <sup>2</sup> Centro de Investigación Biomédica en Red de Enfermedades Neurodegenerativas (CIBERNED), Madrid, Spain <sup>3</sup> Faculty of Psychology, Universidad Católica de Valencia, Burjassot, Spain <sup>4</sup> Departamento de Biología Celular, Biología Funcional y Antropología Física and Estructura de Recerca Interdisciplinar en Biotecnología i Biomedicina (ERI BIOTECMED) Universidad de Valencia, Burjassot, Spain
T13-008D	312	T13	Neural stem/progenitor cells	Acute loss of proliferating NG2 <sup>+</sup> cells after spinal cord injury chronically alters scar formation and axon growth	<b>C. M. Marion</b> <sup>1</sup> , P. Wei <sup>1</sup> , D. McTigue <sup>1,2</sup>	<sup>1</sup> Ohio State University Wexner Medical Center, Dept. of Neuroscience, Coumbus, Ohio, United States of America <sup>2</sup> Ohio State University, Belford Center for Spinal Cord Injury, Coumbus, Ohio, United States of America
T13-009D	454	T13	Neural stem/progenitor cells	Searching for modulators of adult oligodendrogenesis	<b>J. M. Mateus</b> <sup>1,2</sup> , D. M. Lourenço <sup>1,2</sup> , A. M. Sebastião <sup>1,2</sup> , S. Xapelli <sup>1,2</sup>	<sup>1</sup> Instituto de Farmacologia e Neurociências, Faculdade de Medicina da Universidade de Lisboa, Lisboa, Portugal <sup>2</sup> Instituto de Medicina Molecular João Lobo Antunes, Faculdade de Medicina da Universidade de Lisboa, Lisboa, Portugal
T13-010D	468	T13	Neural stem/progenitor cells	Neurogenic and oligodendrogenic cell fate decisions of postnatal brain Neural Stem Cells are differentially dependent on their microenvironment	<b>M. Anesti</b> <sup>1</sup> , S. Magkafa <sup>1</sup> , E. Prantikou <sup>1</sup> , I. Kazanis <sup>1</sup>	<sup>1</sup> University of Patras, Department of Biology, Laboratory of Developmental Biology, Patras, Greece
T13-011D	471	T13	Neural stem/progenitor cells	Loss of Jedi-1 impairs microglial phagocytosis, resulting in reduced postnatal neurogenesis in the subventricular zone.	<b>V. E. Morrison</b> <sup>1,2</sup> , J. B. Trapani <sup>1</sup> , A. A. Brockman <sup>2,3</sup> , R. A. Ihrie <sup>2,3,4</sup> , B. D. Carter <sup>1,2,3</sup>	<sup>1</sup> Vanderbilt University, Department of Biochemistry, Nashville, Tennessee, United States of America <sup>2</sup> Vanderbilt University, Vanderbilt Brain Institute, Nashville, Tennessee, United States of America <sup>3</sup> Vanderbilt University, Program in Cell and Developmental Biology, Nashville, Tennessee, United States of America <sup>4</sup> Vanderbilt University Medical Center, Department of Neurological Surgery, Nashville, Tennessee, United States of America



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T13-012D	539	T13	Neural stem/progenitor cells	Unveiling the heterogeneity of vertebrate adult Neural Stem Cells	<b>D. Morize</b> <sup>1,2,3</sup> , A. Alunni <sup>2</sup> , L. Bally-Cuif <sup>1,2</sup>	<sup>1</sup> Institut Pasteur, Stem Cell & Development Unit, Paris, France <sup>2</sup> CNRS, UMR 3738, Paris, France <sup>3</sup> Sorbonne Universités, Complexité du vivant, Paris, France
T13-013D	596	T13	Neural stem/progenitor cells	Single cell multi-omics of the adult neural stem cell lineage reveals coordinated changes in DNA-methylation, chromatin accessibility and gene expression	<b>L. P. Kremer</b> <sup>1,2</sup> , S. Cerrizuela <sup>1</sup> , S. Dehler <sup>1</sup> , S. Anders <sup>2</sup> , A. Martin-Villalba <sup>1</sup>	<sup>1</sup> German Cancer Research Center (DKFZ), Division of Molecular Neurobiology, Heidelberg, Baden-Württemberg, Germany <sup>2</sup> Ruprecht-Karls-Universität Heidelberg, Center for Molecular Biology of Heidelberg University (ZMBH), Heidelberg, Baden-Württemberg, Germany
T13-014D	614	T13	Neural stem/progenitor cells	Interferon signaling shapes neural stem cell differentiation dynamics	<b>S. Cerrizuela</b> <sup>1</sup> , J. Hooli <sup>1,2</sup> , L. P. Kremer <sup>1</sup> , N. George <sup>1</sup> , W. Fan <sup>3</sup> , B. Berninger <sup>3</sup> , A. Marciniak-Czochra <sup>2</sup> , A. Martin-Villalba <sup>1</sup>	<sup>1</sup> German Cancer Research Center, Heidelberg, Baden-Württemberg, Germany <sup>2</sup> Heidelberg University, Institute of Applied Mathematics, Heidelberg, Baden-Württemberg, Germany <sup>3</sup> Johannes Gutenberg University Mainz, University Medical Center, Institute of Physiological Chemistry, Mainz, Rhineland-Palatinate, Germany
T13-015E	635	T13	Neural stem/progenitor cells	Spatial and temporal recruitment of adult neural stem cells during pregnancy	<b>C. Segalada</b> <sup>1</sup> , Z. Chaker <sup>1</sup> , F. Doetsch <sup>1</sup>	<sup>1</sup> University of Basel, Biozentrum, Basel, Basel-Stadt, Switzerland
T13-016E	698	T13	Neural stem/progenitor cells	Stem cell-derived intraventricular oligodendrocyte progenitors in the adult brain	<b>A. Delgado</b> <sup>1</sup> , V. Silva-Vargas <sup>1</sup> , F. Doetsch <sup>1</sup>	<sup>1</sup> University of Basel, Biozentrum, Basel, Switzerland
T13-017E	716	T13	Neural stem/progenitor cells	Transient neurogenic niches are generated by the sparse and asynchronous activation of striatal astrocytes after excitotoxic lesion	<b>M. Fogli</b> <sup>1,2</sup> , G. Nato <sup>1,2</sup> , P. Greulich <sup>3</sup> , J. Pinto <sup>1,2</sup> , P. Peretto <sup>1,2</sup> , A. Buffo <sup>4,2</sup> , F. Luzzati <sup>1,2</sup>	<sup>1</sup> University of Turin, Dep. of Life Sciences and System Biology, Turin, Italy <sup>2</sup> Neuroscience Institute Cavalieri Ottolenghi, Orbassano, Italy <sup>3</sup> University of Southampton, Mathematical Sciences, Southampton Building 54, Mathematical Sciences, United Kingdom <sup>4</sup> University of Turin, Dep. of Neuroscience, Turin, Italy
T13-018E	744	T13	Neural stem/progenitor cells	A neural stem cell niche with an embryonic-like dorsal-ventral regionalization conserved in the aged human spinal cord	<b>C. Ripoll</b> <sup>1</sup> , R. Chevreau <sup>1</sup> , F. Vachery-Lahaye <sup>2</sup> , L. Bauchet <sup>2</sup> , G. Poulen <sup>2</sup> , N. Lonjon <sup>2</sup> , J. - P. Hugnot <sup>2</sup>	<sup>1</sup> UM, IGF-CNRS UMR 5203-INSERM U1191, Montpellier, France <sup>2</sup> CHRU, Montpellier, France
T13-019E	761	T13	Neural stem/progenitor cells	Neurotoxic effects of three environmental toxicants exposure using <i>in vitro</i> model of murine neurospheres.	<b>S. Méresse</b> <sup>1</sup> , A. Oumadi <sup>1</sup> , V. de Concini <sup>1</sup> , V. Larrigaldie <sup>1</sup> , S. Mortaud <sup>1</sup>	<sup>1</sup> Immunologie et Neurogénétique Expérimentale et Moléculaire (INEM), UMR CNRS 7355 Université d'Orléans, Orléans, France
T13-020E	814	T13	Neural stem/progenitor cells	Regenerative neurogenic response from glia requires insulin driven neuron-glia communication	N. Harrison <sup>1</sup> , E. Connolly <sup>1</sup> , A. Gascon Gubieda <sup>1</sup> , Z. Yang <sup>1</sup> , B. Altenhein <sup>2</sup> , M. Losada-Perez <sup>3</sup> , M. Moreira <sup>1</sup> , J. Sun <sup>1</sup> , <b>A. Hidalgo</b> <sup>1</sup>	<sup>1</sup> University of Birmingham, School of Biosciences, Birmingham, United Kingdom <sup>2</sup> Institute of Zoology, University of Cologne, Cologne, Germany <sup>3</sup> Instituto Cajal, CSIC, Madrid, Spain
T13-021E	853	T13	Neural stem/progenitor cells	Interferon type I modulates stemness and differentiation of adult Neural Stem Cells via cell cycle control and protein synthesis regulation	<b>D. Carvajal Ibanez</b> <sup>1,2</sup> , M. Skabkin <sup>1</sup> , M. Goepferich <sup>1,2</sup> , J. Hooli <sup>1,2</sup> , A. Martin-Villalba <sup>1</sup>	<sup>1</sup> German Cancer Research Center (DKFZ), Molecular Neurobiology, Heidelberg, Baden-Württemberg, Germany <sup>2</sup> University of Heidelberg, Faculty of Biosciences, Heidelberg, Baden-Württemberg, Germany
T14-001A	8	T14	Neuroimmunology and neuroinflammation	Region-dependent changes in microglial dynamics in grey matter in a cuprizone model of demyelination	<b>V. Kyrargyri</b> <sup>1</sup> , I. Roufagalas <sup>1</sup> , M. Avloniti <sup>1</sup> , A. Fortosi <sup>1</sup> , D. Thomaidou <sup>3</sup> , E. Xingi <sup>2</sup> , L. Probert <sup>1</sup> , V. Kyrargyri <sup>1</sup>	<sup>1</sup> Hellenic Pasteur Institute, Immunology/Laboratory of Molecular Genetics, Athens, Greece <sup>2</sup> Hellenic Pasteur Institute, Light Microscopy Unit, Athens, Greece <sup>3</sup> Hellenic Pasteur Institute, Neurobiology, Neural Stem Cells & Neuroimaging Group, Athens, Greece

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T14-002A	32	T14	Neuroimmunology and neuroinflammation	Diet-dependent regulation of TGFβ impairs reparative innate immune responses after demyelination	<b>M. Bosch Queralt</b> <sup>1,2</sup> , L. Cantuti Castelvetti <sup>1,2</sup> , A. Damkou <sup>1,2</sup> , M. Schifferer <sup>2,11</sup> , K. Schlepckow <sup>2</sup> , I. Alexopoulos <sup>1,2</sup> , D. Lütjohann <sup>3</sup> , C. Klose <sup>4</sup> , L. Vaculíková <sup>5</sup> , T. Masuda <sup>6</sup> , M. Prinz <sup>6,7,8</sup> , K. M. Monroe <sup>9</sup> , G. Di Paolo <sup>9</sup> , J. W. Lewcock <sup>9</sup> , C. Haass <sup>2,10,11</sup> , M. Simons <sup>1,2,11</sup>	<sup>1</sup> Technical University Munich, Institute of Neuronal Cell Biology, Munich, Germany <sup>2</sup> German Center for Neurodegenerative Diseases (DZNE), Munich, Germany <sup>3</sup> University of Hospital Bonn, Institute for of Clinical Chemistry and Clinical Pharmacology, Bonn, Germany <sup>4</sup> Lipotype, Dresden, Germany <sup>5</sup> Max Planck Institute for Human Cognitive and Brain Sciences, Department of Neurophysics, Leipzig, Germany <sup>6</sup> University of Freiburg, Institute of Neuropathology, Faculty of Medicine, Freiburg, Germany <sup>7</sup> University of Freiburg, Signalling Research Centres BIOSS and CIBSS, Freiburg, Germany <sup>8</sup> University of Freiburg, Center for Basics in NeuroModulation (NeuroModulBasics), Faculty of Medicine, Freiburg, Germany <sup>9</sup> Denali Therapeutics Inc, South San Francisco, California, United States of America <sup>10</sup> Ludwig-Maximilians-Universität München, Chair of Metabolic Biochemistry, Biomedical Center (BMC), Faculty of Medicine, Planegg, Germany <sup>11</sup> Munich Cluster of Systems Neurology (SyNergy), Munich, Germany
T14-003A	34	T14	Neuroimmunology and neuroinflammation	Heterogeneity of microglial nodules in MS: possible implications for MS lesion formation	M. van der Poel <sup>1</sup> , <b>A. M. R. van den Bosch</b> <sup>1</sup> , N. Fransen <sup>1</sup> , M. Vincenten <sup>1</sup> , A. Bobeldijk <sup>1</sup> , J. Hamann <sup>1,2</sup> , I. Huitinga <sup>1,3</sup>	<sup>1</sup> Netherlands institute for Neuroscience, Neuroimmunology Research Group, Amsterdam, Netherlands <sup>2</sup> Amsterdam University Medical Centres, Department of Experimental Immunology, Amsterdam, Netherlands <sup>3</sup> University of Amsterdam, Swammerdam Institute for Life Sciences, Amsterdam, Netherlands
T14-004A	39	T14	Neuroimmunology and neuroinflammation	Major histocompatibility complex-expressing oligodendrocyte lineage cells are induced in mouse models of multiple sclerosis	<b>R. Bannon</b> <sup>1</sup> , E. P. Harrington <sup>1,2</sup> , M. D. Smith <sup>1</sup> , D. Heo <sup>1</sup> , D. E. Bergles <sup>1,3</sup> , P. A. Calabresi <sup>1,2</sup>	<sup>1</sup> Johns Hopkins Univeristy School of Medicine, Solomon H. Snyder Department of Neuroscience, Baltimore, Maryland, United States of America <sup>2</sup> Johns Hopkins Univeristy School of Medicine, Department of Neurology, Baltimore, Maryland, United States of America <sup>3</sup> Johns Hopkins University, Kavli Neuroscience Discovery Institute, Baltimore, Maryland, United States of America
T14-005A	41	T14	Neuroimmunology and neuroinflammation	Spermidine ameliorates neuroinflammation and Alzheimer's disease pathology	<b>K. Freitag</b> <sup>1,2</sup> , N. Sterczyk <sup>1</sup> , J. Schulz <sup>1</sup> , J. Houtman <sup>1</sup> , L. Fleck <sup>1</sup> , S. Sigrist <sup>3,4</sup> , F. L. Heppner <sup>1,2,3</sup> , M. Jendrach <sup>1</sup>	<sup>1</sup> Charité – Universitätsmedizin Berlin, Department of Neuropathology, Berlin, Berlin, Germany <sup>2</sup> German Center for Neurodegenerative Diseases (DZNE), Berlin, Berlin, Germany <sup>3</sup> Cluster of Excellence, NeuroCure, Berlin, Berlin, Germany <sup>4</sup> Freie Universität Berlin, Institute for Biology and Genetics, Berlin, Berlin, Germany
T14-006A	50	T14	Neuroimmunology and neuroinflammation	Sustained hyperammonemia induces TNF-α in glial cells and Purkinje neurons by activating the TNFR1-NF-κB pathway	<b>Y. M. Arenas Ortiz</b> <sup>1</sup> , T. Balzano <sup>1</sup> , M. Llansola <sup>1</sup> , V. Felipo <sup>1</sup>	<sup>1</sup> Centro de investigación príncipe felipe, Neurobiología, Valencia, Spain

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T14-007A	56	T14	Neuroimmunology and neuroinflammation	Time-resolved single-cell RNAseq profiling identifies a novel <i>Fabp5</i> -expressing subpopulation of inflammatory myeloid cells in chronic spinal cord injury	<b>R. Hamel</b> <sup>1</sup> , L. Luca Peruzzotti-Jametti <sup>1</sup> , K. Ridley <sup>2</sup> , V. Testa <sup>1</sup> , B. Yu <sup>1</sup> , D. Rowitch <sup>2</sup> , J. Marioni <sup>3, 4, 5</sup> , S. Pluchino <sup>1</sup>	<sup>1</sup> University of Cambridge, Clinical Neurosciences, Cambridge, United Kingdom <sup>2</sup> University of Cambridge, Cambridge Stem Cell Institute, Cambridge, United Kingdom <sup>3</sup> University of Cambridge, Cancer Research UK Cambridge Institute, Cambridge, United Kingdom <sup>4</sup> European Bioinformatics Institute, European Molecular Biology Laboratory, Hinxton, United Kingdom <sup>5</sup> Wellcome Genome Campus, Wellcome Sanger Institute, Hinxton, United Kingdom
T14-008A	69	T14	Neuroimmunology and neuroinflammation	Severe experimental autoimmune encephalomyelitis (EAE) is ameliorated by human olfactory-derived mesenchymal stromal cell transplantation revealing a role for IL-16	<b>S. L. Lindsay</b> <sup>1</sup> , A. Mol <sup>1</sup> , L. MacLellan <sup>1</sup> , C. Lington <sup>1</sup> , C. Goodyear <sup>1</sup> , S. C. Barnett <sup>1</sup>	<sup>1</sup> University of Glasgow, Institute of Infection, Inflammation and Immunity, Glasgow, United Kingdom
T14-009A	92	T14	Neuroimmunology and neuroinflammation	Single Cell Sequencing Reveals Glial Specific Responses to Tissue Processing & Post-Mortem Across Species	<b>S. E. Marsh</b> <sup>1, 2, 3</sup> , T. Kamath <sup>3</sup> , A. J. Walker <sup>1, 2, 3</sup> , L. Dissing-Olesen <sup>1, 2, 3</sup> , T. R. Hammond <sup>1, 2, 3</sup> , A. M. Young <sup>4</sup> , A. Abdullaouf <sup>3</sup> , N. Nadaf <sup>3</sup> , C. Dufort <sup>1</sup> , S. Murphy <sup>1</sup> , V. Kozareva <sup>3</sup> , C. Vanderburg <sup>3</sup> , S. Hong <sup>5</sup> , H. Bulstrode <sup>4</sup> , P. J. Hutchinson <sup>6</sup> , D. J. Gaffney <sup>7</sup> , R. J. Franklin <sup>4</sup> , E. Z. Macosko <sup>3, 8</sup> , B. Stevens <sup>1, 3, 9</sup>	<sup>1</sup> Boston Children's Hospital, F.M. Kirby Neurobiology Center, Boston, Massachusetts, United States of America <sup>2</sup> Harvard Medical School, Boston, Massachusetts, United States of America <sup>3</sup> Broad Institute of MIT and Harvard, Stanley Center for Psychiatric Research, Cambridge, Massachusetts, United States of America <sup>4</sup> University of Cambridge, Wellcome-Medical Research Council Cambridge Stem Cell Institute, Cambridge Biomedical Campus, Cambridge, United Kingdom <sup>5</sup> University College London, UK Dementia Research Institute, London, United Kingdom <sup>6</sup> University of Cambridge and Cambridge University Hospitals NHS Foundation Trust, Department of Clinical Neurosciences, Cambridge, United Kingdom <sup>7</sup> Wellcome Sanger Institute, Wellcome Genome Campus, Hinxton, Cambridgeshire, United Kingdom <sup>8</sup> Department of Psychiatry, Massachusetts General Hospital, Boston, Massachusetts, United States of America <sup>9</sup> Howard Hughes Medical Institute, Boston Children's Hospital, Boston, Massachusetts, United States of America
T14-010A	100	T14	Neuroimmunology and neuroinflammation	LRP1-mediated activation of neurotoxic astrocytes and the effect on brain aging	<b>N. Savre</b> <sup>1, 2</sup> , S. Ahmad <sup>1</sup> , K. Dieter <sup>1</sup> , P. Reed <sup>1</sup> , S. Sprague <sup>1</sup>	<sup>1</sup> University of Texas Health San Antonio, Dept of Neurosurgery, San Antonio, Texas, United States of America <sup>2</sup> South Texas Veteran's Health Care System, San Antonio, Texas, United States of America
T14-011A	121	T14	Neuroimmunology and neuroinflammation	Implication of microglial activation in chloride homeostasis impairment, long term consequences of TBI	<b>M. Tessier</b> <sup>1</sup> , M. Saez-Garcia <sup>2</sup> , L. Tian <sup>2</sup> , C. Pellegrino <sup>1, 3</sup> , C. Rivera <sup>1, 2, 3</sup>	<sup>1</sup> INSERM, INMED U1249, Marseille, France <sup>2</sup> Helsinki University, Neuroscience Center, Helsinki, Finland <sup>3</sup> Aix Marseille University, Science Faculty, Marseille, France
T14-012A	126	T14	Neuroimmunology and neuroinflammation	Glial cell activation and altered metabolic profile in the spinal-trigeminal axis in a model of multiple sclerosis-associated trigeminal pain	<b>G. Magni</b> <sup>1</sup> , S. Pedretti <sup>1</sup> , M. Audano <sup>1</sup> , D. Caruso <sup>1</sup> , N. Mitro <sup>1</sup> , S. Ceruti <sup>1</sup>	<sup>1</sup> Università degli Studi di Milano, Department of Pharmacological and Biomolecular Sciences, Milano, Italy

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T14-013A	136	T14	Neuroimmunology and neuroinflammation	Longitudinal MR imaging of locally induced EAE mice revealed the extent of blood-spinal cord barrier disruption as a predictive marker of demyelination severity	<b>T. Hirata</b> <sup>1,3</sup> , T. Itokazu <sup>1</sup> , A. Sasaki <sup>1,3</sup> , F. Sugihara <sup>4</sup> , T. Yamashita <sup>1,2,4</sup>	<sup>1</sup> Osaka University, Department of Neuro-Medical Science, Graduate School of Medicine, Suita, Japan <sup>2</sup> Osaka University, Department of Molecular Neurosciences, Graduate School of Medicine, Suita, Japan <sup>3</sup> Mitsubishi Tanabe Pharma Corporation, Sohyaku. Innovative Research Division, Yokohama, Japan <sup>4</sup> Osaka University, Central Instrumentation Laboratory, Research Institute for Microbial Diseases, Suita, Japan
T14-014A	142	T14	Neuroimmunology and neuroinflammation	The autophagic protein Beclin1 modulates microglial activation and neuroinflammation	<b>M. Jendrach</b> <sup>1</sup> , J. Houtman <sup>1</sup> , K. Freitag <sup>1,4</sup> , M. Ungersböck <sup>1</sup> , N. Gimber <sup>2</sup> , J. Schmoranz <sup>2</sup> , F. Heppner <sup>1,3,4</sup>	<sup>1</sup> Charité – Universitätsmedizin Berlin, Neuropathology, Berlin, Berlin, Germany <sup>2</sup> Charité – Universitätsmedizin Berlin, Core Facility Advanced Medical Bioimaging (AMBIO), Berlin, Berlin, Germany <sup>3</sup> Cluster of Excellence, NeuroCure, Berlin, Berlin, Germany <sup>4</sup> German Center for Neurodegenerative Diseases (DZNE), Berlin, Berlin, Berlin, Germany
T14-015A	147	T14	Neuroimmunology and neuroinflammation	TREM2-knockout iPS-microglia show hypersensitivity to purinergic signaling	<b>A. McQuade</b> <sup>1,2</sup> , A. Jairaman <sup>4</sup> , A. Granzotto <sup>1,2</sup> , S. Othy <sup>4</sup> , Y. J. Kang <sup>3</sup> , S. K. Shabestari <sup>1,2</sup> , J. P. Chadarevian <sup>1,2</sup> , H. Davtyan <sup>1,2</sup> , M. Cahalan <sup>4</sup> , M. Blurton-Jones <sup>1,2</sup>	<sup>1</sup> UCI, Department of Neurobiology and Behavior, Irvine, California, United States of America <sup>2</sup> UCI, Sue and Bill Gross Stem Cell Research Center, Irvine, California, United States of America <sup>3</sup> UNC Charlotte, Charlotte, North Carolina, United States of America <sup>4</sup> UCI SOM, Department of Physiology and Biophysics, Irvine, California, United States of America
T14-016A	173	T14	Neuroimmunology and neuroinflammation	Rifaximin improves neuroinflammation and neurotransmission in cerebellum and hippocampus of rats with mild liver damage	<b>G. Ivaylova</b> <sup>1</sup> , P. Leone <sup>1</sup> , T. Balzano <sup>2</sup> , M. Llansola <sup>1</sup> , V. Felipo <sup>1</sup>	<sup>1</sup> Centro de Investigación Príncipe Felipe, Neurobiology, Valencia, Spain <sup>2</sup> HM Hospital Universitario Puerta del Sur, HM CINAC, Mostoles, Spain
T14-017A	180	T14	Neuroimmunology and neuroinflammation	Topographical characterisation of distinct astrocyte populations along the length of the MS neuraxis	<b>S. Yee</b> <sup>1</sup> , J. Frost <sup>2</sup> , R. Yates <sup>2</sup> , J. Pansieri <sup>1</sup> , M. Esiri <sup>2</sup> , G. DeLuca <sup>2</sup>	<sup>1</sup> University of Oxford, Nuffield Department of Clinical Neurosciences, Oxford, United Kingdom <sup>2</sup> University of Oxford, University of Oxford Medical School, Oxford, United Kingdom
T14-018A	186	T14	Neuroimmunology and neuroinflammation	Tmem119 is a useful marker for studying human microglia heterogeneity in age-related brain pathology	<b>V. V. Guseynikova</b> <sup>1</sup> , D. E. Korzhevskii <sup>1</sup>	<sup>1</sup> Federal State Budgetary Scientific Institution "Institute of Experimental Medicine", Saint Petersburg, Russian Federation
T14-019A	201	T14	Neuroimmunology and neuroinflammation	Plasmalemmal localization of MHC class II molecules in interferon $\gamma$ treated astrocytes is mediated by reversible exocytosis of larger vesicles and prolonged by inhibited endocytosis	<b>S. Pirnat</b> <sup>1,2</sup> , M. Božič <sup>2</sup> , A. Verkhatsky <sup>1,3,4</sup> , R. Zorec <sup>1,2</sup> , M. Stenovec <sup>1,2</sup>	<sup>1</sup> Celica Biomedical, Ljubljana, Slovenia <sup>2</sup> University of Ljubljana, Laboratory of Neuroendocrinology and Molecular Cell Physiology, Institute of Pathophysiology, Faculty of Medicine, Ljubljana, Slovenia <sup>3</sup> University of Manchester, Faculty of Biology, Medicine and Health, Manchester, United Kingdom <sup>4</sup> IKERBASQUE, Achucarro – Basque Center for Neuroscience, Leioa, Spain

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T14-020A	204	T14	Neuroimmunology and neuroinflammation	Searching for key factors behind the severity of multiple sclerosis: new advances in the functional characterization of the myeloid-derived suppressor cells.	<b>M. C. Ortega</b> <sup>1</sup> , J. García-Arocha <sup>1</sup> , R. Lebrón-Galán <sup>1</sup> , I. Machin-Díaz <sup>1</sup> , B. Wotjas <sup>2</sup> , M. Nieto-Díaz <sup>3</sup> , C. Camacho-Toledano <sup>1</sup> , B. Kaminska <sup>2</sup> , D. Clemente <sup>1</sup>	<sup>1</sup> National Hospital for Paraplegics, Neurommune-Repair group, Toledo, Spain <sup>2</sup> Nencki Institute of Experimental Biology, Molecular Neurobiology, Warsaw, Poland <sup>3</sup> National Hospital for Paraplegics, Molecular Neuroprotection group, Toledo, Spain
T14-021B	215	T14	Neuroimmunology and neuroinflammation	Cortistatin: a key factor involved in the molecular and cellular mechanisms of the healthy aging	<b>I. Serrano-Martínez</b> <sup>1</sup> , J. Castillo-Gonzalez <sup>1</sup> , M. Caro <sup>1</sup> , I. Forte-Lago <sup>1</sup> , E. Gonzalez-Rey <sup>1</sup>	<sup>1</sup> Institute of Parasitology and Biomedicina López-Neyra-IPBLN-CSIC, Cell Biology and Immunology, Granada, Spain
T14-022B	226	T14	Neuroimmunology and neuroinflammation	TAM receptor signalling inhibits induction of GM-CSF in microglia undergoing pro-inflammatory stimulation	<b>S. Gilchrist</b> <sup>1</sup> , S. Hafizi <sup>1</sup>	<sup>1</sup> University of Portsmouth, Pharmacy and Biomedical Sciences, Portsmouth, United Kingdom
T14-023B	239	T14	Neuroimmunology and neuroinflammation	Oligodendrocytes regulate the adhesion molecule ICAM-1 in neuroinflammation	<b>M. N. González Alvarado</b> <sup>1,4</sup> , J. Aprato <sup>2</sup> , M. Baumeister <sup>1,4</sup> , A. Ekici <sup>3</sup> , P. Kirchner <sup>3</sup> , A. Hoffmann <sup>5</sup> , J. Winkler <sup>5</sup> , M. Wegner <sup>2</sup> , S. Haase <sup>1,4</sup> , R. Linker <sup>1,4</sup>	<sup>1</sup> University Hospital Regensburg, Neurology, Regensburg, Bavaria, Germany <sup>2</sup> Friedrich-Alexander University Erlangen-Nuremberg, Erlangen-Nuremberg, Biochemistry, Erlangen, Bavaria, Germany <sup>3</sup> Friedrich-Alexander University Erlangen-Nuremberg, Human genetics, Erlangen, Bavaria, Germany <sup>4</sup> University of Regensburg, Neurology, Regensburg, Bavaria, Germany <sup>5</sup> Friedrich-Alexander University Erlangen-Nuremberg, Molecular Neurology, Erlangen, Bavaria, Germany
T14-024B	242	T14	Neuroimmunology and neuroinflammation	Ageing as a key regulator of the interaction between the immune system and oligodendrocyte progenitor cells	<b>A. Guzman de la Fuente</b> <sup>1</sup> , A. Young <sup>1</sup> , K. Mayne <sup>1</sup> , R. J. Franklin <sup>2</sup> , D. C. Fitzgerald <sup>1</sup>	<sup>1</sup> Queen's University Belfast, Wellcome-Wolfson Institute for Experimental Medicine, Belfast, United Kingdom <sup>2</sup> University of Cambridge, Wellcome-MRC Stem Cell Institute, Jeffrey Cheah Biomedical Centre, Cambridge, United Kingdom
T14-025B	260	T14	Neuroimmunology and neuroinflammation	Differential Functional Contributions of Microglia and non-parenchymal CNS macrophages in physiology and pathophysiology	<b>J. - S. Kim</b> <sup>1</sup> , Z. Haimon <sup>1</sup> , S. Boura-Halfon <sup>1</sup> , S. Jung <sup>1</sup>	<sup>1</sup> Weizmann Institute of Science, Immunology, Rehovot, Israel
T14-026B	264	T14	Neuroimmunology and neuroinflammation	Analysis of Neuroinflammation in CCL17-DTR Mice following DT-treatment	<b>J. Eberhard</b> <sup>1</sup> , L. Fülle <sup>1</sup> , J. Lösch <sup>1</sup> , Y. Majlesain <sup>1</sup> , P. Bedner <sup>2</sup> , L. Henning <sup>2</sup> , J. Müller <sup>2</sup> , C. Steinhäuser <sup>2</sup> , I. Förster <sup>1</sup>	<sup>1</sup> Rheinische Friedrich-Wilhelms-Universität Bonn, Immunology and Environment, LIMES Institute, Bonn, North Rhine-Westphalia, Germany <sup>2</sup> University of Bonn Medical Center, Institute of Cellular Neurosciences, Bonn, North Rhine-Westphalia, Germany
T14-027B	271	T14	Neuroimmunology and neuroinflammation	Protective role of T cells in a mouse model of temporal lobe epilepsy	<b>M. Moreno</b> <sup>1</sup> , P. Nobili <sup>1</sup> , A. Virenque <sup>1</sup> , L. Martins <sup>1</sup> , J. Mateos-Langerak <sup>2</sup> , V. Dardalhon <sup>3</sup> , H. Hirbec <sup>1</sup> , V. Garcia <sup>1</sup> , N. Marchi <sup>1</sup> , E. Audinat <sup>1</sup>	<sup>1</sup> IGF, University of Montpellier, CNRS, INSERM, MONTPELLIER, France <sup>2</sup> IGH, University of Montpellier, CNRS, MONTPELLIER, France <sup>3</sup> IGMM, University of Montpellier, CNRS, MONTPELLIER, France
T14-028B	274	T14	Neuroimmunology and neuroinflammation	<i>The role of enteric glia cells in acute gut inflammation</i>	<b>P. Leven</b> <sup>1</sup> , R. Schneider <sup>1</sup> , B. Schneiker <sup>1</sup> , M. Lysson <sup>1</sup> , P. Efferz <sup>1</sup> , F. L. Christofi <sup>2</sup> , S. Wehner <sup>1</sup>	<sup>1</sup> University Hospital Bonn, Department of Surgery, Bonn, North Rhine-Westphalia, Germany <sup>2</sup> The Ohio State University, College of Medicine, Columbus, Ohio, United States of America
T14-029B	286	T14	Neuroimmunology and neuroinflammation	Zika virus infection triggers differential responses in human brain cells	<b>M. Potokar</b> <sup>1,2</sup> , J. Jorgačevski <sup>1,2</sup> , M. Korva <sup>3</sup> , T. Avšič-Županc <sup>3</sup> , R. Zorec <sup>1,2</sup>	<sup>1</sup> University of Ljubljana, Faculty of Medicine, Institute of Pathophysiology, Ljubljana, Slovenia <sup>2</sup> Celica, BIOMEDICAL, Ljubljana, Slovenia <sup>3</sup> University of Ljubljana, Faculty of Medicine, Institute of Microbiology and Immunology, Ljubljana, Slovenia

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T14-030B	290	T14	Neuroimmunology and neuroinflammation	Direct and indirect roles of different AQP4 isoforms in rapid volume changes in astrocytes	<b>J. JorgaÄevski</b> <sup>1,2</sup> , M. Potokar <sup>1,2</sup> , M. Lisjak <sup>1</sup> , R. Zorec <sup>1,2</sup>	<sup>1</sup> Faculty of Medicine, University of Ljubljana, Institute of pathophysiology, Ljubljana, Slovenia <sup>2</sup> Celica Biomedical, Ljubljana, Slovenia
T14-031B	314	T14	Neuroimmunology and neuroinflammation	BTK signaling regulates microglia-oligodendrocyte interactions during immune-mediated cortical demyelination	<b>H. J. Barr</b> <sup>1</sup> , K. S. Given <sup>1</sup> , R. Fu <sup>2</sup> , C. R. McClain <sup>1</sup> , R. C. Gruber <sup>3</sup> , D. Ofengeim <sup>3</sup> , W. B. Macklin <sup>1</sup> , J. L. Bennet <sup>4,5</sup> , G. P. Owens <sup>4</sup> , E. G. Hughes <sup>1</sup>	<sup>1</sup> Department of Cell and Developmental Biology, University of Colorado School of Medicine, Aurora, Colorado, United States of America <sup>2</sup> RNA Bioscience Initiative, University of Colorado School of Medicine, Aurora, Colorado, United States of America <sup>3</sup> Rare and Precision Neurology Research, Sanofi, Framingham, Massachusetts, United States of America <sup>4</sup> Department of Neurology, University of Colorado School of Medicine, Aurora, Colorado, United States of America <sup>5</sup> Department of Ophthalmology, University of Colorado School of Medicine, Aurora, Colorado, United States of America
T14-032B	328	T14	Neuroimmunology and neuroinflammation	Sex-dependent differences in reactive astrogliosis modulation exerted by IGF1-1 through PI3K signaling	<b>D. Pinto</b> <sup>1,2</sup> , C. Paradelo <sup>1</sup> , ?. Arévalo <sup>1,2</sup>	<sup>1</sup> Instituto Cajal CSIC, Neurobiología Funcional y de Sistemas, Madrid, Spain <sup>2</sup> CIBERFES, Madrid, Spain
T14-033B	352	T14	Neuroimmunology and neuroinflammation	The protective effect of Angiotensin AT2-receptor stimulation in Neuromyelitis optica spectrum disorder is independent of astrocyte-derived BDNF	<b>R. Khorrooshi</b> <sup>1</sup> , J. Marczyńska <sup>1</sup> , M. Dubik <sup>1</sup> , R. S. Dieu <sup>1</sup> , S. F. Sørensen <sup>1</sup> , R. Montanana-Rosell <sup>1</sup> , H. L. Limburg <sup>1</sup> , C. Tygesen <sup>1</sup> , N. Asgari <sup>1,3</sup> , U. M. Steckelings <sup>2</sup> , T. Owens <sup>1</sup>	<sup>1</sup> University of Southern Denmark, Department of Neurobiology Research, Institute of Molecular Medicine, Odense, Denmark <sup>2</sup> University of Southern Denmark, Department of Cardiovascular and Renal Research, Institute of Molecular Medicine, Odense, Denmark <sup>3</sup> Department of Neurology, Slagelse, Denmark
T14-034B	358	T14	Neuroimmunology and neuroinflammation	Hops-based Extract with Anti-oxidant Properties Shapes Neuroinflammation in Aged CNS	<b>M. E. Silva</b> <sup>1,2,3</sup> , J. Mansilla <sup>1,2</sup> , P. Ehrenfeld <sup>4,2</sup> , M. Simirgiotis <sup>3,2</sup> , E. Sanchez <sup>3</sup> , B. Hinrichsen <sup>1,2</sup> , C. Krugmann <sup>1,2</sup> , L. Bieler <sup>5</sup> , S. Couillard-Despres <sup>5</sup> , L. Aigner <sup>6</sup> , F. J. Rivera <sup>1,2,6</sup>	<sup>1</sup> Universidad Austral de Chile, Laboratory of Stem Cells and Neuroregeneration, Institute of Anatomy, Histology and Pathology, Faculty of Medicine, Valdivia, Chile <sup>2</sup> Universidad Austral de Chile, Center for Interdisciplinary Studies on the Nervous System (CISNe), Valdivia, Chile <sup>3</sup> Universidad Austral de Chile, Institute of Pharmacy, Valdivia, Chile <sup>4</sup> Universidad Austral de Chile, Institute of Anatomy, Histology and Pathology, Faculty of Medicine, Valdivia, Chile <sup>5</sup> Paracelsus Medical University, Institute of Experimental Neuroregeneration & Spinal Cord Injury and Tissue Regeneration Center Salzburg (SCI-TReCS), Salzburg, Salzburg, Austria <sup>6</sup> Paracelsus Medical University, Institute of Molecular Regenerative Medicine & Spinal Cord Injury and Tissue Regeneration Center Salzburg (SCI-TReCS), Salzburg, Salzburg, Austria
T14-035B	365	T14	Neuroimmunology and neuroinflammation	Development of cerebral organoids to study EVs-linked spreading of neuroinflammation in ALS-FTD.	<b>M. E. Cicardi</b> <sup>1</sup> , D. Trotti <sup>1</sup>	<sup>1</sup> Thomas Jefferson University, Philadelphia, Pennsylvania, United States of America
T14-036B	370	T14	Neuroimmunology and neuroinflammation	The interaction of activation state, sex and stage of development in ex vivo microglia	<b>I. K. Shearer</b> <sup>1</sup> , M. Tolcos <sup>1</sup> , D. W. Walker <sup>1</sup> , <b>B. Fleiss</b> <sup>1,2</sup>	<sup>1</sup> RMIT University, School of Health and Biomedical Sciences, Bundoora, Australia <sup>2</sup> INSERM UMR1141, NeuroDiderot, Paris, France

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T14-037B	375	T14	Neuroimmunology and neuroinflammation	A novel anti-inflammatory pathway in murine microglia	<b>A. Pavlidaki</b> <sup>1, 2, 3</sup> , A. Giangrande <sup>1, 2, 3</sup>	<sup>1</sup> Institut de Génétique et de Biologie Moléculaire et Cellulaire, Illkirch-Graffenstaden, France <sup>2</sup> Centre National de la Recherche Scientifique- Université de Strasbourg, Illkirch-Graffenstaden, France <sup>3</sup> Institut National de la Santé et de la Recherche Médicale, Illkirch-Graffenstaden, France
T14-038C	387	T14	Neuroimmunology and neuroinflammation	<i>In vitro</i> model for inflammatory activation of human iPSC-derived astrocytes and microglia in multiple sclerosis	<b>T. Hyvärinen</b> <sup>1</sup> , J. Lotila <sup>1</sup> , L. Sukki <sup>1</sup> , H. Kontinen <sup>2</sup> , T. Malm <sup>2</sup> , L. Airas <sup>3</sup> , P. Kallio <sup>1</sup> , S. Narkilahti <sup>1</sup> , S. Hagman <sup>1</sup>	<sup>1</sup> Tampere University, Faculty of Medicine and Health Technology, Tampere, Finland <sup>2</sup> University of Eastern Finland, Faculty of Health Sciences, Kuopio, Finland <sup>3</sup> University of Turku, Department of Clinical Medicine, Turku, Finland
T14-039C	412	T14	Neuroimmunology and neuroinflammation	Retinal microglia analysis in an early aging stage in healthy mice	<b>I. López Cuenca</b> <sup>1</sup> , J. A. Fernández-Albarral <sup>1</sup> , P. Rojas <sup>1, 2</sup> , E. Salobar-García <sup>1, 3, 4</sup> , M. Avilés-Trigueros <sup>5, 4</sup> , M. Vidal-Sanz <sup>5, 4</sup> , R. De Hoz <sup>1, 3, 4</sup> , J. M. Ramírez <sup>1, 6, 4</sup> , A. I. Ramírez <sup>1, 3, 4</sup> , J. J. Salazar <sup>1, 3, 4</sup>	<sup>1</sup> Universidad Complutense de Madrid, Instituto de Investigaciones Oftalmológicas Ramón Castroviejo, Madrid, Spain <sup>2</sup> Hospital General Universitario Gregorio Marañón, Instituto oftálmico, Madrid, Spain <sup>3</sup> Universidad Complutense de Madrid, Facultad de óptica y optometría. Departamento de Inmunología, Oftalmología y ORL, Madrid, Spain <sup>4</sup> OFTARED-ISCI, -, Spain <sup>5</sup> Universidad de Murcia and Instituto Murciano de Investigación Biosanitaria Virgen de la Arrixaca, Facultad de Medicina. Departamento de Oftalmología., Murcia, Spain <sup>6</sup> Universidad Complutense de Madrid, Facultad de Medicina. Departamento de Inmunología, Oftalmología y ORL, Madrid, Spain
T14-040C	417	T14	Neuroimmunology and neuroinflammation	An investigation into the inflammatory function of oligodendrocyte lineage cells in mouse models of multiple sclerosis	<b>L. Kirby</b> <sup>1</sup> , M. Meijer <sup>1</sup> , P. Kukanja <sup>1</sup> , A. Mendanha-Falcão <sup>1</sup> , D. Van Bruggen <sup>1</sup> , A. Ortlieb Guerreiro Cacaís <sup>2</sup> , T. Olsson <sup>2</sup> , G. Castelo-Branco <sup>1</sup>	<sup>1</sup> Karolinska Institutet, Molecular Neurobiology, Stockholm, Sweden <sup>2</sup> Karolinska Institutet, Clinical Neuroscience, Stockholm, Sweden
T14-041C	421	T14	Neuroimmunology and neuroinflammation	Microglial activation in an experimental mouse glaucoma model at aging early stage	<b>J. A. Fernández-Albarral</b> <sup>1</sup> , I. López-Cuenca <sup>1</sup> , E. Salobar-García <sup>1, 2, 6</sup> , P. Rojas <sup>1, 3</sup> , M. Avilés-Trigueros <sup>4, 6</sup> , M. Vidal-Sanz <sup>4, 6</sup> , J. M. Ramírez <sup>1, 5, 6</sup> , J. J. Salazar <sup>1, 2, 6</sup> , A. I. Ramírez <sup>1, 2, 6</sup> , R. de Hoz <sup>1, 2, 6</sup>	<sup>1</sup> Universidad Complutense de Madrid, Instituto de Investigaciones Oftalmológicas Ramón Castroviejo, Madrid, Spain <sup>2</sup> Universidad Complutense de Madrid, Facultad de Óptica y Optometría. Departamento de Inmunología, Oftalmología y ORL, Madrid, Spain <sup>3</sup> Hospital General Universitario Gregorio Marañón, Instituto Oftálmico, Madrid, Spain <sup>4</sup> Universidad de Murcia and Instituto Murciano de Investigación Biosanitaria Virgen de la Arrixaca, Facultad de Medicina. Departamento de Oftalmología, Murcia, Spain <sup>5</sup> Universidad Complutense de Madrid, Facultad de Medicina. Departamento de Inmunología, Oftalmología y ORL, Madrid, Spain <sup>6</sup> OFTARED-ISCI, -, Spain
T14-042C	423	T14	Neuroimmunology and neuroinflammation	BV-2 Microglial Cells Respond to Rotenone Toxic Insult by Modifying Pregnenolone, 5 $\alpha$ -Dihydroprogesterone and Pregnanolone Levels.	<b>C. Lucchi</b> <sup>1</sup> , R. Avallone <sup>2</sup> , G. Puja <sup>2</sup> , A. Codeluppi <sup>2</sup> , M. Filafferro <sup>1</sup> , G. Vitale <sup>2</sup> , C. Rustichelli <sup>2</sup> , G. Biagini <sup>1</sup>	<sup>1</sup> University of Modena and Reggio Emilia, Department of Biomedical, Metabolic, and Neural Sciences, Modena, Italy <sup>2</sup> University of Modena and Reggio Emilia, Department of Life Sciences, Modena and Reggio Emilia University, Modena, Italy

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T14-043C	433	T14	Neuroimmunology and neuroinflammation	Microglial metabolism is a pivotal factor in sexual dimorphism in Alzheimer's disease	<b>M. - V. Guillot-Sestier</b> <sup>1</sup> , A. Rubio Araiz <sup>1</sup> , V. Mela <sup>1</sup> , A. Sayd Gaban <sup>1</sup> , E. O'Neill <sup>1</sup> , L. Joshi <sup>2</sup> , E. Chouchani <sup>3</sup> , E. Mills <sup>3</sup> , M. Lynch <sup>1</sup>	<sup>1</sup> Trinity College Dublin, Trinity Institute of Neuroscience, Dublin, Ireland <sup>2</sup> Medical University of Graz, Gottfried Schatz Research Centre, Graz, Austria <sup>3</sup> Harvard Medical school, Dana-Farber Cancer Institute, Boston, Massachusetts, United States of America
T14-044C	457	T14	Neuroimmunology and neuroinflammation	Fatty acid and lipid signalling in glial cells	<b>R. Aloufi</b> <sup>1</sup> , A. Bennett <sup>1</sup> , S. Alexander <sup>1</sup>	<sup>1</sup> University of Nottingham, Nottingham, United Kingdom
T14-045C	473	T14	Neuroimmunology and neuroinflammation	SCF+ astrocytes interact with c-Kit+ mast cells in the microenvironment of degenerating spinal motor neurons in ALS.	<b>M. Kovacs</b> <sup>1</sup> , V. Varela <sup>1</sup> , S. Ibarburu <sup>1</sup> , C. Alamon <sup>1</sup> , J. S. Beckman <sup>2</sup> , O. Hermine <sup>3</sup> , P. H. King <sup>4,5</sup> , Y. Kwon <sup>4,5</sup> , Y. Si <sup>5</sup> , L. Barbeito <sup>1</sup> , E. Trias <sup>1</sup>	<sup>1</sup> Institut Pasteur de Montevideo, Neurodegeneration Lab, Montevideo, Uruguay <sup>2</sup> Oregon State University, Linus Pauling Institute, Corvallis, Oregon, United States of America <sup>3</sup> Hospital Necker, Institut IMAGINE, Paris, France <sup>4</sup> University of Alabama at Birmingham, Department of Neurology, Birmingham, Alabama, United States of America <sup>5</sup> Birmingham, Birmingham Veterans Affairs Medical Center, Birmingham, Alabama, United States of America
T14-046C	474	T14	Neuroimmunology and neuroinflammation	Evaluation of myelin phagocytosis by microglia/macrophages in the nervous tissue using flow cytometry	<b>B. Almolda</b> <sup>1</sup> , A. R. Gómez-López <sup>1</sup> , G. Manich <sup>1</sup> , M. Recasens <sup>1</sup> , B. Gonzalez <sup>1</sup> , B. Castellano <sup>1</sup>	<sup>1</sup> Autonomous University of Barcelona, Cell Biology, Physiology and Immunology. Institute of Neurosciences, Bellaterra, Spain
T14-047C	492	T14	Neuroimmunology and neuroinflammation	Müller glia-supported optic nerve regeneration in the adult zebrafish is triggered by infiltrating macrophages or microglia depletion	<b>A. Van Dyck</b> <sup>1</sup> , L. Andries <sup>1</sup> , A. Beckers <sup>1</sup> , S. Vanhunsel <sup>1</sup> , L. De Groef <sup>1</sup> , L. Moons <sup>1</sup>	<sup>1</sup> KU Leuven, Biology/ animal physiology, Leuven, Belgium
T14-048C	495	T14	Neuroimmunology and neuroinflammation	Molecular mechanism of maternal immune activation induced parvalbumin positive interneuron deficit	<b>D. Yu</b> <sup>1,2</sup> , T. Li <sup>1,2</sup> , J. - C. Delpech <sup>3</sup> , P. Kishore <sup>1</sup> , T. Koshi <sup>3</sup> , R. Luo <sup>3</sup> , X. Piao <sup>1,2,4</sup>	<sup>1</sup> University of California, San Francisco, Eli and Edythe Broad Center of Regeneration Medicine and Stem Cell Research, San Francisco, California, United States of America <sup>2</sup> University of California, San Francisco, Weill Institute for Neuroscience, San Francisco, California, United States of America <sup>3</sup> Boston Children's Hospital and Harvard Medical School, Department of Medicine, Boston, Massachusetts, United States of America <sup>4</sup> University of California, San Francisco, Division of Neonatology, Department of Pediatrics, San Francisco, California, United States of America
T14-049C	504	T14	Neuroimmunology and neuroinflammation	Regulation of injury responses of human oligodendrocytes by the Integrated Stress Response.	<b>F. Pernin</b> <sup>1</sup> , Q. - L. Cui <sup>1</sup> , M. Blain <sup>1</sup> , M. G. F. Fernandes <sup>1</sup> , J. P. Antel <sup>1</sup>	<sup>1</sup> Montreal Neurological Institute / McGill University, Neurology and Neurosurgery / Neuroimmunology Unit, Montréal, Québec, Canada



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T14-050C	505	T14	Neuroimmunology and neuroinflammation	In vivo imaging of oligodendrocyte injury in an NMO mouse model	<b>S. Kenet</b> <sup>1,2</sup> , M. Herwerth <sup>*1,3,4</sup> , J. Bennett <sup>5</sup> , B. Hemmer <sup>#3,6</sup> , T. Misgeld <sup>#1,6,7</sup>	<sup>1</sup> Technical University of Munich, Institute of Neuronal Cell Biology, Munich, Germany <sup>2</sup> Ludwig-Maximilians University, Graduate School of Systemic Neurosciences, Munich, Germany <sup>3</sup> Technical University of Munich, Klinikum rechts der Isar, Department of Neurology, Munich, Germany <sup>4</sup> University of Zurich, Institute of Pharmacology and Toxicology, Zurich, Switzerland <sup>5</sup> University of Colorado School of Medicine, Department of Neurology and Ophthalmology, Aurora, Germany <sup>6</sup> Munich Cluster of Systems Neurology (SyNergy), Munich, Germany <sup>7</sup> German Center for Neurodegenerative Diseases (DZNE), Munich, Germany
T14-051C	537	T14	Neuroimmunology and neuroinflammation	Schwann Cell-derived Small Extracellular Vesicles Function as “TNFα Decoys” in Painful Peripheral Nerve Injury	<b>M. Sadri</b> <sup>1</sup> , N. Hirose <sup>1,3</sup> , J. Le <sup>1,5</sup> , H. K. Romero <sup>1,4</sup> , H. Kwon <sup>1</sup> , D. Pizzo <sup>2</sup> , S. Ohtori <sup>3</sup> , S. L. Gonias <sup>2</sup> , W. M. Campana <sup>1,4,5</sup>	<sup>1</sup> University of California, San Diego, Anesthesiology, La Jolla, United States of America <sup>2</sup> University of California, San Diego, Pathology, La Jolla, California, United States of America <sup>3</sup> Chiba University, Orthopedics, Chiba, Japan <sup>4</sup> University of California, San Diego, Program in Neurosciences, La Jolla, California, United States of America <sup>5</sup> Veterans Administration, San Diego VA Health Care, San Diego, California, United States of America
T14-052C	538	T14	Neuroimmunology and neuroinflammation	Cathepsin C Aggravates MOG <sub>35-55</sub> induced Experimental Autoimmune Encephalomyelitis by promoting the differentiation of Th17 and Tfh cells	<b>S. Liu</b> <sup>1</sup> , J. Ma <sup>1</sup>	<sup>1</sup> Dalian Medical University, Dalian, China
T14-053C	565	T14	Neuroimmunology and neuroinflammation	Detrimental role of type I interferon-activated microglia in Neuromyelitis Optica.	<b>A. Włodarczyk</b> <sup>1</sup> , R. Khorrooshi <sup>1</sup> , J. Marczyńska <sup>1</sup> , I. Holtman <sup>4</sup> , M. Burton <sup>2</sup> , K. Nolling Jensen <sup>1</sup> , M. Thomassen <sup>2</sup> , B. Eggen <sup>4</sup> , N. Asgari <sup>1,3</sup> , T. Owens <sup>1</sup>	<sup>1</sup> University of Southern Denmark, Institute of Molecular Medicine, Odense C, Denmark <sup>2</sup> Odense University Hospital, Department of Genetics, Odense C, Denmark <sup>3</sup> Slagelse Hospital, Department of Neurology, Slagelse, Denmark <sup>4</sup> University of Groningen, University Medical Center Groningen, Department of Biomedical Sciences of Cells & Systems, Section Molecular Neurobiology, Groningen, Netherlands
T14-054C	573	T14	Neuroimmunology and neuroinflammation	Enteric glia shape intestinal immune homeostasis and tissue responses to parasite infections	<b>F. Progzatky</b> <sup>1</sup> , S. H. Chng <sup>1</sup> , M. Shapiro <sup>1</sup> , A. Laddach <sup>1</sup> , E. - M. Amaniti <sup>1,2</sup> , S. Boeing <sup>1</sup> , A. C. Bon-Frauches <sup>1,3</sup> , B. Garcia-Cassani <sup>1</sup> , C. Classon <sup>1</sup> , S. Sevgi <sup>1</sup> , M. Rahim <sup>1</sup> , R. Lasrado <sup>1</sup> , K. Shah <sup>1</sup> , L. Entwistle <sup>1,4</sup> , A. Suárez-Bonnet <sup>5,7</sup> , M. Wilson <sup>1,6</sup> , B. Stockinger <sup>1</sup> , V. Pachnis <sup>1</sup>	<sup>1</sup> The Francis Crick Institute, London, United Kingdom <sup>2</sup> Sainsbury Wellcome Centre, London, United Kingdom <sup>3</sup> Maastricht University Medical Centre, Dept. of Pathology, GROW-School for Oncology and Developmental Biology, Maastricht, Netherlands <sup>4</sup> GSK, Adaptive Immunity Research Unit, Stevenage, United Kingdom <sup>5</sup> The Royal Veterinary College, Dept Pathobiology & Population Sciences, Hatfield, United Kingdom <sup>6</sup> Genentech Inc, Immunology Discovery, San Francisco, California, United States of America <sup>7</sup> The Francis Crick, Experimental Histopathology STP, London, United Kingdom

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T14-055D	576	T14	Neuroimmunology and neuroinflammation	Pro-resolving mediator lipoxin ATL reduces A $\beta$ -induced oxidative stress and mitochondrial dysfunction in neurons and microglia in vitro	<b>C. Luchena Moreno</b> <sup>1,2</sup> , J. Zuazo Ibarra <sup>1,2</sup> , E. Alberdi Alfonso <sup>1,2</sup> , C. Matute Almu <sup>1,2</sup> , E. Capetillo Zarate <sup>1,2,3</sup>	<sup>1</sup> Achucarro Basque Center for Neuroscience, University of the Basque Country, Department of Neuroscience, Faculty of Medicine and Nursery, Leioa, Spain <sup>2</sup> CIBERNED, Centro de Investigación Biomédica en Red Enfermedades Neurodegenerativas, Madrid, Spain <sup>3</sup> KERBASQUE, Basque Foundation for Science, Bilbao, Spain
T14-056D	580	T14	Neuroimmunology and neuroinflammation	The deletion of microglia exacerbates anorexia induced by the food contaminant Deoxynivalenol	<b>M. Dallaporta</b> <sup>1</sup> , R. Barbouche <sup>1</sup> , S. Rami <sup>1</sup> , K. Poirot <sup>1</sup> , J. - D. Troadec <sup>1</sup> , A. Alysique <sup>1</sup>	<sup>1</sup> Aix-Marseille University, Cognitive Neurosciences Laboratory UMR CNRS 7291, Marseille, France
T14-057D	581	T14	Neuroimmunology and neuroinflammation	TREM2 promotes microglial reprogramming and resilience to subcortical white matter disease in a model of vascular cognitive impairment	<b>S. Szymkowiak</b> <sup>1</sup> , A. Patir <sup>1</sup> , C. Latta <sup>1</sup> , K. Askew <sup>2</sup> , K. Horsburgh <sup>2</sup> , B. McColl <sup>1</sup>	<sup>1</sup> University of Edinburgh, UK DRI, Edinburgh, United Kingdom <sup>2</sup> University of Edinburgh, Centre for Discovery Brain Science, Edinburgh, United Kingdom
T14-058D	600	T14	Neuroimmunology and neuroinflammation	Motoneuron deafferentation and neuroinflammation in association with aging in the spinal cord of C57BL/6J mice.	<b>S. Gras</b> <sup>1,2</sup> , A. Blasco <sup>1,2</sup> , G. Mòdol-Caballero <sup>3</sup> , O. Tarabal <sup>2,1</sup> , A. Casanovas <sup>2,1</sup> , L. Piedrafita <sup>2,1</sup> , A. Barranco <sup>4</sup> , T. Das <sup>5</sup> , S. Salvany <sup>2,1</sup> , A. Gatus <sup>2,1</sup> , S. L. Pereira <sup>5</sup> , X. Navarro <sup>3</sup> , R. Rueda <sup>4</sup> , J. E. Esquerda <sup>2,1</sup> , J. Calderó <sup>2,1</sup>	<sup>1</sup> IRBLleida, Lleida, Spain <sup>2</sup> Universitat de Lleida, Departament de Medicina Experimental/Grup de Patologia Neuromuscular Experimental/Facultat de Medicina, Lleida, Spain <sup>3</sup> Universitat Autònoma de Barcelona/CIBERNED, Departament de Biologia Cel·lular, Fisiologia i Immunologia/Grup de Neuroplasticitat i Regeneració/Institut de Neurociències, Bellaterra, Spain <sup>4</sup> Abbott Nutrition, Strategic Research, Granada, Spain <sup>5</sup> Abbott Nutrition, Strategic Research, Columbus, Ohio, United States of America
T14-059D	604	T14	Neuroimmunology and neuroinflammation	Myelin as a risk factor in autoimmune-mediated injury	<b>E. Schaeffner</b> <sup>1,2</sup> , J. Edgar <sup>3</sup> , M. Lehning <sup>2</sup> , J. Strauß <sup>4</sup> , M. Bosch Queralt <sup>2</sup> , P. Wieghofer <sup>5</sup> , S. Berghoff <sup>1</sup> , M. Krüger <sup>5</sup> , W. Möbius <sup>1</sup> , A. Barrantes-Freer <sup>2</sup> , A. Flügel <sup>4</sup> , R. Fledrich <sup>5,1</sup> , R. Stassart <sup>2,1</sup> , K. - A. Nave <sup>1</sup>	<sup>1</sup> Max-Planck-Institute for Experimental Medicine, Neurogenetics, Göttingen, Germany <sup>2</sup> University Clinic Leipzig, Neuropathology, Leipzig, Germany <sup>3</sup> University of Glasgow, Institute of Infection, Immunity & Inflammation, Glasgow, Germany <sup>4</sup> University of Göttingen, Institute for Neuroimmunology and Multiple Sclerosis Research, Göttingen, Germany <sup>5</sup> University Clinic Leipzig, Anatomy, Leipzig, Germany
T14-060D	608	T14	Neuroimmunology and neuroinflammation	<i>In vivo</i> and <i>in vitro</i> effects of bilirubin on NLRP3 inflammasome activation	<b>I. Ercan</b> <sup>1,2</sup> , S. Cilaker Micili <sup>3</sup> , D. Engur <sup>4,1</sup> , B. Baysal <sup>5</sup> , A. Kumral <sup>6,2</sup> , S. Genc <sup>1,2,7</sup>	<sup>1</sup> Dokuz Eylul University, Izmir Biomedicine and Genome Institute, Izmir, Turkey <sup>2</sup> Izmir Biomedicine and Genome Center, Basic and Translational Research Program, Izmir, Turkey <sup>3</sup> Dokuz Eylul University, Faculty of Medicine, Basic Medical Sciences, Histology and Embryology, Izmir, Turkey <sup>4</sup> Tepecik Training and Research Hospital, Department of Neonatology, Izmir, Turkey <sup>5</sup> Usak University, Faculty of Medicine, Usak, Turkey <sup>6</sup> Dokuz Eylul University, Faculty of Medicine, Internal Medicine, Department of Pediatrics, Izmir, Turkey <sup>7</sup> Dokuz Eylul University, Institute of Health Sciences, Department of Neuroscience, Izmir, Turkey

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T14-061D	626	T14	Neuroimmunology and neuroinflammation	Induction of hypoxia related programs in astrocytes exacerbates Experimental Autoimmune Encephalomyelitis	<b>K. S. Rosiewicz</b> <sup>1</sup> , T. Crowley <sup>1</sup> , M. Alisch <sup>1</sup> , J. Kerkering <sup>1</sup> , V. Siffrin <sup>1</sup>	<sup>1</sup> Charité - Universitätsmedizin Berlin, Experimental and Clinical Research Center (ECRC), Berlin, Berlin, Germany
T14-062D	633	T14	Neuroimmunology and neuroinflammation	Basal autophagy inhibition in microglia diminishes phagocytosis of apoptotic cells and microglial survival	<b>A. Plaza-Zabala</b> <sup>1,2</sup> , V. Sierra-Torre <sup>1,3</sup> , G. Mariño <sup>4,5</sup> , T. Faust <sup>6</sup> , D. Schafer <sup>6</sup> , A. Sierra <sup>1,3,7</sup>	<sup>1</sup> Achucarro Basque Center for Neuroscience, Leioa, Spain <sup>2</sup> University of the Basque Country (UPV/EHU), Department of Pharmacology, Leioa, Spain <sup>3</sup> University of the Basque Country (UPV/EHU), Department of Neuroscience, Leioa, Spain <sup>4</sup> University of Oviedo, Department of Functional Biology, Oviedo, Spain <sup>5</sup> Instituto de Investigación Sanitaria del Principado de Asturias, Oviedo, Spain <sup>6</sup> University of Massachusetts Medical School, Department of Neurobiology, Worcester, United States of America <sup>7</sup> Ikerbasque Foundation, Bilbao, Spain
T14-063D	634	T14	Neuroimmunology and neuroinflammation	Disease severity affects NG2 cell proliferation during the disease course of multiple sclerosis	<b>C. Camacho-Toledano</b> <sup>1</sup> , M. P. Serrano-Regal <sup>1</sup> , R. Lebrón-Galán <sup>1</sup> , I. Machín-Díaz <sup>1</sup> , J. García-Arocha <sup>1</sup> , M. C. Ortega <sup>1</sup> , D. Clemente <sup>1</sup>	<sup>1</sup> National Hospital for Paraplegics, Neuroimmune-Repair Group. Research Unit, Toledo, Spain
T14-064D	645	T14	Neuroimmunology and neuroinflammation	Effects on the hippocampal microglia after acute treatment of a psychological stressor associated with depressive-like behaviours	<b>A. Nieto-Quero</b> <sup>1,2</sup> , M. I. Infantes-López <sup>3</sup> , E. Zambrana-Infantes <sup>1,2</sup> , P. Chaves-Peña <sup>1,3</sup> , S. Tabbai <sup>1</sup> , M. Pérez-Martín <sup>2,3</sup> , C. Pedraza <sup>1,2</sup>	<sup>1</sup> University of Malaga, Department of Psychobiology and Methodology of Behavioral Sciences, Malaga, Spain <sup>2</sup> University of Malaga, Instituto de Investigación Biomédica de Málaga (IBIMA), Malaga, Spain <sup>3</sup> University of Malaga, Department of Cell Biology, Genetics and Physiology, Malaga, Spain
T14-065D	646	T14	Neuroimmunology and neuroinflammation	Chemically functionalized single-walled carbon nanotubes alter the cytokine profile of the stretch-injured cultured mouse astrocytes	<b>N. Gr̂eta</b> <sup>1</sup> , A. Harej Hrk̂a <sup>1</sup> , V. Parpura <sup>2</sup> , G. Āupan <sup>1</sup> , K. PilipoviĀ <sup>1</sup>	<sup>1</sup> University of Rijeka, Faculty of Medicine, Department of Pharmacology, Rijeka, Croatia <sup>2</sup> University of Alabama at Birmingham, Department of Neurobiology, Birmingham, Alabama, United States of America
T14-066D	647	T14	Neuroimmunology and neuroinflammation	iPSC-derived Microglia for Disease Modeling of Frontotemporal Dementia 3	<b>H. Haukedal</b> <sup>1</sup> , K. Freude <sup>1</sup> , B. Aldana Garcia <sup>2</sup> , G. Corsi <sup>1</sup> , V. Gadekar <sup>1</sup> , J. Gorodkin <sup>1</sup>	<sup>1</sup> University of Copenhagen, Department of Veterinary and Animal Sciences, Frederiksberg, Denmark <sup>2</sup> University of Copenhagen, Department of Drug Design and Pharmacology, Copenhagen, Denmark
T14-067D	648	T14	Neuroimmunology and neuroinflammation	Effects of influenza A virus infection on hippocampal neuron structure and function in aged wild-type mice	<b>S. Hosseini</b> <sup>1,2</sup> , K. Michaelsen-Preusse <sup>1</sup> , M. Korte <sup>1,2</sup>	<sup>1</sup> TU-Braunschweig, Department of Cellular Neurobiology, Zoological Institute, Braunschweig, Lower Saxony, Germany <sup>2</sup> Helmholtz Centre for Infection Research, Neuroinflammation and Neurodegeneration Group, Braunschweig, Lower Saxony, Germany
T14-068D	659	T14	Neuroimmunology and neuroinflammation	Coexistence of different damage-associated myeloid populations in the hippocampus of Alzheimer's patients	<b>E. Sanchez-Mejias</b> <sup>1</sup> , M. Mejias-Ortega <sup>1</sup> , C. Muñoz-Castro <sup>2</sup> , J. C. Davila <sup>1</sup> , J. Vitorica <sup>2</sup> , A. Gutierrez <sup>1</sup>	<sup>1</sup> Department of Cell Biology, Faculty of Sciences, University of Málaga/CIBERNED/IBIMA, Malaga, Spain <sup>2</sup> Department of Biochemistry and Molecular Biology, Faculty of Pharmacy, University of Seville/CIBERNED/IBIS, Seville, Spain
T14-069D	669	T14	Neuroimmunology and neuroinflammation	Essential omega-3 fatty acids tune microglial phagocytosis of synaptic elements in the mouse developing brain	<b>M. Rossitto</b> <sup>1</sup> , M. Martinat <sup>1</sup> , C. Madore-Delpech <sup>1</sup> , A. Aubert <sup>1</sup> , A. Séré <sup>1</sup> , J. - C. Delpech <sup>1</sup> , C. Joffre <sup>1</sup> , S. Layé <sup>1</sup>	<sup>1</sup> INRAE, AlimH/NutriNeuro, Bordeaux, France

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T14-070D	676	T14	Neuroimmunology and neuroinflammation	Involvement of neuroinflammation processes in nociceptive defects of <i>Fmr1</i> KO mice, model of Fragile X syndrome.	<b>V. de Concini</b> <sup>1</sup> , A. Menuet <sup>1</sup>	<sup>1</sup> Immunologie Neurogénétique Expérimentales et Moléculaires, CNRS UMR7355, Université d'Orléans, Orléans, France
T14-071E	685	T14	Neuroimmunology and neuroinflammation	Astrocytes and microglia are involved in myelin degeneration and repair by modulating the inflammatory environment	<b>E. Buttigieg</b> <sup>1,2,3</sup> , B. El Waly <sup>1,2</sup> , A. Scheller <sup>3</sup> , F. Debarbieux <sup>1,2</sup> , F. Kirchoff <sup>3</sup>	<sup>1</sup> University of Aix-Marseille, Institut de Neurosciences de la Timone, INT, Marseille, France <sup>2</sup> University of Aix-Marseille, Centre Européen de Recherche en Imagerie Médicale, CERIMED, Marseille, France <sup>3</sup> University of Saarland, department of Molecular physiology, CIPMM, Homburg, Saarland, Germany
T14-072E	693	T14	Neuroimmunology and neuroinflammation	Interrogating microglial engulfment of synaptic terminals using FEAST	<b>L. Dissing-Olesen</b> <sup>1,2,3</sup> , A. Walker <sup>1,2,3</sup> , Q. Fang <sup>1</sup> , L. Xie <sup>1</sup> , D. Wilton <sup>1,2,3</sup> , I. Das <sup>1</sup> , L. Benowitz <sup>1,2</sup> , B. Stevens <sup>1,2,3</sup>	<sup>1</sup> Boston Children's Hospital, F.M. Kirby Neurobiology Center, Boston, Massachusetts, United States of America <sup>2</sup> Harvard Medical School, Boston, Massachusetts, United States of America <sup>3</sup> Stanley Center for Psychiatric Research, Broad Institute of MIT and Harvard, Cambridge, Massachusetts, United States of America
T14-073E	703	T14	Neuroimmunology and neuroinflammation	Anxiety and mild microglial activation in the amygdala two weeks after NA-induced neuroinflammation	<b>A. León-Rodríguez</b> <sup>1</sup> , M. D. M. Fernández-Arjona <sup>1,3</sup> , J. M. Grondona <sup>1,3</sup> , C. Pedraza <sup>2,3</sup> , M. D. López-Ávalos <sup>1,3</sup>	<sup>1</sup> University of Málaga, Departamento de Biología Celular, Genética y Fisiología (Área de Fisiología Animal), Málaga, Spain <sup>2</sup> University of Málaga, Departamento de Psicobiología y Metodología en las CC, Málaga, Spain <sup>3</sup> Instituto de Investigación Biomédica de Málaga-IBIMA, Málaga, Spain
T14-074E	704	T14	Neuroimmunology and neuroinflammation	NEMO differentially affects astrocytes and microglia by NF-κB-dependent and -independent functions following brain injury	<b>E. Schilasky</b> <sup>1</sup> , J. Göbel <sup>1</sup> , S. Müller <sup>2,3</sup> , J. Altmüller <sup>4</sup> , M. Bergami <sup>1,3</sup>	<sup>1</sup> University Hospital Cologne, CECAD, Cologne, North Rhine-Westphalia, Germany <sup>2</sup> University of Cologne, CECAD, Cologne, North Rhine-Westphalia, Germany <sup>3</sup> University of Cologne, CMMC, Cologne, North Rhine-Westphalia, Germany <sup>4</sup> University of Cologne, CCG, Cologne, North Rhine-Westphalia, Germany
T14-075E	707	T14	Neuroimmunology and neuroinflammation	Leriglitazone decreases microglia activation and promotes protective phenotypes in several neuroinflammatory models of disease	<b>A. Vilalta</b> <sup>1</sup> , J. Berger <sup>2</sup> , S. Forss-Petter <sup>2</sup> , J. Bauer <sup>2</sup> , I. Weinhofer <sup>2</sup> , C. Solà <sup>3</sup> , M. Herrando-Grabulosa <sup>4</sup> , X. Navarro <sup>4</sup> , M. Martinell <sup>1</sup> , P. Pizcueta <sup>1</sup>	<sup>1</sup> Minoryx Therapeutics, Biology Department, Mataró, Spain <sup>2</sup> Medical University of Vienna, Center for Brain Research, Vienna, Austria <sup>3</sup> Institute of Biomedical Research of Barcelona, Departament Isquèmia Cerebral i Neurodegeneració/ IIBB-CSIC, Barcelona, Spain <sup>4</sup> Universitat Autònoma de Barcelona, Departament Biologia Cel·lular, Fisiologia i Immunologia/Facultat de Medicina/ Institut de Neurociències, Bellaterra, Spain
T14-076E	710	T14	Neuroimmunology and neuroinflammation	Exploiting astrocyte-specific neuroprotective and neuroregenerative mechanisms to stop progressive MS	<b>J. Kerkering</b> <sup>1</sup> , M. Alisch <sup>1</sup> , K. S. Rosiewicz <sup>1</sup> , T. Crowley <sup>1</sup> , V. Siffrin <sup>1</sup>	<sup>1</sup> Charité, Experimental and Clinical Research Center (ECRC), Berlin, Berlin, Germany
T14-077E	730	T14	Neuroimmunology and neuroinflammation	Role of CB2 receptor in the 5x FAD mouse model of Alzheimer's disease	<b>M. T. Grande</b> <sup>1</sup> , S. Ruiz de Martín Esteban <sup>1</sup> , A. M. Martínez-Relimpio <sup>1</sup> , A. Aranz <sup>1</sup> , R. M. Tolón <sup>1</sup> , C. J. Hillard <sup>2</sup> , J. Romero <sup>1</sup>	<sup>1</sup> Universidad Francisco de Vitoria, School of Pharmacy, Pozuelo de Alarcón, Spain <sup>2</sup> Medical College of Wisconsin, Neuroscience Research Center, Milwaukee, Wisconsin, United States of America
T14-078E	747	T14	Neuroimmunology and neuroinflammation	Microglia selective depletion delays EAE onset	<b>A. Montilla</b> <sup>1</sup> , A. Zabala <sup>1</sup> , M. Er-Lukowiak <sup>2</sup> , B. Rissiek <sup>2</sup> , A. Sierra <sup>1</sup> , C. Matute <sup>1</sup> , M. Domercq <sup>1</sup>	<sup>1</sup> Achucarro Basque Center for Neuroscience, CIBERNED and University of Basque Country UPV/EHU, Department of Neuroscience, Leioa, Spain <sup>2</sup> University Medical Center, Department of Neurology, Hamburg, Germany

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T14-079E	765	T14	Neuroimmunology and neuroinflammation	Modelling epilepsy seizures in vitro: A kainic acid-induced seizure model for studying the effect of IL-6 on the characteristics and functionality of hPSC-derived cortical neurons	<b>J. R. M. Lotila</b> <sup>1</sup> , R. Mzezewa <sup>1</sup> , H. Kiiski <sup>2</sup> , J. Peltola <sup>3</sup> , S. Hagman <sup>1</sup> , S. Narkilahti <sup>1</sup>	<sup>1</sup> Tampere University, Neuro Group, Faculty of Medicine and Health Technology, Tampere, Finland <sup>2</sup> Tampere University Hospital, Department of Intensive Care, Tampere, Finland <sup>3</sup> Tampere University, Department of Neurology, Tampere University Hospital and Faculty of Medicine and Health Technology, Tampere, Finland
T14-080E	769	T14	Neuroimmunology and neuroinflammation	MT5-MMP is a modulator of inflammation: a study in murine and human neural cells related to Alzheimer's disease	<b>D. J. Pilat</b> <sup>1</sup> , L. Garcia Gonzalez <sup>1</sup> , J. - M. Paumier <sup>1</sup> , L. Arnaud <sup>1</sup> , L. Greetham <sup>1</sup> , L. Louis <sup>1</sup> , P. Belio Mairal <sup>1</sup> , E. Di Pasquale <sup>1</sup> , D. Stephan <sup>1</sup> , M. Khrestchatsky <sup>1</sup> , E. Nivet <sup>1</sup> , K. Baranger <sup>1</sup> , S. Rivera <sup>1</sup>	<sup>1</sup> University Aix-Marseille, INP UMR 7051, Marseille, France
T14-081E	795	T14	Neuroimmunology and neuroinflammation	Reduced microglial responses to persistent joint inflammation in a model of Alzheimer's disease.	<b>G. Sideris-Lampretsas</b> <sup>1</sup> , M. Malcangio <sup>1</sup>	<sup>1</sup> King's College London, Wolfson Centre for Age-Related Diseases, London, United Kingdom
T14-082E	804	T14	Neuroimmunology and neuroinflammation	Reactive phenotype of astrocytes pre-exposed to CSF from multiple sclerosis patients with inflammatory phenotype.	<b>C. Matute Blanch</b> <sup>1</sup> , V. Brito <sup>2,3,4</sup> , L. Midaglia <sup>1</sup> , L. M. Villar <sup>5</sup> , G. Gerardo Garcia-Diaz Barriga <sup>6</sup> , L. Calvo-Barreiro <sup>1</sup> , R. Pintea <sup>1</sup> , X. Montalban <sup>1</sup> , M. Comabella <sup>1</sup>	<sup>1</sup> Institut de Recerca Vall d'Hebron (VHIR), Servei de Neurologia-Neuroimmunologia, Centre d'Esclerosi Múltiple de Catalunya (Cemcat), Barcelona, Spain <sup>2</sup> Universitat de Barcelona, Institut d'Investigacions Biomèdiques August Pi i Sunyer (IDIBAPS), Barcelona, Spain <sup>3</sup> Universitat de Barcelona, Departament de Biomedicina, Facultat de Medicina, Institut de Neurociències, Barcelona, Spain <sup>4</sup> Centro de Investigación Biomédica en Red sobre Enfermedades Neurodegenerativas (CIBERNED), Madrid, Spain <sup>5</sup> Hospital Universitario Ramón y Cajal, Instituto Ramón y Cajal de Investigación Sanitaria, Departments of Neurology and Immunology, Madrid, Spain <sup>6</sup> Evotec SE, Hamburg, Germany
T14-083E	825	T14	Neuroimmunology and neuroinflammation	Complement cascade-mediated synapse elimination in the developing hippocampus is synapse- and region-specific	<b>E. W. Salter</b> <sup>1,2</sup> , S. - L. Choi <sup>1</sup> , L. Ralph <sup>1,2</sup> , L. Zhang <sup>1</sup> , A. Kadia <sup>1</sup> , G. Lei <sup>1</sup> , J. Wang <sup>1</sup> , F. Jin <sup>1</sup> , G. Collingridge <sup>1,2,3</sup>	<sup>1</sup> Mount Sinai Hospital, Lunenfeld-Tanenbaum Research Institute, Toronto, Ontario, Canada <sup>2</sup> University of Toronto, Physiology, Toronto, Ontario, Canada <sup>3</sup> University of Toronto, Tanz Centre for Research in Neurodegenerative Diseases, Toronto, Ontario, Canada
T14-084E	850	T14	Neuroimmunology and neuroinflammation	Intracellular trafficking modulation by the cholesterol-dependent cytolysin pneumolysin from <i>S. pneumoniae</i> is critical for the initiation of neuroinflammatory response	S. Hupp <sup>1</sup> , C. Förtsch <sup>2</sup> , F. Graber <sup>3</sup> , T. Mitchell <sup>4</sup> , <b>A. Iliev</b> <sup>1,2</sup>	<sup>1</sup> University of Bern, Anatomy, Bern, Bern, Switzerland <sup>2</sup> University of Wuerzburg, Pharmacology, Wuerzburg, Bavaria, Germany <sup>3</sup> University of Bern, Pathology, Bern, Bern, Switzerland <sup>4</sup> University of Birmingham, School of Immunity and Infection, Birmingham, United Kingdom
T14-085E	866	T14	Neuroimmunology and neuroinflammation	Supraspinal Microglia Activation in K/C model of experimental Osteoarthritis	<b>I. M. Laranjeira</b> <sup>1,3</sup> , E. Apolinário <sup>1,3</sup> , D. Amorim <sup>1,3</sup> , A. Almeida <sup>1,3</sup> , A. Dias <sup>2</sup> , F. Pinto-Ribeiro <sup>1,3</sup>	<sup>1</sup> University of Minho, Life and Health Sciences Research Institute (ICVS), Braga, Portugal <sup>2</sup> University of Minho, CITAB - Centre for the Research and Technology of Agro-Environmental and Biological Sciences, Braga, Portugal <sup>3</sup> ICVS/3B's – PT Government Associate Laboratory, ICVS/3B's – PT Government Associate Laboratory, Guimarães, Portugal

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T14-086E	869	T14	Neuroimmunology and neuroinflammation	Fate mapping via Ccr2CreER: Ai14D mice to study monocytes-to-microglia transition after Traumatic Brain Injury	<b>M. S. Paladini</b> <sup>1,2</sup> , X. Feng <sup>1,2</sup> , S. Caryotakis <sup>1,2</sup> , S. Rosi <sup>1,2</sup>	<sup>1</sup> University of San Francisco, California, Department of Physical Therapy and Rehabilitation Science, San Francisco, California, United States of America <sup>2</sup> University of San Francisco, California, Brain and Spinal Injury Center, San Francisco, California, United States of America
T15-001A	253	T15	Neurovascular interactions	Increased expression of chemokine receptor CXCR4 in astrocyte endfeet at the neurovascular unit from mesial temporal lobe epilepsy patients with hippocampus sclerosis.	<b>E. Fidan</b> <sup>1</sup> , F. Bader <sup>2</sup> , K. H. Plate <sup>1</sup> , P. Harter <sup>1</sup> , S. Günther <sup>3</sup> , T. Freiman <sup>2</sup> , J. Konczalla <sup>2</sup> , K. Devraj <sup>1</sup> , S. Liebner <sup>1</sup>	<sup>1</sup> Goethe University Clinic, Institute of Neurology (Edinger Institute), Frankfurt am Main, Germany <sup>2</sup> Goethe University Clinic, Department of Neurosurgery, Frankfurt am Main, Germany <sup>3</sup> Max Planck Institute for Heart and Lung Research, Bioinformatics and Deep Sequencing Platform, Bad Nauheim, Germany
T15-002A	320	T15	Neurovascular interactions	Expression of the MLC1/GlialCAM complex in perivascular astrocyte endfeet defines a temporal window for the postnatal gliovascular unit maturation	<b>A. Gilbert</b> <sup>1,2</sup> , X. Elorza-Vidal <sup>1</sup> , A. - C. Boulay <sup>1</sup> , M. Cohen-Salmon <sup>1</sup>	<sup>1</sup> College de France , PSL Research University, Paris, France., Physiology and Physiopathology of the Gliovascular Unit Research Group, Center for Interdisciplinary Research in Biology (CIRB), CNRS Unité Mixte de Recherche 724, INSERM Unité 1050, Paris, France <sup>2</sup> Sorbonne University, Ecole doctorale Cerveau, cognition, comportement (ED3C), doctoral school 158, Paris, France
T15-003A	342	T15	Neurovascular interactions	Role of Hippocampal Glio-Vascular Interface in Sex- Dependent Outcome following Neonatal Inflammation	<b>M. Ardalan</b> <sup>1,2</sup> , T. Chumak <sup>1</sup> , R. Afsharipour <sup>1</sup> , E. Hermans <sup>1</sup> , A. Quist <sup>1</sup> , C. Mallard <sup>1</sup>	<sup>1</sup> Gothenburg University, Institute of Neuroscience and Physiology, Sahlgrenska Academy, Gothenburg, Sweden <sup>2</sup> Aarhus University, Translational Neuroschiatr Unit, Aarhus, Denmark
T15-004A	376	T15	Neurovascular interactions	Extracellular vesicles from astrocytes of 3TG-AD mice fail to suppress tert-Butyl hydroperoxide-induced mitochondrial oxidative stress in brain endothelial cells	<b>K. Kriaučiūnaitė</b> <sup>1</sup> , G. Vydmantaitė <sup>1</sup> , A. Pociūtė <sup>1</sup> , D. Lim <sup>2</sup> , A. Verkhatsky <sup>1,3</sup> , A. Pivoriūnas <sup>1</sup>	<sup>1</sup> State Research Institute Centre for Innovative Medicine, Department of Stem Cell Biology, Vilnius, Lithuania <sup>2</sup> Università del Piemonte Orientale, Department of Pharmaceutical Sciences, Novara, Italy <sup>3</sup> The University of Manchester, Faculty of Biology, Medicine and Health, Manchester, United Kingdom
T15-005A	589	T15	Neurovascular interactions	Cerebral Small Vessel Disease novel rat model: endothelial cell dysfunction affects oligodendroglia maturation	<b>S. Quick</b> <sup>1</sup> , J. Moss <sup>1</sup> , A. Vallatos <sup>2</sup> , J. Wardlaw <sup>2</sup> , A. Williams <sup>1</sup>	<sup>1</sup> University of Edinburgh, Centre for Regenerative Medicine, Edinburgh, United Kingdom <sup>2</sup> University of Edinburgh, Centre for Clinical Brain Sciences, Edinburgh, United Kingdom
T15-006B	612	T15	Neurovascular interactions	Role of astrocytes in the dopaminergic modulation of the vascular tone in the spinal cord	<b>A. Montalant</b> <sup>1</sup> , O. Kiehn <sup>1</sup> , J. - F. Perrier <sup>1</sup>	<sup>1</sup> University of Copenhagen, Department of Neuroscience, Copenhagen, Denmark
T15-007B	617	T15	Neurovascular interactions	Endothelial cells and astrocytes, main component of the blood brain barrier, as new targets for the modulation of the sphingosine-1-phosphate receptor	<b>S. F. Spampinato</b> <sup>1</sup> , G. Costantino <sup>1</sup> , S. Merlo <sup>1</sup> , M. A. Sortino <sup>1</sup>	<sup>1</sup> University of Catania, Biomedical and Biotechnological Sciences, Catania, Italy
T15-008B	629	T15	Neurovascular interactions	Role of astrocytes in development and progression of primary familial brain calcification	<b>U. Maheshwari</b> <sup>1,2</sup> , A. Keller <sup>1,2</sup>	<sup>1</sup> University Hospital Zürich, Department of Neurosurgery, Clinical Neuroscience Center, Schlieren, Zürich, Switzerland <sup>2</sup> University of Zürich, Neuroscience Center, Zürich, Zürich, Switzerland

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T15-009B	713	T15	Neurovascular interactions	Platelets' regulatory role on postnatal brain Neural Stem Cells of the Subependymal Zone.	<b>C. Dimitriou</b> <sup>1,2</sup> , M. Giachali <sup>1</sup> , D. Lagogiannis <sup>1</sup> , M. Anesti <sup>1</sup> , C. Ghevaert <sup>3</sup> , R. Franklin <sup>2</sup> , F. Rivera <sup>4,5</sup> , I. Kazanis <sup>1,2</sup>	<sup>1</sup> University of Patras, Laboratory of Developmental Biology, Division of Genetics Cell and Developmental Biology, Department of Biology, Rio, Greece <sup>2</sup> University of Cambridge, Wellcome – MRC Cambridge Stem Cell Institute & Department of Clinical Neurosciences, Cambridge, United Kingdom <sup>3</sup> University of Cambridge, Wellcome – MRC Cambridge Stem Cell Institute & Department of Haematology, Cambridge, United Kingdom <sup>4</sup> Paracelsus Medical University, Institute of Molecular Regenerative Medicine, Salzburg, Austria <sup>5</sup> Universidad Austral de Chile, Laboratory of Stem Cells and Neuroregeneration, Faculty of Medicine, Institute of Anatomy, Histology and Pathology, Valdivia, Chile
T15-010B	812	T15	Neurovascular interactions	Astrocyte mechanosensitivity is amplified by albumin	<b>D. R. Ballesteros Gomez</b> <sup>1</sup> , S. McCutcheon <sup>1</sup> , D. Spray <sup>1</sup>	<sup>1</sup> Albert Einstein College of Medicine, Dominick P. Purpura Department of Neuroscience, The Bronx, New York, United States of America
T16-001B	9	T16	Regeneration and repair	Viability of rat organotypic spinal cord slices from different aged male and female rats both uninjured and when subjected to in vitro injury.	<b>C. Shortiss</b> <sup>1</sup> , L. Howard <sup>2</sup> , S. McMahon <sup>1,2</sup>	<sup>1</sup> National University of Ireland Galway, Dept of Anatomy, Galway, Ireland <sup>2</sup> National University of Ireland Galway, Regenerative Medicine institute, Galway, Ireland
T16-002B	18	T16	Regeneration and repair	Peripheral Nerve Maintenance after Injury and in Chronic Disease	<b>L. Daboussi</b> <sup>1</sup> , V. Pessino <sup>1</sup> , M. Gullo <sup>1</sup> , G. Costaguta <sup>1</sup> , H. Forman <sup>1</sup> , N. Jasinski <sup>1</sup> , B. O'Leary <sup>1</sup> , S. Driscoll <sup>1</sup> , S. L. Pfaff <sup>1</sup>	<sup>1</sup> Salk Institute for Biological Studies, Gene Expression Laboratories-Pfaff, La Jolla, California, United States of America
T16-003B	74	T16	Regeneration and repair	Genomic and functional analyses reveal subtle differences between human skin and nerve derived Schwann cells	T. Ho Chu <sup>1</sup> , E. Labit <sup>1</sup> , K. Baral <sup>1</sup> , S. Sinha <sup>1</sup> , N. Rosin <sup>1</sup> , D. Umansky <sup>1</sup> , J. Biernaskie <sup>1</sup> , <b>R. Midha</b> <sup>1</sup>	<sup>1</sup> Univ of Calgary, Calgary, Alberta, Canada
T16-004B	101	T16	Regeneration and repair	Control chromatin remodelling enzymes in Schwann cells to improve peripheral nerve regeneration	<b>N. Hertzog</b> <sup>1</sup> , M. Duman <sup>2</sup> , V. Brügger <sup>2</sup> , M. Bochud <sup>2</sup> , C. Jacob <sup>1</sup>	<sup>1</sup> Johannes Gutenberg University Mainz, Institute of Developmental Biology and Neurobiology, Mainz, Rhineland-Palatinate, Germany <sup>2</sup> University of Fribourg, Department of Biology, Fribourg, Fribourg, Switzerland
T16-005B	105	T16	Regeneration and repair	A transcriptomic atlas of remyelination reveals diverse neural-immune states	<b>M. - J. Dolan</b> <sup>1</sup> , N. Nadaf <sup>1</sup> , E. Macosko <sup>1</sup> , B. Stevens <sup>1,2</sup>	<sup>1</sup> Broad Institute of MIT and Harvard, Stanley Center for Psychiatric Research, Cambridge, Massachusetts, United States of America <sup>2</sup> Boston Children's Hospital, Harvard Medical School, Neurology F.M. Kirby Neurobiology Center, Boston, Massachusetts, United States of America
T16-006B	153	T16	Regeneration and repair	Investigating Schwann cell and oligodendrocyte plasticity after lesion	<b>G. Nocera</b> <sup>1,2</sup> , C. Jacob <sup>1,2</sup>	<sup>1</sup> Johannes Gutenberg University Mainz, Institute of Developmental Biology and Neurobiology, Mainz, Germany <sup>2</sup> University of Fribourg, Biology, Fribourg, Switzerland
T16-007B	166	T16	Regeneration and repair	Acute Injury Activates the CRH System in NG2 Glia	<b>C. Ries</b> <sup>1,2,3</sup> , S. Chang <sup>1,2</sup> , L. Urbina Trevino <sup>1,2</sup> , J. Deussing <sup>1</sup>	<sup>1</sup> Max Planck Institute of Psychiatry, Molecular Neurogenetics, Munich, Bavaria, Germany <sup>2</sup> Graduate School of Systemic Neuroscience, Planegg-Martinsried, Bavaria, Germany <sup>3</sup> International Max Planck Research School for Translational Psychiatry, Munich, Bavaria, Germany
T16-008B	203	T16	Regeneration and repair	Histone Deacetylases 4,5 and 7 promote peripheral nerve myelination during development and remyelination after injury	<b>S. V. Avilés</b> <sup>1,2</sup> , N. Patel <sup>1,2</sup> , A. C. Bajo <sup>1,2</sup> , J. A. G. Sanchez <sup>1</sup> , H. C. Marti <sup>1,2</sup>	<sup>1</sup> Universidad Miguel Hernández, Instituto de Neurociencias, San Juan, Spain <sup>2</sup> Hospital General Universitario de Alicante, Instituto de Investigación Sanitaria y Biomédica de Alicante (ISABIAL), Alicante, Spain

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<b>T16-009B</b>	<b>210</b>	T16	Regeneration and repair	Oligodendrocyte heterogeneity during myelin regeneration	<b>S. A. Neely</b> <sup>1</sup> , J. M. Williamson <sup>1</sup> , A. Klingseisen <sup>1</sup> , L. Zoupi <sup>2</sup> , J. J. Early <sup>1</sup> , K. L. H. Marshall-Phelps <sup>1</sup> , A. Williams <sup>2</sup> , D. A. Lyons <sup>1</sup>	<sup>1</sup> University of Edinburgh, Centre for Discovery Brain Sciences, Edinburgh, United Kingdom <sup>2</sup> University of Edinburgh, Centre for Regenerative Medicine, Institute for Regeneration and Repair, Edinburgh, United Kingdom
<b>T16-010B</b>	<b>241</b>	T16	Regeneration and repair	Schwann cell reprogramming for improved nerve repair	L. C. Belfiore <sup>1,3</sup> , A. Balakrishnan <sup>2,3</sup> , D. Zinyk <sup>3</sup> , R. Midha <sup>4</sup> , J. Biernaskie <sup>5</sup> , <b>C. Schuurmans</b> <sup>1,2,3</sup>	<sup>1</sup> University of Toronto, Laboratory Medicine and Pathobiology, Toronto, Ontario, Canada <sup>2</sup> University of Toronto, Biochemistry, Toronto, Ontario, Canada <sup>3</sup> Sunnybrook Research Institute, Biological Sciences, Toronto, Ontario, Canada <sup>4</sup> University of Calgary, Clinical Neurosciences, Calgary, Alberta, Canada <sup>5</sup> University of Calgary, Comparative Biology and Experimental Medicine, Calgary, Alberta, Canada
<b>T16-011C</b>	<b>301</b>	T16	Regeneration and repair	The matricellular protein Connective Tissue Growth Factor promotes motor axon regeneration	<b>S. Negro</b> <sup>1</sup> , F. Lauria <sup>2</sup> , M. Stazi <sup>1</sup> , T. Tebaldi <sup>4,3</sup> , G. D'Este <sup>1</sup> , M. Pirazzini <sup>1</sup> , A. Megighian <sup>1,5</sup> , F. Lessi <sup>6</sup> , C. M. Mazzanti <sup>6</sup> , G. Sales <sup>7</sup> , C. Romualdi <sup>7</sup> , G. Viero <sup>2</sup> , M. Rigoni <sup>1</sup>	<sup>1</sup> University of Padova, Department of Biomedical Sciences, Padova, Italy <sup>2</sup> CNR Unit, Institute of Biophysics, Trento, Italy <sup>3</sup> University of Trento, Centre for Integrative Biology, Trento, Italy <sup>4</sup> Yale University School of Medicine, Yale Cancer Center, New Haven, Connecticut, United States of America <sup>5</sup> University of Padova, Padova Neuroscience Center, Padova, Italy <sup>6</sup> Pisa Science Foundation, Laboratory of Genomics, Pisa, Italy <sup>7</sup> University of Padova, Department of Biology, Padova, Italy
<b>T16-012C</b>	<b>311</b>	T16	Regeneration and repair	Heparan Sulphate mimetics as a therapeutic for central nervous system repair	<b>R. Sherrard Smith</b> <sup>1</sup> , S. L. Lindsay <sup>1</sup> , C. Goodyear <sup>1</sup> , J. Turnbull <sup>2</sup> , S. C. Barnett <sup>1</sup>	<sup>1</sup> University of Glasgow, Institute of Infection, Inflammation and Immunity, Glasgow, United Kingdom <sup>2</sup> University of Liverpool, Institute of Integrative Biology, Liverpool, United Kingdom
<b>T16-013C</b>	<b>329</b>	T16	Regeneration and repair	The pharmacological co-activation of Smoothed and the androgen receptor results in an unexpected therapeutic cooperation in models of central nervous system demyelination	<b>A. Kassoussi</b> <sup>1</sup> , A. Zahaf <sup>1</sup> , Y. Laouarem <sup>1</sup> , T. Hutteau-Hamel <sup>2</sup> , A. Mellouk <sup>2</sup> , P. Bobé <sup>2</sup> , C. Mattern <sup>3</sup> , M. Schumacher <sup>1</sup> , E. Traiffort <sup>1</sup>	<sup>1</sup> INSERM-University Paris-Saclay, U1195, Le Kremlin-Bicêtre, France <sup>2</sup> INSERM-University Paris-Saclay, UMR996, Clamart, France <sup>3</sup> Nova Southeastern University, Oceanographic Center, Fort Lauderdale, Florida, United States of America
<b>T16-014C</b>	<b>356</b>	T16	Regeneration and repair	Characterising the Schwann cell early injury response in mouse and zebrafish	<b>C. Mutschler</b> <sup>1</sup> , J. Gomez-Sanchez <sup>4</sup> , D. Chairugi <sup>3</sup> , S. Fazal <sup>1</sup> , A. Loreto <sup>1</sup> , H. Cabedo <sup>4</sup> , B. House <sup>1</sup> , K. Monk <sup>5</sup> , B. Steventon <sup>2</sup> , M. Coleman <sup>1</sup> , <b>P. Arthur-Farraj</b> <sup>1</sup>	<sup>1</sup> University of Cambridge, Department Clinical Neurosciences, Cambridge, United Kingdom <sup>2</sup> University of Cambridge, Department of Genetics, Cambridge, United Kingdom <sup>3</sup> University of Cambridge, Institute of Metabolic Science, Cambridge, United Kingdom <sup>4</sup> Universidad Miguel Hernández-€SIC, Instituto de Neurociencias de Alicante, Alicante, Spain <sup>5</sup> Oregon Health and Science Univeristy, Vollum Institute, Portland, Oregon, United States of America



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T16-015C	359	T16	Regeneration and repair	Ageing Alters Pericytes Response to Demyelination – Consequences for Myelin Repair?	<b>F. J. Rivera</b> <sup>1,2,3</sup> , C. Espinoza <sup>1,2</sup> , B. Hinrichsen <sup>1,2,5</sup> , A. Philp <sup>1,2,5</sup> , J. Mansilla <sup>1,2</sup> , M. E. Silva <sup>1,2,4</sup> , A. G. De la Fuente <sup>5,6</sup> , O. Errea <sup>5</sup> , P. van Wijngaarden <sup>5,7,8</sup> , C. Zhao <sup>5</sup> , L. Aigner <sup>3</sup> , R. J. Franklin <sup>5</sup>	<sup>1</sup> Universidad Austral de Chile, Laboratory of Stem Cells and Neuroregeneration, Institute of Anatomy, Histology and Pathology, Faculty of Medicine, Valdivia, Chile <sup>2</sup> Universidad Austral de Chile, Center for Interdisciplinary Studies on the Nervous System (CISNe), Valdivia, Chile <sup>3</sup> Paracelsus Medical University, Institute of Molecular Regenerative Medicine & Spinal Cord Injury and Tissue Regeneration Center Salzburg (SCI-TReCS), Salzburg, Salzburg, Austria <sup>4</sup> Universidad Austral de Chile, Institute of Pharmacy, Faculty of Sciences, Valdivia, Chile <sup>5</sup> University of Cambridge, Wellcome-Medical Research Council Cambridge Stem Cell Institute, Cambridge, United Kingdom <sup>6</sup> Queen's University Belfast, Wellcome-Wolfson Institute for Experimental Medicine, Belfast, United Kingdom <sup>7</sup> Royal Victorian Eye and Ear Hospital, Centre for Eye Research Australia, Melbourne, Australia <sup>8</sup> University of Melbourne, Ophthalmology, Department of Surgery, Melbourne,
T16-016C	435	T16	Regeneration and repair	The role of class IIa HDACs in Aged Schwann cells.	<b>N. Patel</b> <sup>1,2</sup> , S. Velasco Avilés <sup>1,2</sup> , ?. Casillas Bajo <sup>1,2</sup> , J. A. Gomez Sanchez <sup>2</sup> , H. Cabedo <sup>1,2</sup>	<sup>1</sup> Instituto de Investigación Sanitaria y Biomédica de Alicante, Alicante, Spain <sup>2</sup> Instituto de Neurociencias de Alicante, San Juan, Spain
T16-017C	441	T16	Regeneration and repair	Direct conversion of adult rat olfactory ensheathing glia (OEG) into neurons, with small molecules.	<b>J. Sierra</b> <sup>1</sup> , M. Portela-Lomba <sup>1,2</sup> , D. Simón <sup>1</sup> , M. T. Moreno-Flores <sup>2</sup>	<sup>1</sup> Universidad Francisco de Vitoria, Facultad de Ciencias Experimentales, Pozuelo de Alarcón, Spain <sup>2</sup> Universidad Autónoma de Madrid. Facultad de Medicina. Madrid. Spain
T16-018C	443	T16	Regeneration and repair	Direct conversion of adult human olfactory ensheathing glia (OEG) into neurons	<b>M. Portela-Lomba</b> <sup>1,2</sup> , D. Simon <sup>1</sup> , M. T. Moreno-Flores <sup>2</sup> , J. Sierra <sup>1</sup>	<sup>1</sup> Universidad Francisco de Vitoria, Facultad de Ciencias Experimentales, Pozuelo de Alarcón, Spain <sup>2</sup> Universidad Autónoma de Madrid. Facultad de Medicina. Madrid. Spain
T16-019C	483	T16	Regeneration and repair	A zebrafish model to investigate the cellular mechanisms of neurodegeneration following demyelination	<b>K. Marshall-Phelps</b> <sup>1</sup> , S. Neely <sup>1</sup> , D. Arafa <sup>1</sup> , J. van de Korput <sup>1</sup> , D. Lyons <sup>1</sup>	<sup>1</sup> University of Edinburgh, Centre for Discovery Brain Sciences, Edinburgh, United Kingdom
T16-020C	486	T16	Regeneration and repair	Reduction of microglia proliferation after spinal cord injury in mice and nonhuman primates improves functional recovery	<b>G. Poulen</b> <sup>1</sup> , E. Aloy <sup>1</sup> , N. Mestre Frances <sup>2</sup> , E. V. Artus <sup>1</sup> , J. - C. Perez <sup>1</sup> , H. Boukhaddaoui <sup>3</sup> , N. Lonjon <sup>1</sup> , Y. N. Gerber <sup>1</sup> , F. E. Perrin <sup>1</sup>	<sup>1</sup> University of Montpellier, MMDN, Montpellier, France <sup>2</sup> University of Montpellier, EPHE, MMDN, Montpellier, France <sup>3</sup> INSERM U1051, Institute for Neurosciences of Montpellier, Montpellier, France
T16-021D	498	T16	Regeneration and repair	Enhancing remyelination with CRISPR/Cas9 edited human oligodendrocyte progenitor cells	<b>L. Wagstaff</b> <sup>1</sup> , M. Kaczmarek <sup>1</sup> , A. Fidanza <sup>1</sup> , R. J. M. Franklin <sup>2</sup> , A. C. Williams <sup>1</sup>	<sup>1</sup> The University of Edinburgh, Centre for Regenerative Medicine, Institute of Regeneration and Repair, MS Society UK Edinburgh Research Centre, Edinburgh bioQuarter, Edinburgh, United Kingdom <sup>2</sup> The University of Cambridge, Wellcome - MRC Cambridge Stem Cell Institute, Cambridge, United Kingdom

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T16-022D	510	T16	Regeneration and repair	Exposure to fine particulate matter (PM) hampers myelin repair in a mouse model of white matter demyelination	<b>R. Parolisi</b> <sup>1,2</sup> , F. Montarolo <sup>2,3,4</sup> , A. Pini <sup>5</sup> , S. Rovelli <sup>6</sup> , A. Cattaneo <sup>6</sup> , A. Bertolotto <sup>2,3</sup> , A. Buffo <sup>1,2</sup> , V. Bollati <sup>7</sup> , E. Boda <sup>1,2</sup>	<sup>1</sup> University of Turin, Department of Neuroscience Rita Levi-Montalcini, Turin, Italy <sup>2</sup> University of Turin, Neuroscience Institute Cavalieri Ottolenghi (NICO), Orbassano (Turin), Italy <sup>3</sup> Neurology-CReSM (Regional Referring Center of Multiple Sclerosis), Neurobiology Unit, Orbassano (Turin), Italy <sup>4</sup> University of Turin, Department of Molecular Biotechnology and Health Sciences, Turin, Italy <sup>5</sup> University of Florence, Department of Clinical and Experimental Medicine, Florence, Italy <sup>6</sup> University of Insubria, Department of Science and High Technology, Como, Italy <sup>7</sup> University of Milan, Department of Clinical Sciences and Community Health, Milan, Italy
T16-023D	516	T16	Regeneration and repair	MMP2 as a possible modulator of the inflammatory response during axonal regeneration in the mouse visual system	<b>L. Andries</b> <sup>1</sup> , L. Masin <sup>1</sup> , E. Lefevre <sup>1</sup> , M. Salinas-Navarro <sup>1</sup> , K. Movahedi <sup>2</sup> , L. De Groef <sup>1</sup> , L. Moons <sup>1</sup>	<sup>1</sup> KU Leuven, Biology, Leuven, Belgium <sup>2</sup> VUB, Biology, Brussels, Belgium
T16-024D	542	T16	Regeneration and repair	Profiling the molecular signature of Satellite Glial Cells in healthy and diseased states reveals key pathways for neural repair	<b>O. Avraham</b> <sup>1</sup> , R. Feng <sup>1</sup> , E. Ewan <sup>1</sup> , G. Zhao <sup>1</sup> , P. - Y. Deng <sup>2</sup> , A. Chamesian <sup>3</sup> , R. Gereau <sup>3</sup> , V. Klyachko <sup>2</sup> , V. Cavalli <sup>1</sup>	<sup>1</sup> Washington University School of Medicine, Department of Neuroscience, St Louis, Missouri, United States of America <sup>2</sup> Washington University School of Medicine, Department of Cell Biology and Physiology, St. Louis, Missouri, United States of America <sup>3</sup> Washington University School of Medicine, Department of Anesthesiology and Washington University Pain Center, St. Louis, Missouri, United States of America
T16-025D	593	T16	Regeneration and repair	Morphometric analyses of Clonally-Related Cortical NG2-Cells in Different Multiple Sclerosis Brain Model's Scenarios	<b>S. Barriola</b> <sup>1</sup> , L. M. Delgado-García <sup>2,1</sup> , E. López-Martínez <sup>1</sup> , N. Salvador <sup>1</sup> , A. C. Ojalvo-Sanz <sup>1</sup> , R. Sánchez-González <sup>1</sup> , L. López-Mascaraque <sup>1</sup>	<sup>1</sup> Molecular, Cellular and Developmental Neurobiology Department, Instituto Cajal-CSIC, Madrid, Spain <sup>2</sup> Laboratory of Molecular Neurobiology, Universidade Federal de São Paulo, São Paulo, Brazil
T16-026D	615	T16	Regeneration and repair	Investigation of IL-22 in CNS regeneration	<b>K. Mayne</b> <sup>1</sup> , A. Guzman de la Fuente <sup>1</sup> , A. Young <sup>1</sup> , E. L. Campbell <sup>1</sup> , R. J. Ingram <sup>1</sup> , Y. Dombrowski <sup>1</sup> , D. C. Fitzgerald <sup>1</sup>	<sup>1</sup> Queen's University Belfast, Wellcome-Wolfson Institute for Experimental Medicine, Belfast, United Kingdom
T16-027D	639	T16	Regeneration and repair	Functions of histone demethylases in developmental myelination and remyelination after lesion	<b>C. Gonsior</b> <sup>1</sup> , M. Duman <sup>1</sup> , G. Nocera <sup>1</sup> , N. Hertzog <sup>1</sup> , C. Jacob <sup>1</sup>	<sup>1</sup> University of Mainz, Cellular Neurobiology / Institute of Developmental Biology and Neurobiology, Mainz, Rhineland-Palatinate, Germany
T16-028D	701	T16	Regeneration and repair	Repurposing of edaravone as myelin regenerative drug: chemical and biological characterization of novel small molecule derivatives	<b>A. Formato</b> <sup>1</sup> , C. Minnelli <sup>2</sup> , G. Mele <sup>1</sup> , E. Colombo <sup>3</sup> , S. Corbisiero <sup>1</sup> , P. Seneci <sup>3</sup> , G. Mobbili <sup>2</sup> , C. Veroni <sup>1</sup> , S. Olla <sup>4</sup> , C. Agresti <sup>1</sup>	<sup>1</sup> Department of Neuroscience, Istituto Superiore di Sanità, Rome, Italy <sup>2</sup> Dipartimento di Scienze della Vita e dell'Ambiente, Università Politecnica delle Marche, Ancona, Italy <sup>3</sup> Department of Chemistry, University of Milan, Milan, Italy <sup>4</sup> Istituto di Ricerca Genetica e Biomedica, Consiglio Nazionale delle Ricerche, Monserrato, Italy

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T16-029D	723	T16	Regeneration and repair	ApoA-I mimetic peptide 5A boosts remyelination by promoting myelin debris clearance	<b>S. Vanherle</b> <sup>1</sup> , T. Dierckx <sup>1</sup> , M. Loix <sup>1</sup> , W. Jorissen <sup>1</sup> , P. Gervois <sup>2</sup> , I. Lambrichts <sup>2</sup> , J. Dehairs <sup>3</sup> , J. Swinnen <sup>3</sup> , M. Mulder <sup>4</sup> , A. Remaley <sup>5</sup> , M. Haidar <sup>1</sup> , J. Bogie <sup>1</sup> , J. Hendriks <sup>1</sup>	<sup>1</sup> Hasselt University, Department of Immunology and Infection, Biomedical Research Institute, Diepenbeek, Belgium <sup>2</sup> Hasselt University, Department of Cardio and Organs Systems, Biomedical Research Institute, Diepenbeek, Belgium <sup>3</sup> University of Leuven, Department of Oncology, Laboratory of Lipid Metabolism and Cancer, Leuven Cancer Institute, Leuven, Belgium <sup>4</sup> Erasmus University Medical Center, Department of Internal Medicine, Rotterdam, Netherlands <sup>5</sup> National Institutes of Health, Lipoprotein Metabolism Laboratory, Translational Vascular Medicine Branch, National Heart, Lung, and Blood Institute, Bethesda, Maryland, United States of America
T16-030D	725	T16	Regeneration and repair	Harnessing the regenerative potential of cortical glia through Ascl1-mediated lineage reprogramming	<b>S. Péron</b> <sup>1,2,3</sup> , N. Marichal <sup>2</sup> , A. Beltrán-Arranz <sup>2</sup> , C. Galante <sup>1</sup> , C. de Sá Fernandes <sup>1</sup> , B. Berninger <sup>1,2,3</sup>	<sup>1</sup> University Medical Center, Johannes Gutenberg University Mainz, Institute of Physiological Chemistry, Mainz, Germany <sup>2</sup> King's College London, Centre for Developmental Neurobiology, Institute of Psychiatry, Psychology & Neuroscience, London, United Kingdom <sup>3</sup> King's College London, MRC Centre for Neurodevelopmental Disorders, Institute of Psychiatry, Psychology & Neuroscience, London, United Kingdom
T16-031E	758	T16	Regeneration and repair	Endothelin-1 signaling regulates the neural stem cell response to demyelination	<b>K. Adams</b> <sup>1</sup> , P. Banerjee <sup>1</sup> , M. Bugiani <sup>2</sup> , V. Gallo <sup>1</sup>	<sup>1</sup> Children's National Hospital, Center for Neuroscience Research, Children's Research Institute, DC, Washington, United States of America <sup>2</sup> VU University Medical Center, Department of Pathology, Amsterdam, Netherlands
T16-032E	767	T16	Regeneration and repair	Phloretin enhances remyelination by stimulating OPC differentiation	<b>T. Dierckx</b> <sup>1</sup> , S. Vanherle <sup>1</sup> , M. Haidar <sup>1</sup> , E. Grajchen <sup>1</sup> , P. Gervois <sup>1</sup> , D. Bylemans <sup>2</sup> , A. Voet <sup>3</sup> , T. Nguyen <sup>3</sup> , J. F. Bogie <sup>1</sup> , J. J. Hendriks <sup>1</sup>	<sup>1</sup> U Hasselt, Biomedical Research Institute, Hasselt, Belgium <sup>2</sup> KULeuven, Department of Biosystems, Leuven, Belgium <sup>3</sup> KULeuven, Department of Chemistry, Laboratory for Biomolecular Modelling and Design, Leuven, Belgium
T16-033E	808	T16	Regeneration and repair	Smoothed signalling during OPC differentiation	<b>A. Del Giovane</b> <sup>1</sup> , S. Balestri <sup>1</sup> , C. Sposato <sup>1</sup> , M. Ferrarelli <sup>1</sup> , M. Russo <sup>2</sup> , A. Kassoussi <sup>3</sup> , M. Ruat <sup>2</sup> , E. Traiffort <sup>3</sup> , A. Ragnini-Wilson <sup>1</sup>	<sup>1</sup> Università degli studi di Roma Tor Vergata, Department of Biology, NeurotechIT Laboratory, Roma, Italy <sup>2</sup> Université Paris Saclay, Neuroscience Paris-Saclay Institute, Signal Transduction and Developmental Neuropharmacology group, Gif-Yvette, France <sup>3</sup> INSERM U1195, Université Paris Saclay, Team 'Glial Cells, Regeneration and Plasticity', Le Kremlin-Bicêtre, France
T16-034E	817	T16	Regeneration and repair	Secreted factors from activated antigen-specific CAR-Treg enhance oligodendrocyte differentiation and ex vivo remyelination	<b>M. Dittmer</b> <sup>1</sup> , J. Frikeche <sup>2</sup> , X. Mouska <sup>2</sup> , C. Dumont <sup>2</sup> , D. C. Fitzgerald <sup>1</sup>	<sup>1</sup> Queen's University Belfast, Belfast, United Kingdom <sup>2</sup> Sangamo Therapeutics France SAS, Valbonne, France
T16-035E	818	T16	Regeneration and repair	Membrane targeting peptide: new drug to target LINGO-1, p75, TROY and AMIGO3 platform to reverse remyelination failure in MS	<b>L. D. Pham-Van</b> <sup>1,4</sup> , F. Binamé <sup>1,4</sup> , D. Birmibili <sup>1,4</sup> , T. Kuntzel <sup>1,4</sup> , C. Spenlé <sup>1</sup> , M. Van der Heyden <sup>1</sup> , S. Morisset-Lopez <sup>3</sup> , D. Bagnard <sup>1,4,2</sup>	<sup>1</sup> INSERM, U1119 Biopathology of Myelin, Neuroprotection and therapeutic strategy, ILLKIRCH GRAFENSTADEN, France <sup>2</sup> Institut du médicament Strasbourg, Medalis, STRASBOURG, France <sup>3</sup> Centre de Biophysique Moléculaire, Département biologie cellulaire et cibles thérapeutiques, CNRS, UPR 4301, Orléans, France <sup>4</sup> University of Strasbourg, IJMS, STRASBOURG, France

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T16-036E	830	T16	Regeneration and repair	<i>Plagl1</i> is required to sustain murine Müller glial cell quiescence and retinal homeostasis	<b>Y. Touahri</b> <sup>1,2,5</sup> , L. A. David <sup>1,6</sup> , Y. Ilytsky <sup>7</sup> , J. Hanna <sup>1,6</sup> , E. van Oosten <sup>1,2</sup> , N. Tachibana <sup>1,3</sup> , L. Adnani <sup>1,3</sup> , X. Zhao <sup>1,2</sup> , M. Hoffmann <sup>3,4</sup> , R. Dixit <sup>1,2</sup> , L. Journot <sup>8</sup> , Y. Sauve <sup>9</sup> , I. Kovalchuk <sup>7</sup> , J. Biernaskie <sup>5</sup> , C. Schuurmans <sup>1,2,6</sup>	<sup>1</sup> Sunnybrook Research Institute, Toronto, Ontario, Canada <sup>2</sup> University of Toronto, Department of Biochemistry, Toronto, Ontario, Canada <sup>3</sup> Alberta Children's Hospital Research Institute, Department of Biochemistry and Molecular Biology, Calgary, Alberta, Canada <sup>4</sup> University of Calgary, Hotchkiss Brain Institute, Calgary, Alberta, Canada <sup>5</sup> Alberta Children's Hospital Research Institute, Department of Comparative Biology and Experimental Medicine, Calgary, Alberta, Canada <sup>6</sup> University of Toronto, Department of Laboratory Medicine and Pathobiology, Toronto, Ontario, Canada <sup>7</sup> University of Lethbridge, Dept of Biological Sciences, Lethbridge, Alberta, Canada <sup>8</sup> Institut de Génomique Fonctionnelle, Montpellier, France <sup>9</sup> University of Alberta, Department of Ophthalmology and Visual Sciences, Edmonton, Alberta, Canada
T16-037E	847	T16	Regeneration and repair	Potential role of G protein-coupled receptor signalling in glia-to-neuron conversion in the postnatal mouse cerebral cortex	<b>L. Torres-Masjoan</b> <sup>1</sup>	<sup>1</sup> King's College London, Centre for Developmental Neurobiology, London, United Kingdom
T17-001A	151	T17	Transmitter receptors, ion channels and gap junctions	ADAM23 and LGI proteins govern the functional organisation of K <sub>v</sub> 1 channels in myelinated axons	<b>N. A. Kozar</b> <sup>1</sup> , G. Kanatouris <sup>1</sup> , E. Mercer <sup>1</sup> , D. Meijer <sup>1</sup>	<sup>1</sup> University of Edinburgh, Centre for Discovery Brain Sciences, Edinburgh, United Kingdom
T17-002A	434	T17	Transmitter receptors, ion channels and gap junctions	Unconventional role of TRPV4 in astrocytes swelling	<b>B. Barile</b> <sup>1</sup> , F. Formaggio <sup>2</sup> , M. G. Mola <sup>1</sup> , C. D. Gargano <sup>1</sup> , E. Saracino <sup>3</sup> , A. Frigeri <sup>4,5</sup> , M. Caprini <sup>2</sup> , V. Benfenati <sup>3</sup> , G. P. Nicchia <sup>1,5</sup>	<sup>1</sup> University of Bari Aldo Moro, Department of Bioscience, Biotechnologies, and Biopharmaceutics, Bari, Italy <sup>2</sup> University of Bologna, Department of Pharmacy and Biotechnology, Bologna, Italy <sup>3</sup> National Research Council of Italy, Institute for the Organic Synthesis and Photoreactivity, Bologna, Italy <sup>4</sup> University of Bari Aldo Moro, School of Medicine, Department of Basic Medical Sciences, Neuroscience and Sense Organs, Bari, Italy <sup>5</sup> A. Einstein College of Medicine (AECOM), Yeshiva University, Neuroscience Department, Rosny, New York, United States of America
T17-003A	464	T17	Transmitter receptors, ion channels and gap junctions	TRPV4-induced Ca <sup>2+</sup> influx is required for microglial motility	<b>J. Beeken</b> <sup>1,2</sup> , M. Mertens <sup>1</sup> , N. Stas <sup>1</sup> , L. Aerts <sup>1</sup> , J. M. Rigo <sup>1</sup> , L. Nguyen <sup>2</sup> , B. Brône <sup>1</sup> , Y. A. Alpizar <sup>1</sup>	<sup>1</sup> Hasselt University, BIOMED, Diepenbeek, Belgium <sup>2</sup> Université de Liège, GIGA-Stem-Cells, Liège, Belgium
T17-004A	490	T17	Transmitter receptors, ion channels and gap junctions	Traumatic brain injury induces a heterogeneous response in Cx43, affecting astrocytic coupling	<b>C. Muñoz-Ballester</b> <sup>1</sup> , A. Mey <sup>1</sup> , M. Boateng <sup>1</sup> , P. Panigrahi <sup>1</sup> , R. Gourdie <sup>1,2,3</sup> , J. Smyth <sup>1,2,4</sup> , S. Lamouille <sup>1,2,4</sup> , S. Robel <sup>1,5</sup>	<sup>1</sup> Virginia Tech, Fralin Biomedical Research Institute, Roanoke, Virginia, United States of America <sup>2</sup> Virginia Tech, School of Medicine VTC, Roanoke, Virginia, United States of America <sup>3</sup> Virginia Tech, Department of Biomedical Engineering and Mechanics, Blacksburg, Virginia, United States of America <sup>4</sup> Virginia Tech, Department of Biological Sciences, Blacksburg, Virginia, United States of America <sup>5</sup> Virginia Tech, School of Neuroscience, Blacksburg, Virginia, United States of America

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T17-005A	640	T17	Transmitter receptors, ion channels and gap junctions	Mapping Cx43 surface to prevent hemichannel coupling	<b>A. Simon</b> <sup>1</sup> , L. Heja <sup>1</sup> , J. Kardos <sup>1</sup>	<sup>1</sup> Research Centre for Natural Sciences, Budapest, Hungary
T17-006A	745	T17	Transmitter receptors, ion channels and gap junctions	GABA <sub>B</sub> receptor downstream mechanisms in OPCs and its role in myelination and remyelination	<b>L. Bayón-Cordero</b> <sup>1,2</sup> , B. I. Ochoa-Bueno <sup>1</sup> , M. P. Serrano-Regal <sup>3</sup> , V. Tepavcevic <sup>1,2</sup> , E. Capetillo-Zarate <sup>1,2</sup> , F. Zallo <sup>1</sup> , R. Cipriani <sup>1</sup> , A. Rodríguez-Antigüedad <sup>4,2</sup> , J. C. Chara <sup>1,2</sup> , A. Woodhoo <sup>5</sup> , C. Matute <sup>1,2</sup> , M. V. Sánchez-Gómez <sup>1,2</sup>	<sup>1</sup> Achucarro Basque Center for Neuroscience and University of the Basque Country (UPV/EHU), Leioa, Spain <sup>2</sup> Instituto de Salud Carlos III (CIBERNED), Leioa, Spain <sup>3</sup> National Hospital for Paraplegics, Toledo, Spain <sup>4</sup> Biocruces, Barakaldo, Spain <sup>5</sup> Center for Research In Molecular Medicine and Chronic Diseases (CiMUS), Santiago de Compostela, Spain
T17-007A	796	T17	Transmitter receptors, ion channels and gap junctions	Cholesterol-dependent mobility and activity of Pannexin1 channel	<b>A. Cibelli</b> <sup>1</sup> , E. Scemes <sup>2</sup> , D. Spray <sup>1</sup>	<sup>1</sup> Albert Einstein College of Medicine, Neuroscience, Bronx, New York, United States of America <sup>2</sup> New York Medical College, Anatomy and cell biology, Valhalla, New York, United States of America
T17-008A	845	T17	Transmitter receptors, ion channels and gap junctions	Astrocyte miRNA transfer occurs via connexin-43 gap junctions	<b>M. L. Cooper</b> <sup>1,2</sup> , S. A. Liddelow <sup>2,3,4</sup> , M. V. Chao <sup>1,5,4</sup>	<sup>1</sup> Skirball Institute of Biomolecular Medicine, NYU Langone Medical Center, New York, New York, United States of America <sup>2</sup> Neuroscience Institute, NYU Langone Medical Center, New York, New York, United States of America <sup>3</sup> Department of Ophthalmology, NYU Langone Medical Center, New York, New York, United States of America <sup>4</sup> Department of Neuroscience and Physiology, NYU Langone Medical Center, New York, New York, United States of America <sup>5</sup> Department of Cell Biology, NYU Langone Medical Center, New York, New York, United States of America
T19-001C	97	T19	Tumours	TAMEP are brain tumor parenchymal cells controlling neoplastic angiogenesis and progression	<b>R. E. Kälin</b> <sup>1,2</sup> , L. Cai <sup>1,2</sup> , Y. Li <sup>1,2</sup> , D. Zhao <sup>1,2</sup> , H. Zhang <sup>1,2</sup> , J. Cheng <sup>1,2</sup> , W. Zhang <sup>4,2</sup> , Y. Wu <sup>1,2</sup> , K. Eisenhut <sup>1,2</sup> , P. Janssen <sup>5</sup> , L. Schmitt <sup>5</sup> , W. Enard <sup>5</sup> , F. Michels <sup>6</sup> , C. Flüh <sup>6</sup> , M. Hou <sup>1,2</sup> , S. V. Kirchleitner <sup>3</sup> , S. Siller <sup>3</sup> , M. Schiemann <sup>7</sup> , I. Andrá <sup>7</sup> , E. Montanez <sup>8,2</sup> , C. Giachino <sup>9</sup> , V. Taylor <sup>9</sup> , M. Synowitz <sup>6</sup> , J. - C. Tonn <sup>3</sup> , L. von Baumgarten <sup>4,3,2</sup> , C. Schulz <sup>10,2</sup> , I. Hellmann <sup>5</sup> , R. Glass <sup>1,2</sup>	<sup>1</sup> University Hospital, LMU Munich, Neurosurgical Research, Munich, Bavaria, Germany <sup>2</sup> University Hospital, LMU Munich, Walter-Brendel-Centre of Experimental Medicine, Munich, Bavaria, Germany <sup>3</sup> University Hospital, LMU Munich, Neurosurgery, Munich, Bavaria, Germany <sup>4</sup> University Hospital, LMU Munich, Neurology, Munich, Bavaria, Germany <sup>5</sup> LMU Munich, Anthropology and Human Genomics, Planegg-Martensried, Bavaria, Germany <sup>6</sup> University Hospital Schleswig Holstein, Neurosurgery, Kiel, Schleswig-Holstein, Germany <sup>7</sup> Technische Universität München, Medical Microbiology, Munich, Bavaria, Germany <sup>8</sup> University of Barcelona, Physiological Sciences, Barcelona, Spain <sup>9</sup> University of Basel, Biomedicine, Basel, Basel-Stadt, Switzerland <sup>10</sup> University Hospital, LMU Munich, Med I, Munich, Bavaria, Germany
T19-002C	278	T19	Tumours	Functional impact of <i>Tcf12</i> inactivation in glioma cells of origin and gliomagenesis	<b>S. Archontidi</b> <sup>1</sup> , C. Marie <sup>1</sup> , B. Gyorgy <sup>1</sup> , J. Guegan <sup>1</sup> , S. Paris <sup>1</sup> , K. Mokhtari <sup>2</sup> , I. Le Roux <sup>1</sup> , C. Perras <sup>1</sup> , M. Sanson <sup>1,2</sup> , E. Huillard <sup>1</sup>	<sup>1</sup> Paris Brain Institute, Hôpital Pitié-Salpêtrière, Inserm U 1127, CNRS UMR 7225, Sorbonne Université, Paris, France <sup>2</sup> AP-HP, Hôpital de la Pitié-Salpêtrière, Paris, France

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T19-003C	337	T19	Tumours	Combined treatments with the dualsteric agonist N-8-lper plus chemotherapy drugs affect drug resistance in glioblastoma cancer stem cells	<b>C. Guerriero</b> <sup>1</sup> , C. Matera <sup>2</sup> , D. Del Bufalo <sup>3</sup> , M. De Amici <sup>2</sup> , L. Conti <sup>4</sup> , C. Dallanocce <sup>2</sup> , A. M. Tata <sup>1,5</sup>	<sup>1</sup> Sapienza University of Rome, Department of Biology and Biotechnologies Charles Darwin, Rome, Italy <sup>2</sup> University of Milan, Dept. of Pharmaceutical Sciences, Medicinal Chemistry Section "Pietro Pratesi", Milan, Italy <sup>3</sup> Regina Elena National Cancer Institute, Preclinical Models and New Therapeutic Agents Unit, Rome, Italy <sup>4</sup> University of Trento, Department of Cellular, Computational and Integrative Biology - CIBIO, Trento, Italy <sup>5</sup> Sapienza University of Rome, Research Centre of Neurobiology Daniel Bovet, Rome, Italy
T19-004C	429	T19	Tumours	Identification of CRYAB+ KCNN3+ SOX9+ astro-like cells and EGFR+ PDGFRA+ OLIG1+ oligo-like cells in diffuse low-grade gliomas and implication of Notch1 signalling in their genesis	<b>D. Pineau</b> <sup>1</sup> , M. Augustus <sup>1</sup> , F. Aimond <sup>9</sup> , S. Azar <sup>9</sup> , D. Lecca <sup>2</sup> , N. Leventoux <sup>3</sup> , F. Scamps <sup>9</sup> , S. Muxel <sup>1</sup> , A. Darlix <sup>1</sup> , W. Ritchie <sup>5</sup> , C. Gozé <sup>1,7</sup> , V. Rigau <sup>1,6</sup> , H. Duffau <sup>1,4</sup> , J. - P. Hugnot <sup>1,8</sup>	<sup>1</sup> University of Montpellier, CNRS UMR 5203, INSERM U1191, Cancerology-Institut de Génomique Fonctionnelle (IGF)-Team, MONTPELLIER, France <sup>2</sup> Università degli Studi di Milano, Department of Pharmacological and Biomolecular Sciences, MILANO, Italy <sup>3</sup> Keio University School of Medicine, Physiology Department, TOKYO, Japan <sup>4</sup> Hôpital Gui de Chauliac, Neurosurgery Department, MONTPELLIER, France <sup>5</sup> University of Montpellier, CNRS, Institut de Génétique Humaine, MONTPELLIER, France <sup>6</sup> Hôpital Gui de Chauliac, Department of Pathology and Oncobiology, MONTPELLIER, France <sup>7</sup> Hôpital Lapeyronie, Laboratory of Solid Tumors Biology, MONTPELLIER, France <sup>8</sup> University of Montpellier, MONTPELLIER CEDEX 05, France <sup>9</sup> University of Montpellier, INSERM U1051, Institut des Neurosciences de Montpellier (INM), MONTPELLIER, France
T19-005C	499	T19	Tumours	Metabolic modules distinguishing glioblastoma cells in distinct functioning states identified from single cell analyses	<b>M. S. Saurty-Seerunghen</b> <sup>1</sup> , L. Bellenger <sup>2</sup> , E. El-Habr <sup>1</sup> , V. Delaunay <sup>1</sup> , G. Morvan-Dubois <sup>1</sup> , H. Chneiweiss <sup>1</sup> , C. Antoniewski <sup>2</sup> , M. - P. Junier <sup>1</sup>	<sup>1</sup> Neuroscience Paris Seine-IBPS., Team glial plasticity and neurooncology, Paris, France <sup>2</sup> Institut de Biologie Paris Seine, 2ARTbio Bioinformatics Analysis Facility, Paris, France
T19-006D	586	T19	Tumours	Ubiquitin-proteasome system and mitochondrial respiration alterations and oxidative stress induction in human glioblastoma cells: role of the M2 muscarinic receptors	<b>M. S. Salazar Intriago</b> <sup>1</sup> , C. Guerriero <sup>1</sup> , S. Tacconi <sup>2</sup> , A. M. Giudetti <sup>2</sup> , C. Dallanocce <sup>3</sup> , E. Pick <sup>4</sup> , T. Rinaldi <sup>1</sup> , L. Dini <sup>1</sup> , A. M. Tata <sup>1,5</sup>	<sup>1</sup> Sapienza University of Rome, Dept of Biology and Biotechnologies "Charles Darwin", Roma, Italy <sup>2</sup> University of Salento, Dept. of Biological and environmental Sciences and technologies, Lecce, Italy <sup>3</sup> University of Milan, Dept. of Pharmaceutical Chemistry Section "Pietro Pratesi", Milano, Italy <sup>4</sup> University of Haifa, Dept. of Biology and environment, Israel, Italy <sup>5</sup> Sapienza University of Rome, Research Centre of Neurobiology Daniel Bovet, Rome, Italy
T19-007D	592	T19	Tumours	Nuclear Localization of Protease Activated Receptor 1 (PAR1) in Glia	<b>E. Shavit-Stein</b> <sup>1,2</sup> , V. Golderman <sup>1,2</sup> , Z. Itsekzon <sup>1</sup> , J. Chapman <sup>1,2</sup>	<sup>1</sup> Sheba Medical Center, Neurology, Ramat Gan, Israel <sup>2</sup> Tel Aviv University, Neurology, Tel Aviv, Israel

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T19-008D	642	T19	Tumours	Single-cell RNA and protein sequencing reveals functional heterogeneity of glioma-associated brain macrophages	<b>N. Ochocka</b> <sup>1</sup> , P. Segit <sup>1</sup> , K. A. Walentynowicz <sup>1</sup> , K. Wojnicki <sup>1</sup> , S. Cyranowski <sup>1,2</sup> , J. Swatler <sup>3</sup> , J. Mieczkowski <sup>1</sup> , B. Kamińska <sup>1</sup>	<sup>1</sup> Nencki Institute of Experimental Biology of the Polish Academy of Sciences, Laboratory of Molecular Neurobiology, Warsaw, Poland <sup>2</sup> Medical University of Warsaw, Postgraduate School of Molecular Medicine, Warsaw, Poland <sup>3</sup> Nencki Institute of Experimental Biology of the Polish Academy of Sciences, Laboratory of Cytometry, Warsaw, Poland
T19-009D	675	T19	Tumours	Glioblastoma invasiveness and collagen secretion is enhanced by the endoplasmic reticulum compartmentalization of vitamin C	<b>F. Nualart</b> <sup>1,2</sup> , E. Ramírez <sup>1,2</sup> , N. Jara <sup>1</sup> , L. Ferrada <sup>2</sup> , F. Martínez <sup>1,2</sup> , M. J. Oviedo <sup>1</sup> , A. Vollmann-Zwerenz <sup>3</sup> , P. Hau <sup>3</sup> , K. Salazar <sup>1,2</sup>	<sup>1</sup> Concepcion University, Cellular Biology Department and NeuroCellIT Lab, Concepción, Chile <sup>2</sup> Concepcion University, Center for Advanced Microscopy CMA BIOBIO, Concepción, Chile <sup>3</sup> University Hospital Regensburg, Department of Neurology and Wilhelm Sander-NeuroOncology Unit, Regensburg, Germany
T19-010D	696	T19	Tumours	Potential role of AQP4ex in edema associated high grade gliomas	<b>O. Valente</b> <sup>2,1</sup> , R. Messina <sup>1</sup> , L. De Gennaro <sup>1</sup> , R. Pati <sup>1</sup> , G. Ingravallo <sup>3</sup> , E. Bellitti <sup>3</sup> , D. S. Zimatore <sup>1</sup> , G. P. Nicchia <sup>2</sup> , M. Trojano <sup>1</sup> , F. Signorelli <sup>1</sup> , A. Frigeri <sup>1</sup>	<sup>1</sup> University of Bari, Department of Basic Medical Science, Neuroscience and Sense Organs, Bari, Italy <sup>2</sup> University of Bari, Department of Bioscience, Biotechnologies and Biopharmaceutic, Bari, Italy <sup>3</sup> University of Bari, Department of Emergency and Organ Transplantation, Operating Unit of Pathological Anatomy, Bari, Italy
T19-011E	728	T19	Tumours	The effects of H3.3 K27M-mediated epigenetic dysregulation on murine glial development <i>in vivo</i> .	<b>K. M. Budd</b> <sup>1,2</sup> , C. H. Kwon <sup>2</sup> , X. Zhu <sup>2</sup> , S. J. Baker <sup>2,1</sup>	<sup>1</sup> St. Jude Children's Research Hospital, St. Jude Graduate School of Biomedical Sciences, Memphis, Tennessee, United States of America <sup>2</sup> St. Jude Children's Research Hospital, Department of Developmental Neurobiology, Memphis, Tennessee, United States of America
T19-012E	734	T19	Tumours	Targeting the interleukin 10 receptor complex using a transmembrane targeting peptide to control microglia / macrophage polarisation in glioblastoma.	<b>T. Kuntze</b> <sup>1,2</sup> , C. Spelé <sup>1,2</sup> , M. Van der Heyden <sup>2</sup> , D. Bagnard <sup>1,2,3</sup>	<sup>1</sup> University of Strasbourg, Strasbourg, France <sup>2</sup> INSERM, U1119, Strasbourg, France <sup>3</sup> Institut du médicament de Strasbourg, LabEx Medalis, Illkirch-Graffenstaden, France
T19-013E	736	T19	Tumours	Characterization of CD271 <sup>+</sup> Schwann Cell as <i>in vitro</i> model of schwannomatosis.	<b>V. Melfi</b> <sup>1</sup> , V. Bonalume <sup>1</sup> , T. Mohamed <sup>1</sup> , M. Montini <sup>3</sup> , E. Basso <sup>4</sup> , S. Ferraresi <sup>4</sup> , E. Trevisson <sup>2</sup> , L. Papi <sup>3</sup> , V. Magnaghi <sup>1</sup> , A. Colciago <sup>1</sup>	<sup>1</sup> Department of Pharmacological and Biomolecular Sciences, Department of Pharmacological and Biomolecular Sciences, Università, Milan, Italy <sup>2</sup> Department of Women's and Children's Health, Università degli Studi di Padova, Padua, Italy <sup>3</sup> Department of Experimental and Clinical Biomedical Sciences, Università degli Studi di Firenze, Florence, Italy <sup>4</sup> Azienda ULSS 18 Rovigo, Ospedale Santa Maria della Misericordia, Rovigo, Italy
T19-014E	740	T19	Tumours	Feasibility of photodynamic therapy of glioblastoma multiforme with Tetramethylrhodamine methyl ester.	A. Vasilev <sup>2</sup> , R. Sofi <sup>1</sup> , A. Teschemacher <sup>1</sup> , <b>S. Kasparov</b> <sup>1,2</sup>	<sup>1</sup> University of Bristol, Bristol, United Kingdom <sup>2</sup> Baltic Federal University, Kaliningrad, Russian Federation
T19-015E	831	T19	Tumours	A Cx43 peptide inhibits metabolic plasticity in human glioma stem cells while sparing human neural stem cells and astrocytes	<b>S. G. Pelaz</b> <sup>1,3</sup> , M. Jaraíz-Rodríguez <sup>1,3</sup> , A. Álvarez-Vázquez <sup>1,3</sup> , R. Talaverón <sup>1,3</sup> , L. García-Vicente <sup>1,3</sup> , R. Flores-Hernández <sup>1,3</sup> , M. Gómez de Cedrón <sup>2</sup> , M. Tabernero <sup>2</sup> , A. Ramírez De Molina <sup>2</sup> , C. Lillo <sup>1,3</sup> , J. M. Medina <sup>1,3</sup> , A. Tabernero <sup>1,3</sup>	<sup>1</sup> Universidad de Salamanca, INCYL, Salamanca, Spain <sup>2</sup> IMDEA Food Institute, Precision Nutrition and Cancer Program, Molecular Oncology And Nutritional Genomics Of Cancer Group, Madrid, Spain <sup>3</sup> Universidad de Salamanca, Dpto. Bioquímica y Biología Molecular, Salamanca, Spain

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T19-016E	851	T19	Tumours	Comparative study of cell properties in peritumor, dense tumor and cortex regions in patients with II and IV grade gliomas	<b>N. A. Brazhe</b> <sup>1</sup> , A. V. Popov <sup>2,3</sup> , P. A. Denisov <sup>2,3</sup> , K. I. Morozova <sup>1</sup> , E. Y. Parshina <sup>1</sup> , I. A. Medyanik <sup>4</sup> , K. S. Yashin <sup>4</sup> , A. R. Brazhe <sup>1</sup> , M. S. Shestopalova <sup>2</sup> , A. V. Zalygin <sup>2</sup> , V. A. Oleinikov <sup>2</sup> , A. V. Semyanov <sup>1,2</sup>	<sup>1</sup> Moscow State University, Biological Faculty, Moscow, Russian Federation <sup>2</sup> Institute of Bioorganic Chemistry, Moscow, Russian Federation <sup>3</sup> Nizhny Novgorod University, Nizhny Novgorod, Russian Federation <sup>4</sup> Privolzhskiy Research Medical University, Department of Neurosurgery, Nizhny Novgorod, Russian Federation
T20-001A	48	T20	Glial diversity	<i>In vitro</i> heterogeneity of human oligodendroglia	<b>N. - L. Kazakou</b> <sup>1</sup> , S. Jäkel <sup>1</sup> , L. Wagstaff <sup>1</sup> , L. Seeker <sup>1</sup> , N. Bestard-Cuche <sup>1</sup> , N. Henderson <sup>2</sup> , A. Williams <sup>1</sup>	<sup>1</sup> University of Edinburgh, Centre for Regenerative Medicine, Institute for Regeneration and Repair, Edinburgh, United Kingdom <sup>2</sup> University of Edinburgh, Queen's Medical Research Institute, Edinburgh, United Kingdom
T20-002A	83	T20	Glial diversity	Functional identity of a new subtype of astrocyte in the mouse: the Olig2-astrocytes	<b>D. Ohayon</b> <sup>1</sup> , M. Aguirrebengoa <sup>2</sup> , N. Escalas <sup>1</sup> , C. Soula <sup>1</sup>	<sup>1</sup> University of Toulouse/CNRS, Molecular, Cellular and Developmental biology department (MCD), Centre de Biologie Integrative (CBI), Toulouse, France <sup>2</sup> University of Toulouse/CNRS, BigA Core Facility, Centre de Biologie Integrative (CBI), Toulouse, France
T20-003A	135	T20	Glial diversity	Lifelong structural dynamics of cortical oligodendrocytes	<b>Y. Jo</b> <sup>1,2</sup> , J. Kwon <sup>1,2</sup> , S. Lee <sup>3</sup> , T. Ku <sup>4,5</sup> , J. - B. Chang <sup>6</sup> , M. Choi <sup>3</sup>	<sup>1</sup> Sungkyunkwan University, Biomedical Engineering, Suwon-si, Republic of Korea <sup>2</sup> Institute for Basic Science (IBS), Center for Neuroscience Imaging Research (CNIR), Suwon-si, Republic of Korea <sup>3</sup> Seoul National University, Biological Sciences, Seoul, Republic of Korea <sup>4</sup> Korea Advanced Institute of Science and Technology (KAIST), Graduate School of Medical Science and Engineering, Daejeon, Republic of Korea <sup>5</sup> Korea Advanced Institute of Science and Technology (KAIST), KI for Health Science and Technology, Daejeon, Republic of Korea <sup>6</sup> Korea Advanced Institute of Science and Technology (KAIST), Department of Molecular Science and Technology, Daejeon, Republic of Korea
T20-004A	138	T20	Glial diversity	Ultrastructural assessment of NG2-expressing cells in the perisynaptic region of the ventral horns in spinal cord injury	<b>D. Sabirov</b> <sup>1</sup> , I. Kabdesh <sup>1</sup> , Y. Chelyshev <sup>2</sup> , S. Arkhipova <sup>1</sup> , Y. Mukhamedshina <sup>1,2</sup>	<sup>1</sup> Kazan (Volga Region) Federal University, Institute of Fundamental Medicine and Biology, Kazan, Russian Federation <sup>2</sup> Kazan State Medical University, Department of Histology, Cytology and Embryology, Kazan, Russian Federation
T20-005A	140	T20	Glial diversity	Ependyma: a new target for AQP4-IgG in NMO?	<b>M. Bigotte</b> <sup>1</sup> , A. Ruiz <sup>1</sup> , A. El-Hajj <sup>1</sup> , M. Gimenez <sup>1</sup> , P. Giraudon <sup>1</sup> , G. Malleret <sup>1</sup> , P. Salin <sup>1</sup> , R. Marionier <sup>1</sup>	<sup>1</sup> Claude Bernard Lyon 1 University, Lyon Neuroscience Research Center, FORGETTING team, Inserm U1028, CNRS 5292, Bron, France
T20-006B	157	T20	Glial diversity	Yin Yang 1 sets up the stage for cerebellar astrocyte maturation	<b>K. Mockenhaupt</b> <sup>1</sup> , K. M. Tyc <sup>2</sup> , A. McQuiston <sup>3</sup> , A. Hariprasad <sup>1</sup> , D. D. Biswas <sup>1</sup> , A. S. Gupta <sup>1</sup> , A. L. Olex <sup>4</sup> , S. K. Singh <sup>1</sup> , M. R. Waters <sup>1</sup> , J. L. Dupree <sup>3</sup> , M. G. Dozmorov <sup>2</sup> , T. Kordula <sup>1</sup>	<sup>1</sup> Virginia Commonwealth University, Department of Biochemistry and Molecular Biology, Richmond, Virginia, United States of America <sup>2</sup> Virginia Commonwealth University, Department of Biostatistics, Richmond, Virginia, United States of America <sup>3</sup> Virginia Commonwealth University, Department of Anatomy and Neurobiology, Richmond, Virginia, United States of America <sup>4</sup> Virginia Commonwealth University, C. Kenneth and Dianne Wright Center for Clinical and Translational Research, Richmond, Virginia, United States of America
T20-007B	169	T20	Glial diversity	Monitoring astrocyte diversity by a cell-type specific proteomic approach	<b>P. Prabhakar</b> <sup>1</sup> , R. Pielot <sup>1</sup> , P. Landgraf <sup>1</sup> , J. Wissing <sup>3</sup> , A. Bayrhammer <sup>1,2</sup> , L. Jansch <sup>3</sup> , D. C. Dieterich <sup>1,2</sup> , A. Müller <sup>1,2</sup>	<sup>1</sup> Otto-von-Guericke University, Institute of Pharmacology and Toxicology, Magdeburg, Germany <sup>2</sup> Center for Behavioural Brain Sciences, Magdeburg, Germany <sup>3</sup> Helmholtz Centre for Infection Research, Braunschweig, Germany



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T20-008B	228	T20	Glial diversity	Regional astrocytic heterogeneity in models of Parkinson's disease	<b>N. Hastings</b> <sup>1,2</sup> , S. Rahman <sup>1,2</sup> , W. - L. Kuan <sup>1,3</sup> , M. Kotter <sup>1,2</sup>	<sup>1</sup> University of Cambridge, Department of Clinical Neurosciences, Cambridge, United Kingdom <sup>2</sup> University of Cambridge, Wellcome MRC Cambridge Stem Cell Institute, Cambridge, United Kingdom <sup>3</sup> University of Cambridge, John van Geest Centre for Brain Repair, Cambridge, United Kingdom
T20-009B	248	T20	Glial diversity	Spatial distribution of oligodendrocyte populations within the mouse central nervous system	<b>P. Kukanja</b> <sup>1</sup> , M. M. Hilscher <sup>2</sup> , C. M. Langseth <sup>2</sup> , E. M. Floriddia <sup>1</sup> , L. Kirby <sup>1</sup> , C. Yokota <sup>2</sup> , M. Nilsson <sup>2</sup> , G. Castelo-Branco <sup>1</sup>	<sup>1</sup> Karolinska Institutet, Laboratory of Molecular Neurobiology, Department Medical Biochemistry and Biophysics, Stockholm, Sweden <sup>2</sup> Stockholm University, Science for Life Laboratory, Department of Biophysics and Biochemistry, Solna, Sweden
T20-010B	250	T20	Glial diversity	Abnormal microglia development and function in Down Syndrome revealed by human iPSC-based microglial chimeras	<b>M. Jin</b> <sup>1</sup> , P. Jiang <sup>1</sup>	<sup>1</sup> Rutgers University, Department of Cell biology and neuroscience, Piscataway, New Jersey, United States of America
T20-011C	252	T20	Glial diversity	Roles of axon tract-associated embryonic microglia in forebrain development	<b>A. R. Lawrence</b> <sup>1,2</sup> , G. Oller <sup>1,2</sup> , M. Thion <sup>1,2</sup> , S. Garel <sup>1,2</sup> , L. Lokmane <sup>1,2</sup>	<sup>1</sup> Ecole Normale Supérieure, PSL Research University, Section Biologie du Développement, Institut de Biologie de l'ENS (IBENS), INSERM U1024, CNRS UMR8197, Paris, France <sup>2</sup> Brain Development and Plasticity Team, Paris, France
T20-012C	268	T20	Glial diversity	Single-cell RNA Sequencing unveils an unprecedented molecular and functional heterogeneity of cerebellar astrocytes	<b>V. Cerrato</b> <sup>1,2</sup> , L. Tolley <sup>3</sup> , A. Buffo <sup>1,2</sup>	<sup>1</sup> University of Turin, Dept. of Neuroscience Rita Levi Montalcini, Turin, Italy <sup>2</sup> NICO (Neuroscience Institute Cavalieri Ottolenghi), Orbassano (TO), Italy <sup>3</sup> University of Lausanne, Dept. of Fundamental Neurosciences (DNF), Lausanne, Switzerland
T20-013C	308	T20	Glial diversity	Dissecting the links between cell shape, glial function and signaling dynamics <i>in vitro</i> using human induced pluripotent stem cell-derived astrocytes	<b>K. O'Toole</b> <sup>1,2</sup> , L. Guetta <sup>1,2</sup> , A. Serio <sup>1,2</sup>	<sup>1</sup> The Francis Crick Institute, Neural Circuit Bioengineering and Disease Modelling Laboratory, London, United Kingdom <sup>2</sup> King's College London, Centre for Craniofacial & Regenerative Biology, London, United Kingdom
T20-014C	318	T20	Glial diversity	How cellular morphology shapes functional organization of calcium signaling in astrocytes	<b>E. Cresswell-Clay</b> <sup>1,2</sup> , G. Erlebacher <sup>3</sup> , M. De Pittà <sup>1,4</sup>	<sup>1</sup> Basque Center for Applied Mathematics, Mathematical, Computational And Experimental Neuroscience, Bilbao, Spain <sup>2</sup> Fulbright Fellowship Program, Fulbright Spain Commission, Madrid, Spain <sup>3</sup> Florida State University, Department of Scientific Computing, Tallahassee, Florida, United States of America <sup>4</sup> la Caixa Foundation, la Caixa Junior Leader Fellowship Program, Barcelona, Spain
T20-015C	432	T20	Glial diversity	Fibrinogen Regulates Astrocyte Scar Border Formation after Vascular Damage	<b>P. V. Conforti</b> <sup>1,4</sup> , S. Mezey <sup>1</sup> , S. Nath <sup>1,4</sup> , S. Malik <sup>1,4</sup> , S. Deshpande <sup>1,4</sup> , L. Pous <sup>1,4</sup> , B. Zieger <sup>2</sup> , C. Schachtrup <sup>1,3</sup>	<sup>1</sup> Institute of Anatomy and Cell Biology, Molecular embryology, Freiburg, Baden-Württemberg, Germany <sup>2</sup> University Medical Center, Department of Pediatrics and Adolescent Medicine, Freiburg, Baden-Württemberg, Germany <sup>3</sup> Center for Basics in NeuroModulation, Faculty of Medicine, Freiburg, Baden-Württemberg, Germany <sup>4</sup> University of Freiburg, Faculty of Biology, Freiburg, Germany
T20-016D	462	T20	Glial diversity	Birthdating of SOX9+ astrocytes during embryonic and postnatal development reveals their timed production from neural stem/progenitor cells in restricted cortical layers.	<b>I. Kortebe</b> <sup>1</sup> , T. Sharma <sup>2</sup> , E. Daniele <sup>1</sup> , D. Lozano-Casasbuenas <sup>2</sup> , M. Faiz <sup>1,2</sup>	<sup>1</sup> University of Toronto, Institute of Medical Science, Toronto, Ontario, Canada <sup>2</sup> University of Toronto, Division of Anatomy, Department of Surgery, Toronto, Ontario, Canada

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T20-017D	663	T20	Glial diversity	Protective microglial subset in development, aging and disease	<b>A. Benmamar-Badel</b> <sup>1,2,3</sup> , T. Owens <sup>1,2</sup> , A. Wlodarczyk <sup>1,2</sup>	<sup>1</sup> University of Southern Denmark, Department of Neurobiology Research, Institute for Molecular Medicine, Odense C, Denmark <sup>2</sup> University of Southern Denmark, BRIDGE, Brain Research - Inter-Disciplinary Guided Excellence, Odense C, Denmark <sup>3</sup> Slagelse Hospital, Department of Neurology, Institute of Regional Health Research, Slagelse, Denmark
T20-018D	678	T20	Glial diversity	IIIIG9 inhibition in adult ependymal cells change adherent junction structure and induce cellular detachment	<b>K. A. Salazar Martinez</b> <sup>1,2</sup> , V. Baeza <sup>1</sup> , F. Nualart <sup>1,2</sup> , E. Ramirez <sup>1</sup> , F. Martinez <sup>1</sup> , L. Ferrada <sup>2</sup> , M. J. Oviedo <sup>1</sup> , I. De Lima <sup>1</sup> , N. Troncoso <sup>1</sup> , N. Saldivia <sup>1</sup> , M. Cifuentes <sup>3,4</sup>	<sup>1</sup> University of Concepcion, Laboratory of Neurobiology and Stem Cells, NeuroCellT, Department of Cellular Biology, Faculty of Biological Sciences, Concepcion, Chile <sup>2</sup> University of Concepcion, Center for Advanced Microscopy CMA BIOBIO, Faculty of Biological Sciences, Concepcion, Chile <sup>3</sup> University of Malaga, Department of Cell Biology, Genetics and Physiology, Malaga, Spain <sup>4</sup> IBIMA, BIONAND, Andalusian Center for Nanomedicine and Biotechnology and Networking Research Center on Bioengineering, Biomaterials and Nanomedicine, Malaga, Spain
T20-019D	702	T20	Glial diversity	Women neuroscientists disciples of Pío del Río-Hortega: the Cajal School spreads in Europe and South America	C. Nombela <sup>1</sup> , E. Fernández-Egea <sup>2</sup> , E. Giné <sup>3</sup> , Y. Worbe <sup>4</sup> , J. del Río-Hortega Bereciartu <sup>5</sup> , <b>F. de Castro</b> <sup>6</sup>	<sup>1</sup> Universidad Autónoma de Madrid, Facultad de Psicología, Madrid, Spain <sup>2</sup> University of Cambridge, Department of Psychiatry, Behavioural and Clinical Neuroscience Institute (BCNI), Cambridge, United Kingdom <sup>3</sup> Unidad Complutense de Madrid, Dept. de Biología Celular, Madrid, Spain <sup>4</sup> Saint-Antoine Hospital, Sorbonne Université, Department of Neurophysiology, Paris, France <sup>5</sup> Universidad de Valladolid, Dept. de Pediatría, Inmunología, Obstetricia-Ginecología, Nutrición-Bromatología, Psiquiatría e Historia de la Medicina, Valladolid, Spain <sup>6</sup> Consejo Superior de Investigaciones Científicas-CSIC/Spanish research Council, Institute Cajal CSIC, Madrid, Spain
T20-020D	732	T20	Glial diversity	Does the retinal photoreceptor composition influence Müller cell heterogeneity?	<b>L. Kaplan</b> <sup>1</sup> , P. Fuchs <sup>2</sup> , U. Schlötzer-Schrehardt <sup>3</sup> , C. Grimm <sup>4</sup> , K. Franze <sup>6</sup> , M. Götz <sup>1</sup> , S. Hauck <sup>5</sup> , A. Grosche <sup>1</sup>	<sup>1</sup> Ludwig-Maximilians-Universität, Department of Physiological Genomics, Munich, Germany <sup>2</sup> University of Vienna, Department of Biochemistry and Cell Biology, Max F. Perutz Laboratories, Vienna, Austria <sup>3</sup> Friedrich-Alexander-Universität, Department of Ophthalmology, Erlangen, Germany <sup>4</sup> University of Zurich, Department of Ophthalmology, Zurich, Switzerland <sup>5</sup> Helmholtz-Zentrum München, Research Unit Protein Science, Munich, Germany <sup>6</sup> University of Cambridge, Department of Physiology, Development and Neuroscience, Cambridge, United Kingdom

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T20-021E	735	T20	Glial diversity	Oligodendroglia heterogeneity in the post-mortem human CNS with region, age and sex	<b>L. A. Seeker</b> <sup>1</sup> , S. Jäkel <sup>1</sup> , N. Bestard Cucho <sup>1</sup> , A. Kilpatrick <sup>1</sup> , F. Baldivia Pohl <sup>2</sup> , E. Agirre <sup>2</sup> , D. van Bruggen <sup>2</sup> , C. Vallejos <sup>3</sup> , G. La Manno <sup>4</sup> , G. Castelo-Branco <sup>2</sup> , A. Williams <sup>1</sup>	<sup>1</sup> University of Edinburgh, Centre for Regenerative Medicine, Institute for Regeneration and Repair, Edinburgh BioQuarter, Edinburgh, United Kingdom <sup>2</sup> Karolinska Institutet, Laboratory of Molecular Neurobiology, Department of Biochemistry and Biophysics, Stockholm, Sweden <sup>3</sup> University of Edinburgh, MRC Human Genetics Unit, MRC Institute of Genetics & Molecular Medicine, Western General Hospital, Edinburgh, United Kingdom <sup>4</sup> Swiss Federal Institute of Technology, School of Life Sciences, Lausanne, Switzerland
T20-022E	750	T20	Glial diversity	Molecular and ultrastructural characterization of glial cells in the developing amphioxus: implications for the evolution of glia in chordates	<b>M. Bozzo</b> <sup>1,3</sup> , T. Lacalli <sup>2</sup> , V. Obino <sup>3</sup> , F. Caicci <sup>4</sup> , E. Marcenaro <sup>3</sup> , T. Bachetti <sup>1</sup> , L. Manni <sup>4</sup> , M. Pestarino <sup>1</sup> , M. Schubert <sup>5</sup> , S. Candiani <sup>1</sup>	<sup>1</sup> University of Genoa, Department of Earth, Environment and Life Sciences, Genoa, Italy <sup>2</sup> University of Victoria, Biology Department, Victoria, British Columbia, Canada <sup>3</sup> University of Genoa, Department of Experimental Medicine, Genoa, Italy <sup>4</sup> University of Padua, Department of Biology, Padua, Italy <sup>5</sup> Sorbonne Université, CNRS, Laboratoire de Biologie du Développement de Villefranche-sur-Mer, Villefranche-sur-Mer, France
T20-023E	762	T20	Glial diversity	The impact of diurnal rhythmicity on microglia	<b>S. Steffens</b> <sup>1</sup> , H. - K. Wigren <sup>1</sup> , T. Stenberg <sup>1</sup>	<sup>1</sup> University of Helsinki, Sleep Well Research Program, Helsinki, Finland
T20-025E	880	T20	Glial diversity	The expression and function of Kir4.1 in Schwann cells using Kir4.1-CreERT2 mice	N. Procacci <sup>1</sup> , D. Heredia <sup>1</sup> , J. Kailey <sup>1</sup> , N. Christiansen <sup>1</sup> , N. LeBlanc <sup>1</sup> , <b>T. Gould</b> <sup>1</sup>	<sup>1</sup> Univ Nevada School of Med, Reno, United States of America
T21-001A	75	T21	Neuromodulation by glia	Cortical astrocytes independently regulate sleep depth and duration via separate GPCR pathways	<b>T. V. Vaidyanathan</b> <sup>1,2</sup> , M. Collard <sup>1</sup> , S. Yokoyama <sup>2</sup> , M. Reitman <sup>1,2</sup> , K. Poskanzer <sup>1,2,3</sup>	<sup>1</sup> University of California, San Francisco, Neuroscience Graduate Program, San Francisco, California, United States of America <sup>2</sup> University of California, San Francisco, Department of Biochemistry & Biophysics, San Francisco, California, United States of America <sup>3</sup> University of California, San Francisco, Kavli Institute for Fundamental Neuroscience, San Francisco, California, United States of America
T21-002A	109	T21	Neuromodulation by glia	Norrin modulates neuronal network communication and synaptic biology via a cortical astrocyte-subgroup signaling pathway	<b>E. G. Thompson</b> <sup>1,2</sup> , J. D. Rothstein <sup>1,2</sup>	<sup>1</sup> Johns Hopkins University, Department of Neurology, Baltimore, Maryland, United States of America <sup>2</sup> Johns Hopkins University, Brain Science Institute, Baltimore, Maryland, United States of America
T21-003A	305	T21	Neuromodulation by glia	Evidence for a central role of astrocyte $\alpha$ 1A adrenoceptor in the regulation of the excitatory/inhibitory balance and plasticity in the primary visual cortex.	<b>J. Wahis</b> <sup>1</sup> , A. Kirunda <sup>1</sup> , A. Mak <sup>1</sup> , K. Zeise <sup>1</sup> , M. G. Holt <sup>1</sup>	<sup>1</sup> KU Leuven, Department of Neurosciences, Leuven Brain Institute, VIB-KU Leuven center for brain and disease research, Leuven, Belgium
T21-004A	403	T21	Neuromodulation by glia	Microglia depletion disrupts postnatal retinal development	<b>B. Nagy</b> <sup>1</sup> , R. J. Cubero <sup>1</sup> , S. Siegert <sup>1</sup>	<sup>1</sup> Institute of Science and Technology Austria, Klosterneuburg, Nieder-österreich, Austria
T21-005A	448	T21	Neuromodulation by glia	Microglia contribution to neuronal network remodeling after paralysis onset	<b>F. Martineau</b> <sup>1</sup> , K. Ginggen <sup>1</sup> , S. Pagès <sup>2,3</sup> , L. Batti <sup>2</sup> , R. C. Paolicelli <sup>1</sup>	<sup>1</sup> University of Lausanne, Department of Biomedical Sciences, Lausanne, Switzerland <sup>2</sup> Wyss Center for Bio- and Neuroengineering, Geneva, Switzerland <sup>3</sup> University of Geneva, Department of Basic Neurosciences, Geneva, Switzerland
T21-006B	470	T21	Neuromodulation by glia	Evaluation of the different AQP4 isoforms in the naive olfactory-mediated behavior	<b>P. Abbrescia</b> <sup>1</sup> , O. Valente <sup>2,1</sup> , C. Palazzo <sup>1</sup> , R. Pati <sup>1</sup> , M. Trojano <sup>1</sup> , M. Dibattista <sup>1</sup> , A. Frigeri <sup>1</sup>	<sup>1</sup> University of Bari, Department of Basic Medical Science, Neuroscience and Sense Organs, Bari, Italy <sup>2</sup> University of Bari, Department of Biosciences, Biotechnologies and Biopharmaceutic, Bari, Italy

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T21-007B	514	T21	Neuromodulation by glia	Elucidating the role of BDNF/Astrocytic TrkB.T1 signaling on perisynaptic astrocyte process recruitment	<b>B. Torres-Ceja</b> <sup>1</sup> , L. Holt <sup>1</sup> , M. L. Olsen <sup>1</sup>	<sup>1</sup> Virginia Polytechnic Institute and State University, Blacksburg, Virginia, United States of America
T21-008B	520	T21	Neuromodulation by glia	Microglia control astrocyte isopotentiality and synaptic transmission in the mouse hippocampus	Y. Du <sup>1</sup> , F. H. Brennan <sup>1</sup> , P. G. Popovich <sup>1</sup> , <b>M. Zhou</b> <sup>1</sup>	<sup>1</sup> Ohio State University, Neuroscience, Columbus, Ohio, United States of America
T21-009B	528	T21	Neuromodulation by glia	Norepinephrine links astrocyte calcium activity to changes in cortical state	<b>M. Reitman</b> <sup>1,2</sup> , S. Yokoyama <sup>1</sup> , K. E. Poskanzer <sup>1</sup>	<sup>1</sup> University of California, San Francisco, Biochemistry and Biophysics, San Francisco, California, United States of America <sup>2</sup> University of California, San Francisco, Neuroscience Graduate Program, San Francisco, California, United States of America
T21-010B	544	T21	Neuromodulation by glia	Application of PLGA nanoparticles to enhance the action of Duloxetine on microglia in neuropathic pain.	S. I. Kim <sup>1,2</sup> , J. Shin <sup>1,2</sup> , H. Park <sup>1,2</sup> , H. H. Kwon <sup>1,2</sup> , N. Shin <sup>1,2</sup> , J. A. Hwang <sup>2</sup> , H. J. Shin <sup>2</sup> , J. Lee <sup>3</sup> , W. H. Lee <sup>3</sup> , S. Y. Lee <sup>3</sup> , <b>D. W. Kim</b> <sup>1,2</sup>	<sup>1</sup> Chungnam National University School of Medicine, Department of Medical Science, Dajoen, Republic of Korea <sup>2</sup> Chungnam National University School of Medicine, Department of Anatomy and Cell Biology/Brain Research Institute, Dajoen, Republic of Korea <sup>3</sup> Chungnam National University School of Medicine, Department of Anesthesia and Pain Medicine, Dajoen, Republic of Korea
T21-011C	594	T21	Neuromodulation by glia	Astrocytic CD44 deletion in the dentate gyrus influences epileptogenesis.	<b>P. K. Kruk</b> <sup>1</sup> , K. Nader <sup>2</sup> , V. Orian-Rousseau <sup>3</sup> , J. Dzwonek <sup>1</sup>	<sup>1</sup> Nencki Institute of Experimental Biology Polish Academy of Science, Laboratory of Molecular and Systemic Neuromorphology, Warszawa, Poland <sup>2</sup> Nencki Institute of Experimental Biology Polish Academy of Science, Laboratory of Neurobiology, Warszawa, Poland <sup>3</sup> Karlsruhe Institute for Technology (KIT), Institute of Toxicology and Genetics, Eggenstein-Leopoldshafen, Baden-Württemberg, Germany
T21-012C	679	T21	Neuromodulation by glia	Astroglial mitochondrial calcium determines synaptic integration	<b>A. Covelto</b> <sup>1,2</sup> , R. Serrat <sup>3,4</sup> , S. Pouvreau <sup>3,4</sup> , G. Marsicano <sup>1,2</sup>	<sup>1</sup> Inserm, U1215 Neurocentre Magendie, Bordeaux, France <sup>2</sup> University of Bordeaux, Bordeaux, France <sup>3</sup> INRAE, UMR 1286, Bordeaux, France <sup>4</sup> CNRS, UMR 5297, Bordeaux, France
T21-013C	680	T21	Neuromodulation by glia	Oligodendrocyte Precursor Cells Sculpt the Visual System by Regulating Axon Remodeling	<b>Y. Xiao</b> <sup>1</sup> , L. J. Hoodless <sup>2</sup> , L. Petrucco <sup>1,3</sup> , R. Portugues <sup>1,3</sup> , T. Czopka <sup>1,2</sup>	<sup>1</sup> Technical University of Munich, Munich, Germany <sup>2</sup> University of Edinburgh, Edinburgh, United Kingdom <sup>3</sup> Max Planck Institute of Neurobiology, Munich, Germany
T21-014C	687	T21	Neuromodulation by glia	Optimisation and validation of a system X <sub>c</sub> <sup>-</sup> functional assay in cultured astrocytes and in nervous tissue samples	<b>P. Beckers</b> <sup>1</sup> , O. Lara <sup>2</sup> , N. Desmet <sup>1</sup> , A. Massie <sup>2</sup> , E. Hermans <sup>1</sup>	<sup>1</sup> Université catholique de Louvain, Institute of Neuroscience / Neuropharmacology, Brussels, Belgium <sup>2</sup> Vrije Universiteit Brussel, Center for Neurosciences / Neuro-Aging & Viro-Immunotherapy, Brussels, Belgium
T21-015C	720	T21	Neuromodulation by glia	Deciphering the Central Amygdala Oxytocin-Induced Astrocytic and Neuronal Intracellular Activity	<b>A. Baudon</b> <sup>1</sup> , J. Wahis <sup>2</sup> , D. Kerspern <sup>1</sup> , F. Althammer <sup>3</sup>	<sup>1</sup> University of Strasbourg, INCI CNRS UPR 3212, Strasbourg, France <sup>2</sup> Laboratory of Glia Biology, Leuven, Belgium <sup>3</sup> Center for Neuroinflammation and Cardiometabolic Research, Atlanta, Georgia, United States of America
T21-016C	811	T21	Neuromodulation by glia	RAGE activation in astrocytes contributes to neuronal-astrocytic communication through glutamate release	<b>N. Esteras</b> <sup>1</sup> , A. Kamynina <sup>2,3</sup> , P. R. Angelova <sup>1</sup> , A. Y. Abramov <sup>1</sup>	<sup>1</sup> University College London, UCL Queen Square Institute of Neurology, London, United Kingdom <sup>2</sup> Moscow Institute of Physics and Technology (National Research University), Research Center for Molecular Mechanisms of Aging and Age-Related Diseases, Dolgoprudny, Russian Federation <sup>3</sup> Shemyakin-Ovchinnikov Institute of Bioorganic Chemistry RAS, Moscow, Russian Federation

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T22-001A	54	T22	Psychiatric diseases	Chronic social stress leads to altered cortico- limbic oligodendrocyte and myelination status in adult mice.	<b>G. Poggi</b> <sup>1</sup> , J. Albiez <sup>1</sup> , C. Pryce <sup>1</sup>	<sup>1</sup> University of Zürich, Department of Psychiatry, Psychotherapy and Psychosomatics - Preclinical Lab for Translational Research into Affective Disorders - PLATRAD, Zürich, Switzerland
T22-002A	193	T22	Psychiatric diseases	<i>Contrasting morphometric signatures of microglia from hyper- and hypofunctional dopaminergic pathways in an animal model of Schizophrenia</i>	<b>A. C. R. Neves</b> <sup>1,2,4</sup> , R. Gaspar <sup>1,2,3</sup> , P. Patrício <sup>5</sup> , S. Lima <sup>5</sup> , T. Rosa <sup>5</sup> , J. Macedo <sup>5</sup> , B. Araújo <sup>5</sup> , F. I. Baptista <sup>1,2,3</sup> , L. Pinto <sup>5</sup> , J. Bessa <sup>5</sup> , A. F. Ambrósio <sup>1,2,3</sup> , C. A. Gomes <sup>1,2,3</sup>	<sup>1</sup> University of Coimbra, Coimbra Institute for Clinical and Biomedical Research (iCIBR), Faculty of Medicine, Coimbra, Portugal, Coimbra, Portugal <sup>2</sup> University of Coimbra, Center for Innovative Biomedicine and Biotechnology (CIBB), Coimbra, Portugal, Coimbra, Portugal <sup>3</sup> Clinical Academic Center of Coimbra (CACC), Coimbra, Portugal, Coimbra, Portugal <sup>4</sup> University of Coimbra, Faculty of Pharmacy, Coimbra, Portugal, Coimbra, Portugal <sup>5</sup> University of Minho, Life and Health Sciences Research Institute (ICVS), School of Medicine, , Braga, Portugal, Minho, Portugal
T22-003A	259	T22	Psychiatric diseases	An <i>in vitro</i> stress model of primary oligodendrocytes from anxious and non-anxious inbred mouse strains	<b>A. Gigliotta</b> <sup>1</sup> , J. Mingardi <sup>1,2</sup> , S. Cummings <sup>3</sup> , R. Kothary <sup>3</sup> , I. Hovatta <sup>1</sup>	<sup>1</sup> University of Helsinki, SleepWell Research Program and Department of Psychology and Logopedics, Faculty of Medicine; and Neuroscience Center, Helsinki Institute of Life Science HiLIFE, Helsinki, Finland <sup>2</sup> University of Brescia, Division of Biology and Genetics, Department of Molecular and Translational Medicine, Brescia, Italy <sup>3</sup> University of Ottawa, Regenerative Medicine Program, Ottawa Hospital Research Institute and University of Ottawa, Ottawa, Ontario, Canada
T22-004A	362	T22	Psychiatric diseases	Astrocytic calcium elevations in the basolateral amygdala during fear and extinction	<b>O. Bukalo</b> <sup>1</sup> , A. Mendez <sup>1</sup> , C. Weinholtz <sup>1</sup> , T. Campbell <sup>1</sup> , M. Yde <sup>1</sup> , W. Taylor <sup>1</sup> , M. Nonaka <sup>1</sup> , O. Gunduz-Cinar <sup>1</sup> , A. Holmes <sup>1</sup>	<sup>1</sup> NIAAA, NIH, Rockville, Maryland, United States of America
T22-005A	366	T22	Psychiatric diseases	Chronic Stress Induces Microglial-Mediated Inflammatory Responses and Compromises the Oligodendroglial & Neuronal Homeostasis Leading to Depression	<b>A. G. Kokkosis</b> <sup>1</sup> , M. M. Madeira <sup>1</sup> , K. Valais <sup>1</sup> , M. Mullahy <sup>1</sup> , S. E. Tsirka <sup>1</sup>	<sup>1</sup> Stony Brook University, Pharmacological Sciences, Stony Brook, New York, United States of America
T22-006A	476	T22	Psychiatric diseases	Altered calcium signaling in astrocytes of Fragile X Syndrome mouse model	L. Bergdolt <sup>1</sup> , R. Padmashri <sup>1</sup> , K. Tyner <sup>1</sup> , <b>A. Dunaevsky</b> <sup>1</sup>	<sup>1</sup> University of Nebraska Medical Center, Neurological Sciences, Omaha, Nebraska, United States of America
T22-007B	496	T22	Psychiatric diseases	Microglial spatio-temporal heterogeneity in a perinatal inflammation mouse model – Link to Autism-like phenotypes	<b>C. Bokobza</b> <sup>1</sup> , A. Galland <sup>1</sup> , A. Jacquens <sup>1</sup> , D. Guenoun <sup>1</sup> , Z. Csaba <sup>1</sup> , N. Heck <sup>2</sup> , J. Van Steenwinckel <sup>1</sup> , P. Gressens <sup>1</sup>	<sup>1</sup> Université de Paris, Inserm UMR1141 - NeuroDiderot, Paris, France <sup>2</sup> University Pierre et Marie Curie Paris (UPMC), CNRS UMR8246, INSERM UMRS-1130, Paris, France
T22-008B	533	T22	Psychiatric diseases	Immune Phenotypes of Oligodendroglial-Lineage Cells in MDD and in Response to Chronic Stress-Induced Microglial Inflammation	<b>M. M. Madeira</b> <sup>1</sup> , A. G. Kokkosis <sup>1</sup> , S. E. Tsirka <sup>1</sup>	<sup>1</sup> Stony Brook University, Pharmacological Sciences, Stony Brook, New York, United States of America
T22-009B	577	T22	Psychiatric diseases	Role of adult hippocampal neurogenesis in the antidepressant effects of lactate	<b>A. Carrard</b> <sup>1</sup> , F. Cassé <sup>1</sup> , C. Carron <sup>1</sup> , S. Bulet-Godinot <sup>1</sup> , N. Toni <sup>1</sup> , P. Magistretti <sup>3,1</sup> , J. - L. Martin <sup>1,2</sup>	<sup>1</sup> CHUV, Center for Psychiatric Neurosciences, Prilly, Vaud, Switzerland <sup>2</sup> UNIL, University of Lausanne, Lausanne, Vaud, Switzerland <sup>3</sup> KAUST, King Abdullah University of Science and Technology, Thuwal, Saudi Arabia
T22-010B	613	T22	Psychiatric diseases	Characteristics of sialylation and ST6Gal I in serum and brain in mouse model of depression	M. Ye <sup>1</sup> , K. Fan <sup>1</sup> , W. Dong <sup>1</sup> , <b>J. Ma</b> <sup>1</sup>	<sup>1</sup> Dalian Medical University, Dalian, China

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T22-011B	780	T22	Psychiatric diseases	Chronic unpredictable stress negatively regulates hippocampal neurogenesis and promotes anxious depression-like behavior via upregulating apoptosis and inflammatory signals in adult rats.	<b>P. Parul</b> <sup>1</sup> , A. Mishra <sup>2</sup> , S. Singh <sup>3</sup> , S. Singh <sup>4</sup> , V. Tiwari <sup>9</sup> , S. Chaturvedi <sup>6</sup> , M. Wahajuddin <sup>7</sup> , G. Palit <sup>8</sup> , S. Shukla <sup>9</sup>	<sup>1</sup> CSIR- Central drug research institute, Division of Neuroscience and Ageing biology, Lucknow, India <sup>2</sup> New York Medical College, Valhalla, NY, Department of Cell Biology and Anatomy, Valhalla, NY, New York, United States of America <sup>3</sup> University of Connecticut (Uconn) Health Center, Department of Neuroscience, School of Medicine,, Farmington, Massachusetts, United States of America <sup>4</sup> University of Nebraska Medical Center, Omaha, Department of Pharmacology and Experimental Neuroscience, Nebraska, Nebraska, United States of America <sup>5</sup> CSIR- Central drug research institute, Division of Pharmaceutics and Pharmacokinetics, Lucknow, India <sup>6</sup> CSIR- Central drug research institute, Division of Pharmaceutics and Pharmacokinetics, Lucknow, India <sup>7</sup> CSIR- Central drug research institute, Division of Pharmacology, Lucknow, India <sup>8</sup> CSIR- Central drug research institute, Division of Neuroscience and Ageing biology, Lucknow, India
T22-012B	784	T22	Psychiatric diseases	Transcriptomic responses of microglia to a chronic, unpredictable, mild stress in the prefrontal cortex and hippocampus in a murine model of depression	<b>M. Banqueri</b> <sup>1</sup> , A. Roura <sup>1</sup> , A. Kiryk <sup>1</sup> , B. Kaminska <sup>1</sup>	<sup>1</sup> Nencki Institute, Warsaw, Poland
T23-001E	148	T23	Glia - glia interaction	Oligodendrocyte-lineage cell-secreted L-type prostaglandin D synthase promotes oligodendrocyte differentiation and myelination	<b>L. Pan</b> <sup>1</sup> , A. Trimarco <sup>2</sup> , C. Taveggia <sup>2</sup> , Y. Zhang <sup>1</sup>	<sup>1</sup> UCLA, Department of Psychiatry and Biobehavioral Sciences/Semel Institute for Neuroscience and Human Behavior, los angeles, California, United States of America <sup>2</sup> San Raffaele Scientific Institute, Division of Neuroscience/INSPE, Milan, Italy
T23-002E	254	T23	Glia - glia interaction	Astrocyte-targeted overexpression of both IL-6 and IL-10 modifies postnatal white matter-associated microglia and affects primary developmental myelination	<b>G. Manich</b> <sup>1</sup> , O. Zerpa <sup>1</sup> , M. Peris <sup>1</sup> , B. Almolda <sup>1</sup> , B. González <sup>1</sup> , B. Castellano <sup>1</sup>	<sup>1</sup> Autonomous University of Barcelona, Institute of Neurosciences, Cerdanyola del Vallès, Spain
T23-003E	494	T23	Glia - glia interaction	Characterization of Ca <sup>2+</sup> signals in spinal glial cells using transgenic mice with cell-specific GCaMP expression	<b>P. Rieder</b> <sup>1</sup> , D. Gobbo <sup>1</sup> , G. Stopper <sup>1</sup> , F. Kirchhoff <sup>1</sup> , A. Scheller <sup>1</sup>	<sup>1</sup> University of Saarland, Center for Integrative Physiology and Molecular Medicine, Department of Molecular Physiology, Homburg, Saarland, Germany
T23-004E	630	T23	Glia - glia interaction	How mad can microglia become when you kill their astrocytes. The possibility of shifting active microglia phenotype after fluorocitrate-induced astrocyte death - a pharmacological perspective.	<b>A. Jurga</b> <sup>1</sup> , M. Paleczna <sup>1</sup> , B. Kosmowska <sup>1</sup> , I. Leonovich <sup>2</sup> , K. Kuter <sup>1</sup>	<sup>1</sup> Maj Institute of Pharmacology Polish Academy of Sciences, Department of Neuropsychopharmacology, Krakow, Poland <sup>2</sup> Jagiellonian University Medical College, Faculty of Pharmacy, Krakow, Poland
T23-005E	757	T23	Glia - glia interaction	Time-of-Day-Dependent Expression of Astrocytic Connexins in the Hippocampus	A. Uelwer <sup>1</sup> , <b>A. Ali</b> <sup>1</sup> , C. von Gall <sup>1</sup>	<sup>1</sup> Heinrich Heine University, Institute of Anatomy 2, Düsseldorf, North Rhine-Westphalia, Germany