Meeting Program

XIII European Meeting on Glial Cells in Health and Disease

Edinburgh

July 8–11, 2017

www.gliameeting.eu

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ZEISS

Meeting Program

XIII European Meeting

on Glial Cells in Health and Disease

Edinburgh | July 8–11, 2017

Network Glia e.V. was founded in 2011 with the goal of enhancing public awareness and scientific exchange on glial cells.

Network Glia

The association has two major activities:

1. The WEBSITE offers material both for the general public such as
   - an introduction to glial cells and for glial researchers
   - a list of animal models for glia research
   - an online library with classic glia papers
   - a list of scientific networks in glial research

2. Organizing the EUROPEAN MEETINGS ON GLIAL CELL FUNCTION IN HEALTH AND DISEASE.

Network Glia e.V.
Max Delbrück Centrum für Molekulare Medizin (MDC) Berlin-Buch
Robert-Rössle-Str. 10, 13125 Berlin, Germany
Tel.: +49 30 9406 3336, Email: gibson@mdc-berlin.de

Sponsored by GLIA

Table of Contents

Welcome

Dear Glia community,

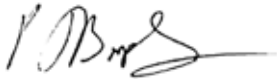
The XIII European Meeting on Glial Cells in Health and Disease welcomes neuroglia researchers from all over the world to Edinburgh.

More than 20 years after being established by an inaugural meeting in Heidelberg, the European Glial meeting has become the world's largest and most comprehensive scientific gathering on glial cell biology and medicine. After the success of the 2015 meeting in Bilbao, the conference comes to Edinburgh, the city where the Scottish pathologist W. Ford Robertson first recognised the oligodendrocyte in 1899. Here, you are being hosted by the vibrant glial research community based in Scotland whose internationally-leading work encompasses the full range of fundamental and translational glial neuroscience.

The 2017 meeting has attracted a record attendance, with 1250 registered participants and 720 posters – a sure sign of the importance of our field and the interactive and collegiate nature of our community. The meeting is being held in the Edinburgh International Conference Centre, a wonderful state of the art facility in the heart of the city that provides superb lecture, poster and other facilities. Here you can share and discuss the plenary lectures, symposia, posters and exhibits that will define and extend the cutting edges of our exciting field.

The Conference Centre is within walking distance of Edinburgh's wealth of restaurants, cafes and shops as well as the unique and spectacular historical architecture of the Castle, Old Town and New Town for which the capital city of Scotland is justly famous. A modern public transport system, including Europe's newest tramline connecting to the airport, means that your accommodation, and the full range of Edinburgh's lively cultural and social scene, is in easy reach of the Conference Centre. We, like you, are greatly looking forward to the next few days and please do seek us, or any members of the local organizing committee, out if you need help or advice about the meeting and our beautiful city.

Charles ffrench-Constant
Center for Regenerative Medicine (MRC)
University of Edinburgh



Peter Brophy
Centre for Neuroregeneration
University of Edinburgh

Committees

PROGRAM COMMITTEE

Bruce Ransom (USA), Chair
Maria Cecilia Angulo (France)
Anne Baron-Van Evercooren (France)
Benedikt Berninger (Germany)
Shumin Duan (China)
Charles ffrench-Constant (UK)
Robin Franklin (UK)
Kazuhiro Ikenaka (Japan)
Claire Jacob (Switzerland)
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Stéphane Oliet (France)
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Michael Wegner (Germany)

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Carlos Matute (Spain)
Rhona Mirsky (UK)
Eva Sykova (Czech Republic)

LOCAL ORGANIZING COMMITTEE

Peter Brophy (University of Edinburgh), Chair
Charles ffrench-Constant (University of Edinburgh), Chair
Susan Barnett (University of Glasgow)
Julia Edgar (University of Glasgow)
Giles Hardingham (University of Edinburgh)
David Lyons (University of Edinburgh)
Dies Meijer (University of Edinburgh)
Veronique Miron (University of Edinburgh)
Dirk Sieger (University of Edinburgh)
Anna Williams (University of Edinburgh)

Sponsors and Exhibitors

The Network Glia e. V. and the organizers of the XIII European Meeting on Glial Cells in Health and Disease would like to thank the following sponsors and exhibitors for their generous support (in alphabetic order, as of June 2017):

GOLD SPONSOR

WILEY

SILVER SPONSORS

MACS Miltenyi Biotec

MS National Multiple Sclerosis Society

Nestlé Research

ZEISS

SPONSORS

LOCAL SPONSORS

EXHIBITORS	BOOTH NO.
Abcam plc	2
Carl Zeiss Ltd.	4
Femtonics Ltd.	3
Hello Bio Ltd.	5
Miltenyi Biotec GmbH	1
Thorlabs Ltd.	6

Profiles of Supporting Foundations, Organizations and Companies

(IN ALPHABETICAL ORDER)

Abcam plc

As an innovator in reagents and tools, Abcam's purpose is to serve life science researchers globally to achieve their mission, faster. Providing the research and clinical communities with tools and scientific support, the Company offers highly validated biological binders and assays to address important targets in critical biological pathways.

Already a pioneer in data sharing and ecommerce in the life sciences, Abcam's ambition is to be the most influential company in life sciences by helping advance global understanding of biology and causes of disease, which, in turn, will drive new treatments and improved health.

To find out more, please visit www.abcam.com

Anne Rowling Regenerative Neurology Clinic

The Anne Rowling Regenerative Neurology Clinic is a charitable University of Edinburgh care and research facility focusing on a wide range of neurological conditions, especially neurodegenerative diseases.

Neurological diseases represent one of the major public health threats in the industrialised world. These diseases include multiple sclerosis (MS), motor neurone disease (MND or ALS), Parkinson's disease (PD) and movement disorders, cognitive disorders and dementias and Huntington's disease (HD).

We aim to improve patients' lives through research: translating laboratory findings into clinical trials and ultimately, new therapies.

In the welcoming environment of the Anne Rowling Clinic, we provide outpatient care for people with a neurological condition. All clinical activity is undertaken in partnership with the UK's National Health Service (NHS). Importantly, patients of the Anne Rowling Clinic have first-hand access to research projects and clinical trials, should they wish to participate.

Behind the patient-clinician interface, laboratory-based and clinical research underpins the activities of the Anne Rowling Clinic. The research targets the discovery of treatments that will slow progression of neurodegenerative diseases. The ultimate goal is to repair the damage – so-called Regenerative Neurology.

www.annerowlingclinic.com

ARSEP

ARSEP Foundation, the French Multiple Sclerosis Research, has two missions: 1) support research (about 2 millions per year) in any basic and clinical research fields focused on MS. Financial support could be for laboratory expenses, equipment and fellowships, travel grants. Projects outside of France can be funded provided they are integrated into a multicenter project including at least one French team with a major role in the project; 2) communicate the most relevant information on medical, scientific and therapeutic advances for people with MS (newsletter, booklets, website, meetings, cultural and sporting events) and for professionnals by organizing meetings, and workshops.

www.arsep.org

Carl Zeiss Ltd.

Carl Zeiss Microscopy is the world's only one-stop developer of light, X-ray and electron microscopes. The product range includes light microscopes, confocal systems for laser scanning microscopy, a full portfolio of electron and ion beam microscopes, and perfectly-tailored software solutions for image processing, image documentation and reporting. Join us to learn more about our microscopy solutions.

www.zeiss.com/micro

Femtonics Ltd.

Femtonics is one of the most dynamically expanding manufacturers of two-photon laser scanning microscopy. We make unique, custom designed 2D systems and as a pioneer, we have introduced real-time 3D imaging technology to the market. By our modularity, each Femtonics microscope fits the researcher's own needs and it can suit a wide variety of biological in vivo and in vitro applications. Our other advantage is our multidisciplinary team which continually enhance and confirm the scientific applicability of our new developments.

http://femtonics.eu

Hello Bio Ltd.

Say hello to prices up to 50% less than other suppliers!

As experienced scientists, we aim to offer high quality research tools at prices so low that as many researchers as possible will be able to afford them.

Our range includes high quality life science reagents and biochemicals for:

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- GPCRs
- DREADDs
- Ionotropic receptors
- Ion channels
- Enzymes
- Stem cells
- Signaling pathways

We'd love you to give us a try!

- Expert chemical manufacturers
- Endorsed by scientists worldwide
- Biologically tested products
- Hello BioPromise quality guarantee
- Free trials
- Everyday affordable prices

Have you said hello yet? Visit our stand! www.hellobio.com

IBRO

IBRO is the global federation of neuroscience organizations that aims to promote and support neuroscience training, teaching, collaborative research and advocacy around the world. More than 80 international, national and regional scientific organizations constitute IBRO's Governing Council which, together with the five IBRO Regional Committees, address the needs and advance the work of individual scientists and research communities everywhere. In addition, IBRO has partnerships with like-minded scientific societies and organizations to identify priorities and help bridge gaps in knowledge, investment and resources in the field of brain research.

www.ibro.info

MedImmune

MedImmune is the global biologics research and development arm of AstraZeneca with candidate biologics and vaccines that currently compromise approximately 50 per cent of AstraZeneca's overall R&D pipeline. It has one of the most robust and promising pipelines in the biologics industry, with more than 120 biologics in research and development and over 40 projects in clinical stage development.

MedImmune is pioneering innovative research and exploring novel pathways across key therapeutic areas, including oncology; respiratory; and cardiovascular and metabolic disease. In addition, the company is opportunistic in infectious disease and vaccines. Approximately 2,200 full-time employees are in the US and UK. MedImmune is headquartered in Gaithersburg, MD – one of AstraZeneca's three global R&D centres, along with Cambridge, UK and Molndal, Sweden.

www.medimmune.com

Miltenyi Biotec GmbH

Miltenyi Biotec is a global provider of products and services that advance biomedical research and cellular therapy. Our innovative tools support research at every level, from basic research to translational research to clinical application. Used by scientists and clinicians around the world, our technologies cover techniques of sample preparation, cell isolation, cell sorting, flow cytometry, and cell culture. Our 25 years of expertise spans research areas including immunology, stem cell biology, neuroscience, and cancer. Today, Miltenyi Biotec has more than 1,800 employees in 25 countries – all dedicated to helping researchers and clinicians make a greater impact on science and health.

www.miltenyibiotec.com

The UK MS Society

We are one of the largest not-for-profit funders of MS research in Europe and one of the key players globally.

We are committed to funding and supporting high quality, relevant research to improve the quality of life of people affected by MS and to develop better interventions to prevent and treat MS. Since 1956, we have invested over £155m in MS research and contributed to a range of important developments that, at this critical moment, provide unparalleled opportunity and hope to the global MS community.

www.mssociety.org.uk

National MS Society

The complexity of MS requires a comprehensive research strategy that fuels knowledge and speeds better treatments, health care policies, and new disease and symptom management therapies so that there are treatments for everyone and so that people with MS can live their very best lives. The National MS Society provides grant funding, research training, and shared resources, to support the brightest scientists exploring questions underlying MS. We manage a diverse portfolio of academic and commercial research projects, provide training fellowships, foster global collaboration, and convene experts to identify strategic research priorities.

nationalmssociety.org/For-Professionals/Researchers/Society-Funding

Nestlé SA

Nestlé is the world's largest food and beverage company. It is present in 189 countries around the world, and its 328,000 employees are committed to Nestlé's purpose of enhancing quality of life and contributing to a healthier future. Nestlé has one of the most advanced research and development networks in the industry, employing more than 5,000 people, with 40 R&D facilities worldwide.

www.nestle.com

Peprotech EC Ltd.

Established in 1988 by a group of scientists, PeproTech is a privately owned biotechnology company focusing on the development and manufacture of high quality cytokine products for the life-science and cell therapy markets. Over the past 29 years the company has grown into a global enterprise with state-of-the-art manufacturing facilities in the US, and offices around the world. With over 2,000 products PeproTech has developed and refined innovative protocols to ensure quality, reliability and consistency. Our mission is to provide the highest quality products to support the needs of today's scientists and researchers.

www.peprotech.com

THORLABS Ltd.

Although Thorlabs' roots are in the photonics industry, in recent years the company has grown from the laser and electro-optics markets to serve the life sciences and bio-medical segments. As a testament to its growth and dedication to these R&D and research communities, Thorlabs has expanded its portfolio to include a variety of scientific cameras, microscopes, microscopy accessories, femtosecond lasers, OCT systems, and vibration isolation systems. Thorlabs utilizes a vertically-integrated manufacturing design to design and produce custom solutions that fit specific needs in these areas.

www.thorlabs.com

Wiley

Wiley, a global company, helps people and organizations develop the skills and knowledge they need to succeed. Our online scientific, technical, medical, and scholarly journals, combined with our digital learning, assessment and certification solutions help universities, societies, businesses, governments, and individuals increase the academic and professional impact of their work.

www.wiley.com

FEPS2017

VIENNA · AUSTRIA
SEPTEMBER 13th – 15th, 2017

JOINT MEETING OF THE FEDERATION OF EUROPEAN PHYSIOLOGICAL SOCIETIES AND THE AUSTRIAN PHYSIOLOGICAL SOCIETY WITH PARTICIPATION OF THE CZECH, FRENCH, ITALIAN, SLOVAK, SLOVENIAN, SWISS AND TURKISH PHYSIOLOGICAL SOCIETIES

Federation of European Physiological Societies
FEPS
1991

WWW.FEPS2017.ORG

Pentland
Plenary Lectures
Symposia

Sidlaw
Symposia

Dressing Rooms 1+2
Prayer Rooms

Harris 2
Network Glia Office

Harris 1
Media Check

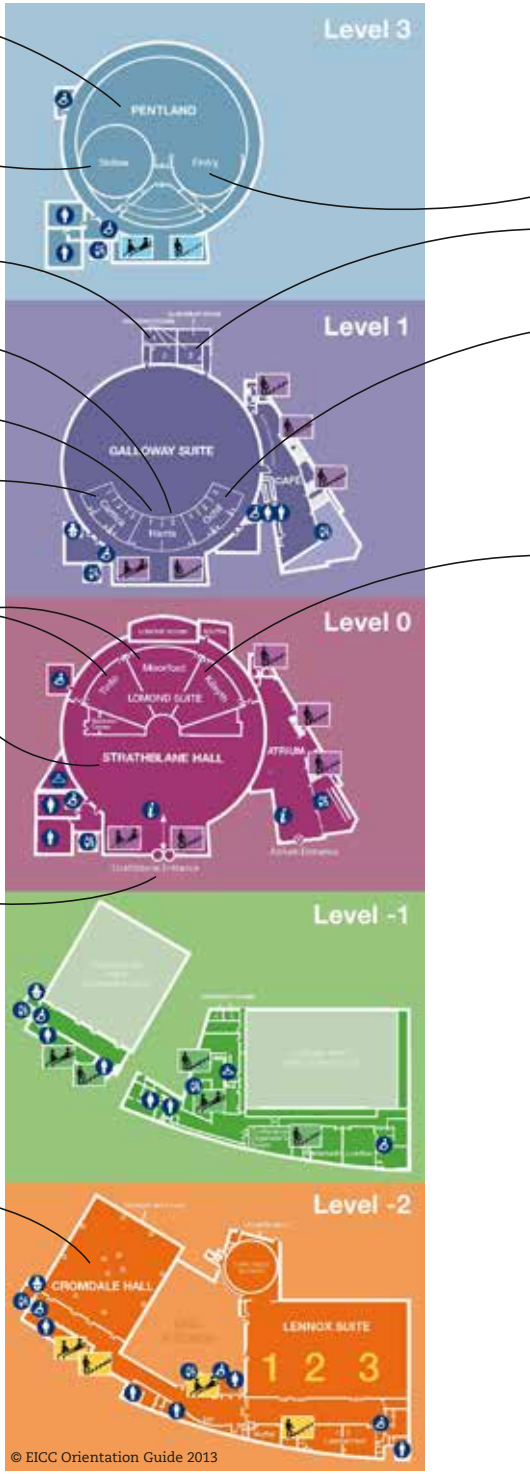
Carrick
Childcare

Tinto + Moorfoot
Introductory Course
Symposia

Strathblane Hall
Registration
Exhibition
Catering
Late Poster Session

Strathblane Entrance
Main Entrance

Cromdale Hall
Poster Sessions



Floor Plan

Fintry
Symposia

Dressing Room 3
Baby Feeding Room

Ochil
Working Area

Kilsyth
Symposia

Strathblane Hall

BOOTH NO.	EXHIBITORS
1	Miltenyi Biotec GmbH
2	Abcam plc
3	Femtonics Ltd.
4	Carl Zeiss Ltd.
5	Hello Bio Ltd.
6	Thorlabs Ltd.

Surrounding Map

ATMs & Banks

1 Bank of Scotland
Shandwick Pl,
Edinburgh EH2 4RR

2 Nationwide
3 S Charlotte St, West End
Edinburgh EH2 4AN

3 HSBC
118 Princess St
Edinburgh EH2 4AA

4 Halifax ATM
131–133 Princess St
Edinburgh EH2 4AH

5 LINK
11 Cowgatehead
Edinburgh EH1 1JY

Supermarkets

6 Sainsbury's Local
3 Morrison St
Edinburgh EH3 8BH

7 Costcutter express 24HR
125 Lothian Rd
Edinburgh EH3 9AD

8 The Co-operative Food
49 Shandwick Pl
Edinburgh EH2 4SD

9 Tesco Express
141 Princes St
Edinburgh EH2 4BL

10 Co-op Food Edinburgh
26-28 Frederick St
Edinburgh EH2 2JR

Restaurants & Bars

11 read meets Bread
92 Lothian Road
Edinburgh EH3 9BE

12 Bite Me
167 Haymarket Terrace
Edinburgh EH3 8AG

13 Innis Gunn & Beer Kitchen
81-83 Lothian Rd
Edinburgh EH3 9AW

14 The One
1 Festival Square
Edinburgh EH3 9SR

15 The Jolly Botanist
260 Morrison St
Edinburgh EH3

1
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13
14
15
Edinburgh International Conference Centre
Sheraton Grand Hotel & Spa, Edinburgh
Usher Hall
Odeon Cinema Edinburgh
Edinburgh Castle
National War Museum
Scottish National Gallery
St John's Episcopal Church
The Church of St Cuthbert
Edinburgh College of Art
National Museum of Scotland
Scott Monument
The Edinburgh Dungeon
The Real Mary King's Close
St Giles' Cathedral
New College
Camera Obscura & World of Illusions
The Three Sisters
Greyfriars Kirk
Central Library
The Balmoral
North Bridge
Lothian Rd
Castle Terrace
Morrison St
Dean Village
map data © 2017 Google

General Information
IN ALPHABETIC ORDER

ABSTRACTS
The meeting abstracts are published in electronic form only and will be available online for download via the meeting's website www.gliameeting.eu.

BADGE
Upon registration at the meeting office, attendants will receive a name badge which allows entrance to the meeting. All participants are asked to wear their badge visibly at all times.

CEILIDH (Scottish Evening Event on Friday, July 7)
For more details see page 22.

CERTIFICATE OF ATTENDANCE
Certificates of attendance will be sent to every participant by e-mail after the meeting has taken place.

CHILDCARE SERVICE
Childcare service is provided by the local-based company Super Mums in room Carrick (level 1) and is offered during the main hours of the conference 8:30–19:30 from July 8–10 and 08:30–14:00 on July 11. Parents were requested to register their child in advance. A baby feeding room is provided in level 1 as well.

ELECTRICITY SUPPLY AND POWER ADAPTER
230 V–50 Hz AC

Most of the delegates (e.g. from Canada, France, Germany, Italy, Spain, the US) will need a power adapter for their electronical devices. Delegates who find out on-site that they need one can buy it for about £5 here (about 900 meters from the conference centre):

Currys PC World
120 Princes St
Edinburgh EH2 4AD

EXHIBITION
Exhibition opening times:

Saturday, July 8, 2017	13:00–20:00
Sunday, July 9, 2017	08:30–18:30
Monday, July 10, 2017	08:30–18:30
Tuesday, July 11, 2017	08:30–13:00

INSURANCE
The organizers do not take responsibility for individual medical, travel or personal insurance. Participants are advised to carry out their own insurance policies.

INTERNET ACCESS

Wireless internet access is available free of charge throughout the conference venue.

Login/network: delegate

Password: haymarket

LUNCH

Lunch is available from Sunday to Tuesday in form of snack bags.

MEDIA CHECK/SPEAKERS' SERVICE

The media check for oral presentations is located in the room Harris 1 on level 1 (see floor plan on page 14). We kindly ask you to hand in your presentation on a memory stick/CD ROM about 2 hours in advance of your talk, at the latest, or the day before.

Please note that using your own laptop will not be possible.

Opening times:

Friday, July 7, 2017	16:00–18:00
Saturday, July 8, 2017	07:00–19:00
Sunday, July 9, 2017	07:30–19:00
Monday, July 10, 2017	07:30–19:00
Tuesday, July 11, 2017	07:30–12:30

MEETING OFFICE

Opening times:

Friday, July 7, 2017	08:00–11:00 (Registration Introductory Course only)
	16:00–18:00
Saturday, July 8, 2017	07:00–20:00
Sunday, July 9, 2017	07:30–19:30
Monday, July 10, 2017	07:30–19:30
Tuesday, July 11, 2017	07:30–14:00

Phone:	+49 (0)176 70921007
E-mail:	info@glia2017.eu

ORGANIZATION

Network Glia e.V.

Max Delbrück Center for Molecular Medicine (MDC) Berlin-Buch

Robert-Rössle-Str. 10, 13092 Berlin, Germany

E-mail: gibson@mdc-berlin.de

www.networkglia.eu

K.I.T. Group GmbH

Bautzner Str. 117–119, 01099 Dresden, Germany

E-mail: info@kitdresden.de

www.kit-group.org

POSTER SESSIONS

Each poster will hang for one day: Posters with poster numbers ending with an A will hang on Saturday, July 8, posters with poster numbers ending with a B will hang on Sunday, July 9 and poster numbers ending with a C will hang on Monday, July 10. There is no poster session on Tuesday, July 11.
The presenting author of each poster is requested to be present at her/his poster during the poster session. The poster sessions are divided into even and uneven serial numbers. Each poster is presented in one session of 90 min.

Posters with numbers ending with A:

(Hanging of posters: Saturday, July 8, before 14:00)

Uneven serial numbers (e.g. T01-**03**A):
Saturday, July 8, 2017 14:15–15:45
Even serial numbers (e.g. T01-**04**A):
Saturday, July 8, 2017 15:45–17:15

All posters must be removed on Saturday until 18:00. Remaining posters will be disposed.

Posters with numbers ending with B:

(Hanging of posters: Sunday, July 9, before 12:00)

Uneven serial numbers (e.g. T03-**03**B)
Sunday, July 9, 2017 12:45–14:15
Even serial numbers (e.g. T03-**04**B)
Sunday, July 9, 2017 14:15–15:45

All posters must be removed on Sunday until 16:30. Remaining posters will be disposed.

Posters with numbers ending with C:

(Hanging of posters: Monday, July 10, before 12:00)

Uneven serial numbers (e.g. T05-**03**C)
Monday, July 10, 2017 12:45–14:15
Even serial numbers (e.g. T05-**04**C)
Monday, July 10, 2017 14:15–15:45

All posters must be removed on Monday until 16:30. Remaining posters will be disposed.

The size of a poster is DIN A0 landscape format (85 cm height, 119 cm width).
Power strips to hang your poster are available at the poster help desk.
For more details about the poster presentations see page 47.

PUBLIC TRANSPORTATION AND TRAVEL

Accessibility from Edinburgh Airport to the city centre/venue

By bus

The Edinburgh Airport is located about 13 km away from the city. A simple and cheap way to get to the centre of Edinburgh from the airport is to take the shuttle bus Airlink (Service 100). The stop is located on bus stop D. The bus runs day and night (from 4:30 to 0:35 every 10 minutes, from 0:35 to 4:30 every 30 minutes) and takes about 30 minutes to get into the city. The terminal station is **"Waverley Bridge"**, near to Waverley Railway Station. It is a 20 minutes' walk from this station to the Edinburgh International Conference Centre (EICC).

Cost for a single ticket: £4.50

By taxi

Taxis generally take about 20–25 minutes and cost approx. £25 per ride. There is a taxi stand outside of the arrival hall of Edinburgh Airport.

REGISTRATION

On-site registration will be available on all conference days, registration fees can be paid by credit card (Visa, Mastercard, AMEX) or in cash, but only in €. Cash payments in £ cannot be accepted.

Full registration (all days):

Scientists:	€590
Students, PhD Students:	€350
Commercials:	€650
Introductory Course on Glial Biology:	€40 (Students) / €85 (Scientists)

Registration per day:

Scientists:	€190
Students, PhD Students:	€140
Commercials:	€230

Students must show their valid student identity card!

Registration fee includes:

– Admission to all sessions, poster area and exhibition
– Lunch bags from Sunday to Tuesday
– Admission to the welcome reception
– Conference bag including program booklet, city map and sponsor materials

TAXI

Following taxi associations offer a 24-hour service in Edinburgh, including airport transfers:

Central Taxis	www.taxis-edinburgh.co.uk phone: +44 131 2292468
City Cabs	www.citycabs.co.uk phone: +44 131 2281211

VENUE

Edinburgh International Conference Centre
The Exchange
Edinburgh, EH3 8EE

Student Ceilidh

after the Introductory Course on Friday, July 7, 2017

A fun evening of traditional Scottish dancing with the Science Ceilidh Band, plus a glass of wine on arrival! There will be a pay bar for additional drinks.

WHEN: 20:00–23:00, Friday, July 7, 2017

WHERE: Debating Hall, Teviot Row House,
3 Bristo Place, Edinburgh EH8 9AJ

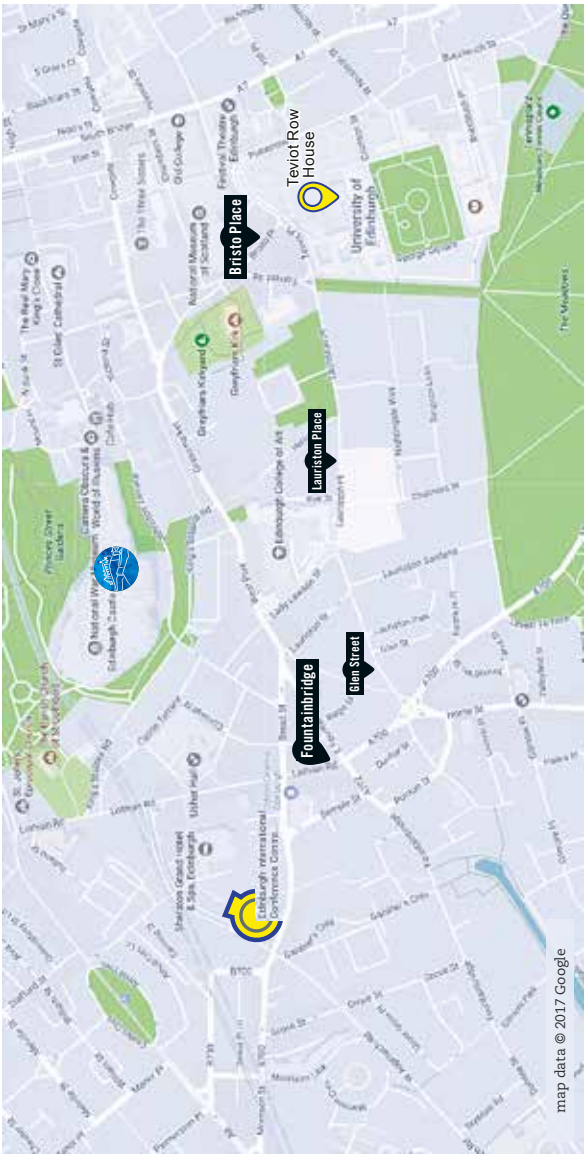
COST: €12

WHO CAN ATTEND? Delegates who have registered for the Introductory Course on Friday July 7, 2017 or for the main meeting.

HOW TO GET TICKETS? If you have not booked your ticket for the Ceilidh in advance please ask at the registration desk if there are still tickets available. Payment is possible by credit card (VISA, Mastercard, American Express) or in cash, but only in €.

ABOUT THE VENUE: Teviot Row House is the oldest purpose built Student Union in the world. It opened its doors in 1889 and it remains one of the most vibrant and well used Student Union venues in the country.

HOW TO GET THERE: The bus station Fountainbridge is in walking distance (about 5 min) from the Edinburgh International Conference Centre (EICC). Take **bus no. 47, direction Ladywood.** After 3 stops go out at the station **Bristo Place.** The venue Teviot Row House is about 200 meters from the bus station.



Scientific Program

FRIDAY, JULY 7, 2017

Tinto + Moorfoot Room (Level 0)

09:30–17:00 Introductory Course

09:30–10:05 **Dwight Bergles** Baltimore, USA
Live imaging of glia I-01

10:05–10:40 **Rory Duncan** Edinburgh, UK
Super resolution microscopy I-02

10:40–11:10 Coffee Break

11:10–11:45 **David Lyons** Edinburgh, UK
Using zebrafish to understand glial biology I-03

11:45–12:20 **Klaus-Armin Nave** Göttingen, Germany
A dual role of myelinating glia in axonal conduction and energy metabolism I-04

12:20–12:55 **David Rowitch** San Francisco, USA and Cambridge, UK
Astrocytes I-05

12:55–14:00 Lunch

14:00–14:35 **Veronique Miron** Edinburgh, UK
Microglia: the architects of the central nervous system in health and disease I-06

14:35–15:10 **Steve Goldman** Rochester, USA and Copenhagen, Denmark
iPS cells to study glia and glial diseases I-07

15:10–15:40 Coffee Break

15:40–16:15 **Steve Pollard** Edinburgh, UK
Glial tumours and cancer stem cells I-08

16:15–16:50 **Anna Williams** Edinburgh, UK
Remyelination I-09

Teviot Row House, Edinburgh University

20:00–23:00 Student Ceilidh
For further information please see page 24.

SATURDAY, JULY 8, 2017

08:30–12:30 WORKSHOPS

Tinto + Moorfoot Room (Level 0)

08:30–12:30 Workshop I

supported by ZEISS

WILLIAM FORD ROBERTSON LITTLE BRANCHED CELLS: PAVING THE WAY TO OLIGODENDROCYTE AND MICROGLIA DISCOVERY

Organizers: Anne Boullerne Chicago, USA
George De Vries Richmond, USA

08:30–09:05 **George de Vries** Richmond, USA
The controversy concerning the "third element" of Santiago Ramón y Cajal W01-01

09:05–09:40 **Arthur Butt** Portsmouth, UK
William Ford Robertson and his little branched brain cells W01-02

09:40–10:15 **Juan del Río-Hortega Bereciart** Valladolid, Spain
Microglia and Oligodendroglia: the unfortunate story of Pío del Río-Hortega W01-03

10:15–10:45 Coffee Break

10:45–11:20 **Anne Boullerne** Chicago, USA
A brief history of myelin from 15th century to present W01-04

11:20–11:55 **Paul Foley** Sydney, Australia
So misunderstood: The story of the Schwann cell W01-05

11:55–12:30 **Discussion**

Pentland Suite (Level 3)

08:30–12:30 Workshop II

supported by

MICROGLIA IN PATHOLOGY: UNDERSTANDING AND MANIPULATING MICROGLIAL FUNCTIONS IN CNS PATHOLOGY

Organizers: Barry McColl Edinburgh, UK
Dirk Sieger Edinburgh, UK
Veronique Miron Edinburgh, UK
Guy Brown Cambridge, UK

08:30–09:00 **Dirk Sieger** Edinburgh, UK
A zebrafish live imaging model to study microglia-glioma interactions W02-01

09:00–09:30 **Barry McColl** Edinburgh, UK
Benefits and mechanisms of microglial/macrophage activation on injury resolution and repair in the brain after stroke W02-02

09:30–10:00 **Anna Vilalta** Cambridge, UK
Inflammation and neurotoxic mechanisms of microglia W02-03

10:00–10:15 **Bert J. L. Eggen** Groningen, Netherlands
The human microglia transcriptome in relation to aging W02-04

10:15–10:45 Break

10:45–11:15 **Kim Green** Irvine, US
Microglia in the pathogenesis of Alzheimer's disease W02-05

11:15–11:45 **José Luis Venero** Seville, Spain
Immunomodulatory roles of galectin-3 under conditions of neurodegeneration W02-06

11:45–12:15 **Inge Huitinga** Amsterdam, Netherlands
Microglia in multiple sclerosis pathology W02-07

12:15–12:30 **Stefan Milde** Cambridge, UK
The microglial P2Y6 receptor mediates inflammatory neuron loss in models of Alzheimer's and Parkinson's disease W02-08

Pentland Suite (Level 3)

13:00–13:15 Opening

Pentland Suite (Level 3)

13:15–14:15 Plenary Lecture P01

Chair: Bruce Ransom Seattle, USA

Eric A. Newman Minneapolis, USA

Glial cell regulation of blood flow: fact or fantasy?

Cromdale Hall (Level -2)

14:15–17:15 Poster Session I

Late posters are located in the Strathblane Hall (Level 0).

During 16:45 and 17:15, coffee and tea will be served at the Strathblane Hall.

17:15–19:15 SYMPOSIA I (S01–S05)

Kilsyth Room (Level 0)

17:15–19:15 Symposium S01

SCHWANN CELLS AND THEIR ROLE IN MOTOR AXON REGENERATION

Organizers: Michela Rigoni Padua, Italy

Rhona Mirsky London, UK

17:15–17:45 **Thomas Misgeld** Munich, Germany

Neuro-glial interactions during motor axon remodelling S01-01

17:45–18:15 **Richard Robitaille** Montreal, Canada

Role of persisynaptic Schwann cells in the outcome of synaptic competition at the neuromuscular synapse S01-02

18:15–18:45 **Rhona Mirsky** London, UK

Transcriptional mechanisms that maintain Schwann cell function and morphology S01-03

18:45–19:15 **Michela Rigoni** Padua, Italy

Motor axon terminal-perisynaptic Schwann cells crosstalk at the neuromuscular junction during neuroregeneration S01-04

Sidlaw Auditorium (Level 3)

17:15–19:15 Symposium S02

TRANSCRIPTIONAL STATES WITHIN THE OLIGODENDROCYTE LINEAGE

Organizer: Gonçalo Castelo-Branco Stockholm, Sweden

17:15–17:45 **Sarah Moyon** New York, USA
Integrated transcriptomic and methylomic network of the oligodendrocyte lineage S02-01

17:45–18:15 **Steve Goldman** Copenhagen, Denmark
Human glial progenitor cell-based treatment and modeling of neurological disease S02-02

18:15–18:45 **Annalisa Buffo** Torino, Italy
Are oligodendrocyte progenitors all born equal? Lessons from a microcephaly mouse model and fate-mapping studies S02-03

18:45–19:15 **Gonçalo Castelo-Branco** Stockholm, Sweden
Oligodendrocyte heterogeneity in the central nervous system as revealed by single cell RNA-Seq S02-04

Pentland Auditorium (Level 3)

17:15–19:15 Symposium S03

GLIAL PHYSIOLOGY MEETS GLIAL METABOLISM

Organizer: Pierre Magistretti Thuwal, Saudi Arabia

17:15–17:45 **L. Felipe Barros** Valdivia, Chile
Multiscale integration of neuronal and astrocytic energy metabolism S03-01

17:45–18:15 **Bruno Weber** Zurich, Switzerland
Glia-neuron interaction in the light of in vivo two-photon imaging S03-02

18:15–18:45 **Pierre Magistretti** Thuwal, Saudi Arabia
Neuron-glia metabolic coupling: role in neuronal plasticity, memory and neuroprotection S03-03

18:45–19:15 **Arthur Konnerth** Munich, Germany
Astrocytes and storage of long-term memories S03-04

Fintry Auditorium (Level 3)

17:15–19:15 Symposium S04

GREASY ASTROCYTE-NEURON INTERACTIONS AT THE SYNAPSE

Organizers: Mark Verheijen Amsterdam, Netherlands
Marta Valenza Milan, Italy

17:15–17:45 **Frank Pfrieger** Strasbourg, France
Does synapse formation depend on glia-derived cholesterol: an update! S04-01

17:45–18:15 **Rogier Min** Amsterdam, Netherlands
The role of glial versus neuronal cannabinoid receptors in developmental plasticity of the visual cortex S04-02

18:15–18:45 **Mark Verheijen** Amsterdam, Netherlands
Synapse development is dependent on lipids derived from astrocytes and diet S04-03

18:45–19:15 **Marta Valenza** Milan, Italy
Connection between astrocytes, cholesterol and synaptic dysfunction in Huntington's disease S04-04

Tinto + Moorfoot Room (Level 0)

17:15–19:15 Symposium S05

GLIAL CELLS IN CONTROL OF BLOOD-BRAIN BARRIER INTEGRITY

Organizer: Luc Leybaert Gent, Belgium

17:15–17:45 **Luc Leybaert** Gent, Belgium
Connexins and calcium signaling as targets to mitigate inflammation-induced blood-brain barrier dysfunction S05-01

17:45–18:15 **Jorge I. Alvarez** Philadelphia, USA
The gliovascular interface functions as a central regulator of neuroinflammatory responses S05-02

18:15–18:45 **Ken Arai** Harvard, USA
Roles of oligodendrocyte precursor cells in blood-brain barrier under physiological and pathophysiological conditions S05-03

18:45–19:15 **Mirko H. H. Schmidt** Mainz, Germany
The neurovascular protein EGFL7 in health and disease S05-04

Strathblane Hall (Level 0)

19:15–20:00 Welcome Reception

SUNDAY, JULY 9, 2017

Pentland Suite (Level 3)

08:30–9:30 Plenary Lecture P02

Chair: Erik Boddeke Groningen, Netherlands

Mike W. Salter Toronto, Canada
Twists and turns in neuron-glia signalling in pain neuroplasticity

09:30–10:00 Break

In order to allow a quick rebuilding of the Pentland Suite for the following symposia, we would like to ask all delegates to leave this room during the break.

10:00–12:00 SYMPOSIA II (S06–S10)

Pentland Auditorium (Level 3)

10:00–12:00 Symposium S06

ROLE OF ASTROCYTES IN SYNAPTIC FUNCTION AND CHRONIC BRAIN DISEASES

Organizers: Michelle Olsen Birmingham, UK
Gabor Petzold Bonn, Germany

10:00–10:30 **Aude Panatier** Bordeaux, France
Astrocytic EphB3 receptor controls NMDAR functions at the tripartite synapse S06-01

10:30–11:00 **Andrea Volterra** Lausanne, Switzerland
Astrocyte-synapse signalling in cognitive function and dysfunction: 3D Ca2+ dynamics and role of TNFα S06-02

11:00–11:30 **Michelle Olsen** Birmingham, UK
A role for astrocytes in chemoreception: implications for Rett syndrome S06-03

11:30–12:00 **Gabor Petzold** Bonn, Germany
Role of astrocytes in stroke and Alzheimer's disease S06-04

Sidlaw Auditorium (Level 3)

10:00–12:00 Symposium S07

SYNAPTIC REGULATION OF NG2 CELL FUNCTION

Organizer: Vittorio Gallo Washington, USA

10:00–10:30 **Jonah Chan** San Francisco, USA
Uncoupling oligodendrocyte differentiation and myelination during development of the optic nerve: is dynamic neuronal signaling required? S07-01

10:30–11:00 **Vittorio Gallo** Washington, USA
GABAergic regulation of NG2 cell function and myelination in cerebellum S07-02

11:00–11:30 **Maria Kukley** Tubingen, Germany
Regulation of oligodendrocyte precursor cells differentiation by AMPA receptors in vivo S07-03

11:30–12:00 **Jacqueline Trotter** Mainz, Germany
More than myelination: oligodendrocyte progenitor cells as receivers and transducers of neuronal network signals S07-04

Fintry Auditorium (Level 3)

10:00–12:00 Symposium S08

SCHWANN CELL PLASTICITY IN NERVE INJURY, DEMYELINATING NEUROPATHIES AND TUMOURS OF THE PNS

Organizers: David Parkinson Plymouth, UK
Ashwin Woodhoo Derio, Spain

10:00–10:30 **David Parkinson** Plymouth, UK
The Merlin tumour suppressor controls the repair capacity of Schwann cells following injury by regulating Hippo pathway signalling S08-01

10:30–11:00 **Nancy Ratner** Cincinnati, USA
Signaling pathways critical to peripheral nerve tumorigenesis S08-02

11:00–11:30 **Maurizio D'Antonio** Milan, Italy
Limited Schwann cell differentiation as a protective mechanism in CMT1B neuropathy with activated unfolded protein response S08-03

11:30–12:00 **Ashwin Woodhoo** Derio, Spain
The Borrelia burgdorferi bacterium: a novel contact-dependent inducer of peripheral nerve demyelination S08-04

Tinto + Moorfoot Room (Level 0)

10:00–12:00 Symposium S09

MICROGLIA: GUIDING BRAIN DEVELOPMENT

Organizers: Bert Brône Hasselt, Belgium
Sonia Garel Paris, France

10:00–10:30 **Florent Ginhoux** Singapore
Modeling microglial differentiation and function in vitro using induced pluripotent stem cells S09-01

10:30–11:00 **Bert Brône** Hasselt, Belgium
Microglial integrins switch jobs during cortical development S09-02

11:00–11:30 **Sonia Garel** Paris, France
Microglia and prenatal inflammation in the development of cortical circuits S09-03

11:30–12:00 **Francesca Peri** Heidelberg, Germany
The brain under surveillance: the role neuronal-microglial interactions in the development and repair of the CNS S09-04

Kilsyth Room (Level 0)

10:00–12:00 Symposium S10

supported by

MATHEMATICAL AND COMPUTATIONAL APPROACHES TO THE 'BIG DATA' CHALLENGE IN NEURON-GLIA INTERACTIONS

Organizers: Maurizio De Pittà Chicago, USA
Elena Galea Bellaterra, Spain

10:00–10:30 **David Attwell** London, UK
Tuning of axonal conduction speed by myelinated axon morphology S10-01

10:30–11:00 **Maurizio De Pittà** Chicago, USA
Conditions for the observation of regulation of synaptic transmission by gliotransmitters S10-02

11:00–11:30 **Elena Galea** Bellaterra, Spain
Spatial analysis of astrocytes in health and in Alzheimer's disease S10-03

11:30–12:00 **Levi Wood** Atlanta, USA
Multivariate regression profiling of cytokines in Alzheimer's disease S10-04

Strathblane Hall (Level 0)

12:00–12:45 Lunch Break

Cromdale Hall (Level -2)

12:45–15:45 Poster Session II

Late posters are located in the Strathblane Hall (Level 0).

15:45–17:45 SYMPOSIA III (S11–S15)

Sidlaw Auditorium (Level 3)

15:45–17:45 Symposium S11

THE ROLE AND PROMISE OF NG2-GLIA IN CNS INJURY

Organizers: Michael Schäfer Mainz, Germany
Leda Dimou Munich, Germany

15:45–16:15 **Michael Schäfer** Mainz, Germany
The NG2 proteoglycan counteracts adverse glial responses and neurological deficits after traumatic brain injury S11-01

16:15–16:45 **Leda Dimou** Munich, Germany
NG2-glia in health and disease: their role in the adult brain S11-02

16:45–17:15 **Rebecca Matsas** Athens, Greece
Neural stem cell grafts in brain injury: reciprocal interactions with the host tissue S11-03

17:15–17:45 **Wolfram Tetzlaff** Vancouver, Canada
Fate mapping of oligodendrocyte precursor cells (OPCs) after spinal cord injury and role of oligodendrocyte remyelination in functional recovery S11-04

Tinto + Moorfoot Room (Level 0)

15:45–17:45 Symposium S12

ASTROCYTES IN COGNITIVE FUNCTION: FROM MOLECULES AND SYNAPSES TO CIRCUITS AND BEHAVIOR

Organizers: João Filipe Oliveira Braga, Portugal
Alfonso Araque Minneapolis, USA

15:45–16:15 **João Filipe Oliveira** Braga, Portugal
Astrocytes support hippocampal-prefrontal theta synchronization and cognitive function S12-01

16:15–16:45 **Alfonso Araque** Minneapolis, USA
Circuit-specific synaptic regulation by astrocytes S12-02

16:45–17:15 **Nathalie Rouach** Paris, France
Astroglial networks orchestrate neuronal synchrony S12-03

17:15–17:45 **Kira Poskanzer** San Francisco, USA
Astrocytic control of the cortical slow oscillation S12-04

Kilsyth Room (Level 0)

15:45–17:45 **Symposium S13**

supported by

CNS PERICYTES IN HEALTH AND DISEASE
Organizers:
Marisa Karow Munich, Germany
Christian Göritz Stockholm, Sweden

15:45–16:15 **Marisa Karow** Munich, Germany
Defining the molecular underpinnings of pericyte-to-neuron conversion S13-01

16:15–16:45 **Christian Göritz** Stockholm, Sweden
Attenuation of pericyte-derived fibrosis promotes axonal regeneration and functional recovery following CNS injury S13-02

16:45–17:15 **Paula Dore-Duffy** Detroit, USA
Murine microvascular pericyte differentiation along the neural lineage S13-03

17:15–17:45 **Kassandra Kisler** Los Angeles, USA
Regulation of cerebral blood flow in perciyte-deficient mice S13-04

Fintry Auditorium (Level 3)

15:45–17:45 **Symposium S14**

THE BASIC MECHANISMS OF SUCCESSFUL NEURAL REPAIR
Organizer: Kristjan Jessen London, UK

15:45–16:15 **Arnau Hervera** Barcelona, Spain
Immune-derived NOX2 and reactive oxygen species are essential regulators of axonal regeneration S14-01

16:15–16:45 **Kristjan Jessen** London, UK
Manipulation of repair Schwann cells to correct regeneration failures due to chronic denervation and advancing age S14-02

16:45–17:15 **Kelly Monk** St. Louis, USA
Adhesion GPCRs in peripheral nerve repair S14-03

17:15–17:45 **Ruth Stassart** Göttingen, Germany
The role of Schwann cell derived Neuregulin-1 in peripheral nerve diseases S14-04

Pentland Auditorium (Level 3)

15:45–17:45 Symposium S15
ROLE OF MICROGLIAL METABOLISM IN NEUROINFLAMMATION
Organizers: Henrik Hagberg Gothenburg, Sweden
Bobbi Fleiss London, UK

15:45–16:15 **Bobbi Fleiss** London, UK
Understanding the role of lipid metabolism in microglial activation S15-01

16:15–16:45 **Myriam Baes** Leuven, Belgium
Microglia metabolism: causes and consequences of immune activation S15-02

16:45–17:15 **Henrik Hagberg** Gothenburg, Sweden
Effect of inhibition of mitochondrial fission with mdivi-1 on the LPS-induced metabolic, immune and mito-morphologic responses in microglia S15-03

17:15–17:45 **Claudia Verderio** Milan, Italy
Functional roles of extracellular vesicles derived from microglia with diverse activation states S15-04

17:45–18:15 Break

In order to allow a quick rebuilding of the auditoria in Level 3 for the following plenary lecture, we would like to ask all delegates to leave these rooms during the break.

Pentland Suite (Level 3)

18:15–19:15 Plenary Lecture P03
Chair: Benedikt Berninger Mainz, Germany

Yukiko Gotoh Tokyo, Japan
Regulation of astrocyte production in the mouse neocortex

MONDAY, JULY 10, 2017

Pentland Suite (Level 3)

08:30–9:30 Plenary Lecture P04

Chair: Anne Baron-Van Evercooren Paris, France

Fiona Doetsch Basel, Switzerland
Stem cells in the adult brain: glial identity and niches

09:30–10:00 Break

In order to allow a quick rebuilding of the Pentland Suite for the following symposia, we would like to ask all delegates to leave this room during the break.

10:00–12:00 SYMPOSIA IV (S16–S20)

Fintry Auditorium (Level 3)

10:00–12:00 Symposium S16

IMPLICATIONS OF GLIAL DYSFUNCTION IN LYSOSOMAL STORAGE DISEASES

Organizer: Tammy Kielian Omaha, USA

10:00–10:30 **Tammy Kielian** Omaha, USA
Aberrant caspase-1 activity influences juvenile Batten disease pathogenesis S16-01

10:30–11:00 **Jonathan Cooper** London, UK
The nature of glial dysfunction and its impact upon neurons varies between forms of neuronal ceroid lipofuscinosis (NCLs, or Batten disease) S16-02

11:00–11:30 **Tony Futerman** Rehovot, Israel
Brain pathology in neurological forms of Gaucher disease S16-03

11:30–12:00 **Frances Platt** Oxford, UK
Changes in glial cell function in Niemann-Pick type C disease as therapeutic targets S16-04

Sidlaw Auditorium (Level 3)

10:00–12:00 Symposium S17

OPPOSING ROLES OF ASTROCYTE GAP JUNCTION COUPLING IN BRAIN DISEASES: PHOSPHORYLATION MATTERS?

Organizers: Christian Steinhäuser Bonn, Germany
Nanna MacAulay Copenhagen, Denmark

10:00–10:30 **Nanna MacAulay** Copenhagen, Denmark
Astrocytic connexin hemichannels are regulated by PKC phosphorylation in an isoform-specific manner S17-01

10:30–11:00 **Christian Naus** Vancouver, Canada
Connexin43 phosphorylation impacts ischemic injury in stroke S17-02

11:00–11:30 **Christian Steinhäuser** Bonn, Germany
Cytokine-induced phosphorylation of Cx43 and uncoupling of hippocampal astrocytes as a cause of human temporal lobe epilepsy S17-03

11:30–12:00 **Frank Winkler** Heidelberg, Germany
Cx43 gap junctions connect malignant astrocytoma cells to a functional and resistant network S17-04

Kilsyth Room (Level 0)

10:00–12:00 Symposium S18

DROSOPHILA GLIA: RECONSTRUCTING THE NERVOUS SYSTEM

Organizers: Angela Giangrande Illkirch, France
Alicia Hidalgo Birmingham, UK

10:00–10:30 **Angela Giangrande** Illkirch, France
The Glide/Gcm fate determinant controls initiation of collective cell migration by regulating Frazzled S18-01

10:30–11:00 **Alicia Hidalgo** Birmingham, UK
Glial gene networks for CNS regeneration and repair: from fruit-flies to mammals S18-02

11:00–11:30 **Benjamin Altenhein** Cologne, Germany
Glial cell migration in Drosophila: individual cell identities and cell-cell communication S18-03

11:30–12:00 **Christian Klämbt** Münster, Germany
Drosophila ensheathing glialcells actively modulate locomotion behavior S18-04

Pentland Auditorium (Level 3)

10:00–12:00 Symposium S19

SIGNALS REGULATING MICROGLIAL PHAGOCYTOSIS OF NEURONS, SYNAPSES AND MYELIN

Organizers: Guy Brown Cambridge, UK
Harald Neumann Bonn, Germany

10:00–10:30 **Guy Brown** Cambridge, UK
Microglial phagocytosis of neurons via VNR, MER and P2Y6 may contribute to inflammatory brain pathology S19-01

10:30–11:00 **Harald Neumann** Bonn, Germany
Inhibition of innate immunity by low molecular weight polysialic acid as a novel therapy approach for age related macular degeneration S19-02

11:00–11:30 **Dorothy Schafer** Worcester, UK
A synaptic feast: microglial phagocytosis governing neural circuit plasticity S19-03

11:30–12:00 **Shlomo Rotshenker** Jerusalem, Israel
Myelin activates and inhibits its own phagocytosis by simultaneous ligation of both activator-phagocytic and inhibitor-SIRPα receptors on microglia and macrophages S19-04

Tinto + Moorfoot Room (Level 0)

10:00–12:00 Symposium S20

CYTOSKELETON DYNAMICS IN GLIA

Organizers: João Bettencourt Relvas Porto, Portugal
Carmen Melendez-Vasquez New York, USA

10:00–10:30 **João Bettencourt Relvas** Porto, Portugal
Rho GTPase regulation of glia homeostasis S20-01

10:30–11:00 **Carmen Melendez-Vasquez** New York, USA
Mechanical properties of the injured CNS: implications for remyelination and repair S20-02

11:00–11:30 **Holly Colognato** Stony Brook, USA
Dystroglycan: a structural linker repurposed to regulate signaling pathways critical to postnatal brain development S20-03

11:30–12:00 **Andrew Jarjour** Edinburgh, UK
Polarity signalling controls the formation and organization of CNS myelin S20-04

Strathblane Hall (Level 0)

12:00–12:45 Lunch Break

Cromdale Hall (Level -2)

12:45–15:45 Poster Session III

Late posters are located in the Strathblane Hall (Level 0).

15:45–17:45 SYMPOSIA V (S21–S25)

Fintry Auditorium (Level 3)

15:45–17:45 Symposium S21

ASTROCYTE REGULATION OF NEURONAL SYNAPSE NUMBER AND STRENGTH

Organizers: Nicola Allen La Jolla, USA
Cagla Eroglu Durham, UK

15:45–16:15 **Nicola Allen** La Jolla, USA
Astrocyte regulation of neuronal glutamate receptors S21-01

16:15–16:45 **Chris Risher** Durham, UK
Control of synaptic connectivity by astrocytes S21-02

16:45–17:15 **Andreas Faissner** Bochum, Germany
Tenascin proteins and chondroitinsulfate proteoglycans modulate formation and plasticity of the tripartite synapse S21-03

17:15–17:45 **David Rowitch** Cambridge, UK
Development of functionally heterogeneous astrocytes in mammalian CNS S21-04

Kilsyth Room (Level 0)

15:45–17:45 Symposium S22

MICROGLIA PHYSIOLOGY IN HEALTH AND DISEASE: NEW MECHANISMS AND SIGNALLING PATHWAYS

Organizers: Christian Madry London, UK
Renaud Jolivet Geneva, Switzerland

15:45–16:15 **Christian Madry** London, UK
Microglial surveillance of the brain is regulated by an anaesthetic-sensitive two-pore domain K+ channel S22-01

16:15–16:45 **Renaud Jolivet** Geneva, Switzerland
Two-photon imaging of calcium signalling in hippocampal microglia S22-02

16:45–17:15 **Katerina Akassoglou** San Francisco, USA
Microglia responses to BBB disruption: mechanisms, imaging, therapeutics S22-03

17:15–17:45 **Knut Biber** Freiburg, Germany
Protective microglia responses are fading in models for neurodegenerative diseases S22-04

Sidlaw Auditorium (Level 3)

15:45–17:45 Symposium S23
DYSREGULATION OF PROTEIN TRANSLATION AND MYELIN DISORDERS
Organizer: Wensheng Lin Minneapolis, USA

15:45–16:15 **Orna Elroy-Stein** Tel Aviv, Israel
The importance of tight control of protein synthesis to brain homeostasis: lessons from vanishing white matter disease S23-01

16:15–16:45 **Christopher Proud** Adelaide, Australia
How do mutations in the genes for eukaryotic initiation factor 2B lead to vanishing white matter disease? S23-02

16:45–17:15 **Kevin Ess** Nashville, USA
Control of myelination by mTOR kinase signaling in tuberous sclerosis complex S23-03

17:15–17:45 **Wensheng Lin** Minneapolis, USA
Impaired eIF2B activity in oligodendrocytes contributes to vanishing white matter disease pathogenesis S23-04

Tinto + Moorfoot Room (Level 0)

15:45–17:45 Symposium S24
CONFLICTING ROLES OF NEURO-GLIAL RESPONSES IN STROKE AND BRAIN INJURY
Organizer: Jaroslaw Aronowski Houston, USA

15:45–16:15 **Eng Lo** Charlestown, USA
Help-me signaling for CNS recovery S24-01

16:15–16:45 **Jaroslaw Aronowski** Houston, USA
Ischemic neurons modulate early microglia/macrophages phenotype and post-injury brain cleanup and recovery process S24-02

16:45–17:15 **Jun Chen** Shanghai, China
Microglia/macrophage polarization: a double-edged sword for brain injury and repair S24-03

17:15–17:45 **Maria Moro** Madrid, Spain
Modulation of the interplay between the CNS and the innate immune system for neuroprotection and recovery in stroke S24-04

Pentland Auditorium (Level 3)

15:45–17:45 Symposium S25
HETEROGENEITY OF REACTIVE ASTROCYTES; DISSECTING ASTROCYTE (DYS)FUNCTION IN NEUROLOGICAL DISEASE
Organizers: Stefanie Robel Roanoke, USA
Frank Kirchhoff Homburg/Saar, Germany

15:45–16:15 **Keith Murai** Montreal, Canada
Mechanisms generating astrocyte diversity in the mature brain: Implications for the injured and diseased brain S25-01

16:15–16:45 **Magdalena Goetz** Munich, Germany
The role of astrocyte heterogeneity – from stem cells to scar formation S25-02

16:45–17:15 **Frank Kirchhoff** Homburg/Saar, Germany
Heterogeneity of astrocytes in the mouse cortex – how behavior or trauma affect glial properties in vivo S25-03

17:15–17:45 **Stefanie Robel** Roanoke, USA
Heterogeneity of reactive astrocytes in traumatic brain injury S25-04

17:45–18:15 Break

In order to allow a quick rebuilding of the auditoria in Level 3 for the following plenary lecture, we would like to ask all delegates to leave these rooms during the break.

Pentland Suite (Level 3)

18:15–19:15 Plenary Lecture P05
Chair: David Parkinson Plymouth, UK

Laura Feltri Buffalo, USA
Chemical and mechanical cues govern Schwann cell-axon interactions and myelination

TUESDAY, JULY 11, 2017

Pentland Suite (Level 3)

08:30–9:30 Plenary Lecture P06

supported by MedImmune

Chair: Carlos Matute Leioa, Spain

Richard Daneman San Diego, USA
Regulation of the blood-brain barrier in health and disease

9:30–10:00 Break

In order to allow a quick rebuilding of the Pentland Suite for the following symposia, we would like to ask all delegates to leave this room during the break.

10:00–12:00 SYMPOSIA VI (S26–S30)

Sidlaw Auditorium (Level 3)

10:00–12:00 Symposium S26

METABOLIC HOMEOSTASIS, A KEY STONE IN MYELINATED FIBER BIOLOGY

Organizer: Nicolas Tricaud Montpellier, France

10:00–10:30 **Bogdan Beirowski** Buffalo, USA
Upholding nerve integrity by metabolic signaling in Schwann cells S26-01

10:30–11:00 **Klaus-Armin Nave** Göttingen, Germany
Powering axons: novel functions of oligodendrocytes in energy metabolism S26-02

11:00–11:30 **Kim Do** Lausanne, Switzerland
Redox regulation and myelin in schizophrenia: a human and mice study S26-03

11:30–12:00 **Nicolas Tricaud** Montpellier, France
Challenging the lactate production and transport in Schwann cell myelinated fibers S26-04

Fintry Auditorium (Level 3)

10:00–12:00 Symposium S27

BRAIN LACTATE SHUTTLING: FROM PHYSIOLOGY TO THERAPY

Organizers: Anne-Karine Bouzier-Sore Bordeaux, France
Lorenz Hirt Lausanne, Switzerland

10:00–10:30 **Stefanie Schirmeier** Münster, Germany
The Drosophila glia-neuron lactate shuttle S27-01

10:30–11:00 **Jérôme Clasadonte** Lille, France
Connexin 43-mediated astroglial metabolic networks contribute to the regulation of the sleep-wake cycle S27-02

11:00–11:30 **Anne-Karine Bouzier-Sore** Bordeaux, France
Role of lactate in brain energy metabolism and neuroprotection S27-03

11:30–12:00 **Lorenz Hirt** Lausanne, Switzerland
Lactate as a neuroprotectant in cerebral ischemia S27-04

Kilsyth Room (Level 0)

10:00–12:00 Symposium S28

ROLE OF PERIPHERAL AND CENTRAL GLIA IN CHRONIC PAIN

Organizer: Julie Olson Minneapolis, USA

10:00–10:30 **Parisa Gazerani** Aalborg, Denmark
Communication between satellite glial cells and ganglion neurons in sensory ganglia under normal and pathological pain signaling S28-01

10:30–11:00 **Makoto Tsuda** Fukuoka, Japan
Purinergic stimulation of spinal microglia contributes to chronic pain S28-02

11:00–11:30 **Julie Olson** Minneapolis, USA
Deciphering glia- neuron interactions to develop new therapies for chronic pain S28-03

11:30–12:00 **Marzia Malcangio** London, UK
Neuroimmune communication in chemotherapy-induced neuropathic pain S28-04

Pentland Auditorium (Level 3)

10:00–12:00 Symposium S29

GLIA-IMMUNE CELL INTERACTION IN NEUROINFLAMMATORY DISEASES

Organizers: Ari Waisman Mainz, Germany
Francisco Quintana Boston, USA

10:00–10:30 **Ari Waisman** Mainz, Germany
Inflammatory cues in microglia repopulation and function S29-01

10:30–11:00 **Francisco Quintana** Boston, USA
Regulation of CNS inflammation by astrocytes S29-02

11:00–11:30 **Roland Liblau** Toulouse, France
Neurons cannot ignore T cells: therapeutic implications for inflammatory neurological diseases S29-03

11:30–12:00 **Burkhard Becher** Zürich, Switzerland
How cytokines can trigger neuroinflammation S29-04

Tinto + Moorfoot Room (Level 0)

10:00–12:00 Symposium S30

ASTROCYTE CONTRIBUTIONS TO NMDA RECEPTOR-DEPENDENT SYNAPTIC PLASTICITY AND LEARNING

Organizers: Christian Henneberger Bonn, Germany
Giovanni Marsicano Bordeaux, France

10:00–10:30 **Yuriy Pankratov** Coventry, UK
Synergistic action of glutamategic and purinergic gliotransmitters in the neocortex S30-01

10:30–11:00 **Philip Haydon** Boston, USA
Wakefulness dependent cholinergic modulation of astrocyte-derived D-serine and NMDA receptor function S30-02

11:00–11:30 **Giovanni Marsicano** Bordeaux, France
Astroglial CB1 receptors control object recognition memory via D-serine S30-03

11:30–12:00 **Christian Henneberger** Bonn, Germany
Endocannabinoids control NMDAR-dependent supra-linear dendritic integration via astroglial co-agonist supply S30-04

Strathblane Hall (Level 0)

12:00–12:45 **Lunch Break**

In order to allow a quick rebuilding of the auditoria in Level 3 for the following plenary lecture, we would like to ask all delegates to leave these rooms during the lunch break.

Pentland Suite (Level 3)

12:45–13:45 **Plenary Lecture P07**

Chair: Mikael Simons Munich, Germany

Dwight Bergles Baltimore, USA

***Sounds in silence:* how glial cells in the ear shape development of the auditory system**

Pentland Suite (Level 3)

13:45–14:00 **Closing Remarks**

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Poster Sessions

POSTER SESSION I
Saturday, July 8 **14:15–17:15**

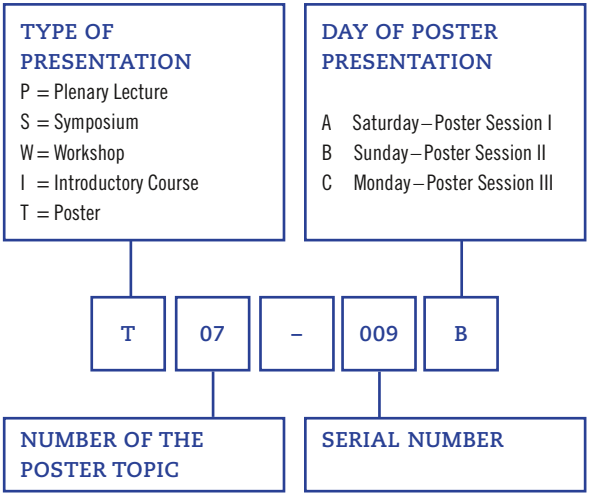
POSTER SESSION II
Sunday, July 9 **12:45–15:45**

POSTER SESSION III
Monday, July 10 **12:45–15:45**

EXPLANATION

There is one poster session per day: poster session I on Saturday, July 8, poster session II on Sunday, July 9 and poster session III on Monday, July 10. Posters with poster numbers ending with an A are displayed on Saturday (= poster session I), posters with a poster number ending with a B are displayed on Sunday (= poster session II), poster with a poster number ending with a C are displayed on Monday. So every poster will be discussed on one day.

Each poster session (180 min) is divided into two parts (each 90 min): uneven and even serial numbers. In the first part of a poster session posters with uneven serial numbers will be discussed (e.g. T12-03B). In the second 90 min of a session posters with even serial numbers will be discussed (e.g. T12-02B). Posters should be mounted on the day of presentation until 12:00 and are supposed to remain displayed until 18:00 on Saturday, July 8 (poster session I) and until 16:30 on Sunday, July 9 (poster session II) and on Monday, July 10 (poster Session III).



Division of Poster Sessions

POSTER SESSION I (SATURDAY, JULY 8)

POSTER SESSION II (SUNDAY, JULY 9)

POSTER SESSION III (MONDAY, JULY 10)

Posters

T01 CELL MIGRATION

T01-001A

In- and extrinsic factors of oligodendroglial migration

J. Ghelman, S. Albrecht, K. Hagemeier, T. Kuhlmann

T01-002A

Modulation of astroglial niche by stem cells for spinal cord regeneration

S. Erceg

T01-003A

Bilateral early activation of macroglial retinal cells in a mouse model of unilateral laser-induced experimental glaucoma

A.I. Ramírez, R. de Hoz, B. Rojas, J.J. Salazar, E. Salobrar-García, M. Vidal-Sanz, A. Triviño, J.M. Ramírez

T01-004A

3D printed substrates facilitate spatially controlled migration of Schwann cells and axons in dorsal root ganglion explant cultures

L. Alvey, K. Turner, J.F.X. Jones, M. Pickering

T01-005A

Ulcerative colitis induces the activation of microglia in the ventral mesencephalon along with dopaminergic neuronal death

R.M. de Pablos, A.M. Espinosa-Oliva, A. Boza-Serran, M. Sarmiento, R. Ruiz, M. Santiago, M.J. Oliva-Martín, M.A. Roca-Ceballos, S. Serres, V. Economopoulus, A.J. Herrera, N.R. Sibson, A. Machado, J.L. Venero

T01-006A

Tissue-type plasminogen activator influences oligodendrocyte migration during myelination and re-myelination

E. Maubert, C. Leonetti, R. Macrez, M. Pruvost, Y. Hommet, J. Bronsard, A. Fournier, M. Perrigault, I. Machín, D. Vivien, D. Clemente, F. de Castro, F. Docagne

T01-007A

Novel compounds targeting microglial nitric oxide release

P. Jordan, S.A. Wolf, E. Specker, M. Nazaré, H. Kettenmann

T01-008A

STAT3 controls the long-term survival and phenotype of repair Schwann cells during nerve regeneration

C. Benito, J.A. Gomez-Sanchez, C.M. Davis, D. Meijer, R. Mirsky, K.R. Jessen

T01-009A

Phosphoinositide 3-kinase χ mediates chemoattractant and adrenergic control of microglial migration

N. Schneble, C. Schmidt, J. Müller, S. Monajembashi, R. Wetzker, R. Bauer

T01-010A

Identification and isolation of dorsal Msx1+ neural stem cells in the adult spinal cord niche

C. Ripoll, H. Gazalah, N. Leventoux, P. Guigue, S. Azar, V. Rigau, C.-F. Calvo, J.-L. Thomas, Y. Lallemand, B. Robert, L. Bauchet, J.-P. Hugnot

T01-011A

Astrocyte heterogeneity across layers of the cerebral cortex

O. Bayraktar, D. Rowitch

T01-012A

Distinct cell states within the oligodendrocyte lineage in the mouse brain: insights from single-cell RNA-Seq

D. van Bruggen, S. Marques, S. Samudyata, A. Zeisel, G. Castelo-Branco

T01-013A

Monoamine processing in *Drosophila* astrocytes

S. Davla, D. Chitsaz, S. Li, D. van Meyel

T01-014A

Characterization of axonal-glial communication during development and its implications in glaucoma

W. Jia, R.T. Karadottir

T02 CELL PROLIFERATION, LINEAGES AND DIFFERENTIATION

T02-001A
The neurogenic potential of neocortical astrocytes following chronic brain injury and stroke
M. Zamboni

T02-002A
Regulatory T cells enhance oligodendrocyte differentiation
M. Dittmer, T. O'hagan, G. Eleftheriadis, S. Fleville, J. Falconer, P. Bankhead, R. Medina, Y. Dombrowski, D.C. Fitzgerald

T02-003A
***Foxg1* expression levels in NSCs modulate astrogenesis rates**
C. Falcone, C. Grudina, S. Pluchino, A. Mallamaci

T02-004A
Decrease in newly generated oligodendrocytes leads to changed myelin structures and motor dysfunctions that are rescued by transplanted cells
S. Jäkel, A. Gruart, S. Grade, Y. Zhang, S. Kröger, F. Kirchhoff, G. Eichele, J.M. Delgado Garcia, L. Dimou

T02-005A
Multipotency of NG2 cells after cerebral ischemia: new elements of reactive gliosis
M. Valny, P. Honsa, E. Waloschkova, H. Matuskova, L. Valihrach, M. Anderova

T02-006A
Schwann cells demonstrated lineage plasticity in culture and acquired oligodendrocyte phenotypes
Y.-P. Tsui, K.L.K. Wu, Y.-S. Chan, D.K.Y. Shum

T02-007A
Boundary cap cells: a source of mural cells for the developing peripheral vasculature
P. Topilko, F. Coulpier, G. Gerschenfeld, A. Gresset, I. Brunet, P. Charnay

T02-008A
A web tool for the oligodendrocyte differentiation data and network analysis
M. Cantone, M. Eberhardt, M. Küspert, S. Reiprich, M. Wegner, J. Vera

T02-009A

Self-renewal accounts for microglial repopulation after depletion in vitro

H. Sakuma

T02-010A This poster has been withdrawn.

T02-011A

Transcriptomic characterization of astrocyte differentiation and maturation to identify potential mechanisms restricting the neurogenic potential of mature astrocytes

M. Lattke, S. Vaga, F. Guillemot

T02-012A

Proliferation and differentiation of NG2-glia following different types of brain disorders

D. Kirdajova, P. Honsa, H. Pivonkova, H. Matuskova, D. Kolenicova, M. Anderova, M. Anderova

T02-013A

Fate-mapping study of NG2 glia in the spinal cord and early embryonic brain

W. Huang, X. Bai, L. Schlosser, B. Catalin, L. Politti Cartarozzi, A. Scheller, F. Kirchhoff

T02-014A

Self-renewal and differentiation potential of reactive astrocytes *in vivo*

L. Canhos, S. Falk, S. Sirko, M. Götz

T02-015A

Modelling white matter diseases with induced oligodendrocyte precursor cells

M.K. Abdul Karim, M. Pawlowski, D. Ortmann, A. Bertero

T02-016A

Differentiation of human astrocyte cell lines to model fragile X syndrome

U.-K. Peteri, L. Roybon, M. Castrén

T02-017A

An automated chemical screening pipeline for drug discovery in zebrafish

K. Cole, J. Early, D. Lyons

T02-018A

Automated screening to identify chemical modulators of myelination using zebrafish

J. Early, K. Cole, D. Lyons

T02-019A

Satellite glial cells derived from dorsal root ganglia – candidates for cell transplantation?

W. Tongtako, A. Lehmbecker, D. Eikelberg, C. Puff, W. Baumgärtner, I. Gerhauser

T02-020A

Tns3, a new marker of immature oligodendrocytes during (re)myelination, is absolutely required for oligodendrocyte differentiation

C. Parras, H. Hmidan

T02-021A

Role of microRNAs miR-124 and miR-125b in directing neuronal reprogramming of astrocytes *in vitro*

E. Papadimitriou, A. Lamprou, A.-M. Driva, P.N. Koutsoudaki, D. Thomaidou

T02-022A

Endothelin-1 signaling in the postnatal subventricular zone regulates oligodendrocyte progenitor cell proliferation and maturation

K. Adams, V. Gallo

T02-023A

Differentiation of functional astrocytes from mouse embryonic stem cells (mESC)

D.S. Juneja, S.J. Nasuto, E. Delivopoulos

T02-024A

Oligodendrocyte precursor cells generated from induced pluripotent stem cells derived neural progenitors

N. Gunhanlar

T02-025A

Oxidative stress in differentiating oligodendroglia vulnerable to secondary degeneration following neurotrauma

M. Fitzgerald, C. Bartlett, M. Kilburn, M. Giacci

T02-026A

Multicolor clonal analysis to study astrocyte network development in the mouse cerebral cortex

S. Clavreul, L. Abdeladim, E. Hernandez, S.-H. Ieng, J. Durand, R. Barry, R. Benosman, G. Bonvento, E. Beaurepaire, J. Livet, K. Loulier

T02-027A

Small molecule mediated differentiation of human iPSC derived neural stem cells towards low and high GFAP expressing subtypes of astrocytes

P. Garg, K. Nieweg

T02-028A

K_{2P} channels: novel regulators of oligodendroglial cell functions

S. Albrecht, S. Korr, L. Nowack, V. Narayanan, F. Stortz, M. Araúzo-Bravo, S.G. Meuth, P. Ehling, T. Kuhlmann

T02-029A

Astroglial heterogeneity in the cerebellum results from distinct embryonic and postnatal progenitors with different proliferative behaviors

V. Cerrato, E. Parmigiani, M. Figueres-Oñate, J. Aprato, C. De'sperati, L. Lopez-Mascaraque, A. Buffo

T02-030A

Cellular and molecular analysis of region-specific differences of NG2-glia in the adult mouse brain

N. Unger, N. Kannaiyan, I. Fornè, M. Rossner, A. Imhof, L. Dimou

T02-031A

The study of populations of glial cells present in the central canal lining of rat spinal cord during the postnatal development

A. Alexovič Matiašová, J. Ševc, Z. Daxnerová

T02-032A

Tissue interactions regulating the initiation of gliogenesis in Xenopus

A. Sater, C. Ulrich

T02-033A

Abnormal oligodendrocyte maturation and myelination in a mouse model of Timothy syndrome

V. Cheli, T. Lama, D. Santiago González, V. Spreuer, R. Rasmusson, G. Bett, P. Paez

T02-034A

Systematic demonstration of oligodendrocyte precursor cells functional heterogeneity depending on the animal species and age: a proof of concept for further (re)myelinating therapies for multiple sclerosis

A. Bribian, E. Medina-Rodriguez, I. Garcia-Alvarez, S. Nocera, I. Machín, P.F. Esteban, V. Murcia-Belmonte, L. Vega-Zelaya, J. Pastor, L. Garrido, F. de Castro

T02-035A

Contorted radial glia in the telencephalon of fish

A. Mack, U. Mattheus, P. Neckel

T02-036A

Does modulation of SIRPa in macrophages affect survival, proliferation, migration, and differentiation of oligodendrocyte lineage cells?

C. Wang, Y.A. Syed, S. Rotshenker, M.R.N. Kotter

T02-037A

Clonal expansion of oligodendroglia from single progenitors

M. Figueres-Oñate, N. Salvador, M. Sánchez-Villalón, L. López-Mascaraque

T02-038A

Deletion of the GFAP-cre derived TCTP leads to defects in astrogenesis and behavior in mice

S.-H. Chen

T03 CELL SIGNALLING

T03-001B

Functional interaction between RGS4 and mGluR5 in astrocytes: potential implication in neuropathic pain

P. Doyen, M. Vergouts, E. Hermans

T03-002B

Dysfunction in motility and apoptotic cell recognition leads to the impairment of microglial phagocytosis in epilepsy

I. Díaz-Aparicio, O. Abiega, S. Beccari, A. Nadjar, S. Layé, Q. Leyrolle, M. Domercq, A. Pérez-Samartín, V. Sánchez-Zafra, I. Paris, J. Valero, J.C. Savage, C.W. Hui, M.-È. Tremblay, M.D.M. Vivanco, C. Matute, M. Maletic-Savatic, J.M. Encinas, A. Sierra

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T03-003B

Class IIa histone deacetylases link cAMP signaling to the myelin transcriptional program of Schwann cells

S. Velasco-Aviles, C. Gomis-Coloma, J.A. Gomez-Sanchez, A. Casillas, H. Cabedo

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T03-004B

miRNA profiling of exosomes from trigeminal satellite glial cells

M. Duroux, H. Vinterhøj, P. Gazerani

T03-005B

The Wnt/β-catenin signaling pathway alters the differentiation potential of neonatal and adult neural stem/progenitor cells *in vitro*

J. Kriska, T. Knotek, L. Janeckova, O. Butenko, D. Kolenicova, D. Dzamba, P. Honsa, Z. Nahacka, L. Andera, V. Korinek, M. Anderova

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T03-006B

Recording and analysis of multi-modal brain signals in awake mice

G. Stopper, M. Schweigmann, L. Schlosser, A. Scheller, K. Koch, F. Kirchhoff

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T03-007B

Changes in the OPC oligodendrocyte progenitor cell proteome with ageing

A. Guzman de la Fuente, R.M. Queiroz, G. Dangelo, W. Yu, R. Chaerkady, C.A. Jones, R.J.M. Franklin

T03-008B

Characterisation of chimeric optogenetic α_1 adrenoceptors for investigating astrocytic calcium signalling

L. Humphrys, T. Bellamy, N. Holliday

T03-009B

Protein Tyrosine Phosphatase Alpha (PTPα) is required for laminin-inducedsignaling during oligodendrocyte differentiation

P. Ly, C. Stewart, C. Pallen

T03-010B

Biphalin, a dimeric enkephalin, alleviates LPS-induced activation in rat primary microglial cultures in opioid receptor-dependent and -independent manners

K. Popiołek-Barczyk, A. Piotrowska, W. Makuch, J. Mika

T03-011B

Differences between cortical and spinal cord astrocytes in the induction of reactive gliosis

R. Hareeri, G. Hathway, T. Bellamy

T03-012B

Screening for new regulators of microglia development by CRISPRing zebrafish

L. Kuil, N. Oosterhof, H. van der Linde, T. van Ham

T03-013B

The anatomy of astrocytic vesicles containing gliotransmitters

J. Jorgacevski, M. Kreft, C. Geisler, M. Potokar, P. Singh, A. Gucek, A. Egner, R. Zorec

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T03-014B

Adrenergic activation attenuates astrocyte swelling: a new strategy for the treatment of cytotoxic edema

N. Vardjan, A. Horvat, J.E. Anderson, D. Yu, D. Croom, X. Zeng, M. Kreft, Y.D. Teng, S.A. Kirov, R. Zorec

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T03-015B

Role of serotonergic signaling in regulation of astrocytes morphology

F.E. Müller, V. Cherkas, E. Ponimaskin, A. Zeug

T03-016B

Panglial gap-junctional coupling mediates calcium signaling between olfactory bulb astrocytes and olfactory ensheathing cells

A. Beiersdorfer, C. Lohr

T03-017B

Gap junctions are required for glia-glia communication, calcium signaling and survival in *Drosophila* peripheral nervous system (PNS)

M. Das, V. Auld

T03-018B This poster has been withdrawn.

T03-019B

The impact of astrocytes morphology on Ca^{2+} dynamics

A. Zeug, F.E. Müller, V. Cherkas, E. Ponimaskin

T03-020B

The JAK2-STAT3 pathway is necessary and sufficient to induce reactivity in astrocytes

L. Ben Haim, K. Ceyzériat, M.-A. Carrillo-de Sauvage, L. Abjean, F. Petit, M. Guillermier, C. Derbois, M.A. Palomares, M.-C. Gaillard, N. Dufour, F. Aubry, P. Gipstein, A. Bémelmans, G. Bonvento, M. Dhenain, R. Olaso, J.F. Deleuze, P. Hantraye, E. Brouillet, C. Escartin

T03-021B

Characterization of calcium signals from intensity based fluorescence indicators

V. Cherkas, F.E. Müller, E. Ponimaskin, A. Zeug

T03-022B

Different intracellular signallings regulate Schwann cell development, maturation and plasticity: role of SRC and phospho-FAK pathways

A. Colciago, V. Bonalume, M. Ballabio, L. Caffino, L.F. Castelnovo, D. Colleoni, F. Fumagalli, S. Melfi, V. Magnaghi

T03-023B

Distinct UPR profiles during maturation of glial and neuronal progenitors of the cerebellum

M. Naughton, J. McMahon, U. FitzGerald

T03-024B

The lactate receptor HCAR1 promotes neuronal development and protects axons and myelin during hypoglycemia

L.H. Kennedy, K.A. Andersson, Ø.P. Haugen, M.A. Puchades, J. Storm-Mathisen, C. Morland, L.H. Bergersen, J.E. Rinholm

T03-025B

Reactive astrocytes from the spinal cord of mSOD1 mice pups trigger microglia M1 polarization, while switch mSOD1 microglia into M1/M2 phenotypes that lately become irresponsive

A.R. Vaz, C. Cunha, C. Gomes, D. Brites

T04 CYTOSKELETON

T04-001A

Expression of the O-linked N-Acetylglucosamine containing epitope H (O-GlcNAcH) in lamb glial cells in vitro and in vivo

D. Arvanitis, Y. Drosos, A. Zibis, S. Havaki, L. Arvanitis

T04-002A

Identification of actomyosin-based biomarkers relevant for microglia activation

A. Cruz, S. Domingues, A.F. Maia, J.B. Relvas, I.M. Pinto

T04-003A

From stars to scars: drebrin coordinates actin dynamics in astrocytes specifically during traumatic brain injury

K. Murk, J. Ledderose, J. Schwieck, B. Eickholt

T04-004A

Cytosolic cathepsin D regulates actin cytoskeleton dynamics during microglial migration

L. Yijun, J. Yang, T. Zhang, D. Duan, Y. Hu, Z. Guo, H. Lou, M.S. Ho, S. Duan

T04-005A

Phospholipid re-localization induces microglial ramification

K. Tokizane, H. Konishi, K. Makide, H. Kawana, S. Nakamuta, K. Kaibuchi, T. Ohwada, J. Aoki, H. Kiyama

T04-006A

Iba-1 silencing in BV2 microglia cell line interferes with phagocytosis and cell migration

R.-O. Gheorghe, A. Filippi, A.F. Deftu, G. Chiritoiu, A. Tuchilus, V. Ristoiu

T04-007A

The actin nucleator Jmy is a novel regulator of oligodendrocyte morphology and myelin sheath formation

M.M. Azevedo, F.P. Cordelières, P. Sampaio, A.I. Seixas, J.B. Relvas

T04-008A
The role(s) of Rnd2, an atypical Rho GTPase, in nervous system myelination
A.I. Seixas, M.M. Azevedo, J.B. Relvas

T05 DEGENERATIVE DISEASE, TOXICITY AND NEUROPROTECTION

T05-001C
Microglial response modulation through the inhibition of colony-stimulating factor 1 receptor (CSF-1R) to promote remyelination and neuroprotection
V.S.B. Wies Mancini, J.M. Pasquini, J.D. Correale, L.A. Pasquini

T05-002C
Mitochondrial function in Pink1 deficient astrocytes
P. Dirscherl, M. Jastroch, D. Vogt-Weisenhorn, W. Wurst

T05-003C This poster has been withdrawn.

T05-004C
Changes in phagocytosis and potassium channel activity in microglia of 5xFAD mice indicate alterations in purinergic signaling in Alzheimer's disease
S. Wendt, M. Maricos, N. Vana, N. Meyer, D. Güneykaya, M. Semtner, H. Kettenmann

T05-005C
Chronic inhibition of P2Y1-receptor signalling reduces astrocytic hyperactivity in vivo and improves cognitive outcome in an Alzheimer's disease mouse model
N. Reichenbach, A. Delekate, S. Poll, K. Keppler, B. Breithausen, A. Keller, M. Fuhrmann, C. Henneberger, G.C. Petzold

T05-006C
Age-associated changes of Scavenger-A in the pathophysiology of Alzheimer's disease and neurodegeneration
R. von Bernhardi, F. Cornejo, F. Heredia, P. Munoz, J. Poblete

T05-007C
Effect of an α-MSH analogue against oxidative damage induced by saturated fatty acid *in vitro* and *in vivo*
D. Ramirez, J. Saba, J. Turati, L. Carniglia, D. Durand, C. Caruso, M. Lasaga

T05-008C

Alzheimer amyloid-beta transcytosis by astrocytes

M. Domínguez-Prieto, A. Velasco, A. Tabernero, J.M. Medina

T05-009C

The astrocytic S100B with its receptor RAGE is aberrantly expressed in SOD1-G93A ALS models and its inhibition decreases the expression of pro-inflammatory genes

A. Serrano, C. Donno, S. Giannetti, M. Peric, S. Stamenkovic, P. Andjus, N. Dambrosi, F. Michetti

T05-010C

Protective effect of N-Arachidonylglycine-GPR18 signalling after excitotoxic neuronal lesion

U. Grabiec, T. Hohmann, A. Klemenz, C. Ghadban, C. Rothgänger, K. Mackie, F. Dehghani

T05-011C

Effect of the anti-inflammatory neuropeptide cortistatin on the pathology of Huntington's disease

N. Adán, M. Cherubini, L. de Lecea, S. Gines, E. González-Rey

T05-012C

Connexin 43 affects disease progression and motor neuron toxicity in amyotrophic lateral sclerosis

A. Almad, C. Welsh, Y. Huo, J.-P. Richard, A. Patankar, S. Gross, N. Maragakis

T05-013C

Microglial phagocytosis of apoptotic cells is impaired by genetic cystatin B deficiency, a mouse model of progressive myoclonus epilepsy (Unverricht-Lundborg disease)

V. Sierra-Torre, A. Plaza-Zabala, O. Abiega, V. Sánchez-Zafra, J. Valero, I. Díaz-Aparicio, I. Körber, A.-E. Lehesjoki, A. Sierra

T05-014C

Impaired glial metabolism in R6/2 mouse model of Huntington's disease

J. Andersen, N. Skotte, A. Nørremølle, H.S. Waagepetersen

T05-015C

Targeted expression of disease-associated polyglutamine proteins in glia impairs blood-brain barrier in Drosophila

P.-A. Yeh, W.-C. Chu, J.-Y. Liu, Y.H. Sun

T05-016C

Astrocyte reactivity impacts mHtt aggregation in mouse models of Huntington's disease

L. Abjean, L. Ben Haim, M.-A. Carrillo-de Sauvage, M.-C. Gaillard, A.-S. Hérard, F. Petit, P. Gipstein, M. Guillermier, S. Bernier, N. Dufour, A. Bémelmans, G. Bonvento, P. Hantraye, E. Brouillet, C. Escartin

T05-017C

Glial HO-1: a driver of Parkinson-like neurodegeneration in aging mice

M. Cressatti, W. Song, A. Liberman, C. Galindez, H. Schipper

T05-018C

Breaking Bad: the role of microglia in retinal degeneration and neuroprotection

S. Roche, A. Wyse-Jackson, T. Cotter

T05-019C

Dynamic changes in microglia in a *Cx3cr1* driven *Ercc1* knockout mouse model

X. Zhang, S. Kooistra, H. van Weering, E. Wesseling, E. Boddeke, B. Eggen

T05-020C

The Aβ protofibril selective antibody mAb158 prevents accumulation of Aβ in astrocytes and rescues neurons from Aβ induced apoptosis

E. Nikitidou, S. Söllvander, M. Zyśk, L. Söderberg, D. Sehlin, L. Lannfelt, A. Erlandsson

T05-021C

Astrocyte volume regulation during the progression of Alzheimer's disease

D. Kolenicova, B. Eliasova, D. Kirdajova, J. Kriska, M. Valny, P. Honsa, L. Valihrach, M. Kubista, M. Anderova

T05-022C

Hallmarks of Alzheimer's disease in stem cell-derived human neurons transplanted into mouse brain

A. Arranz, I. Espuny-Camacho, M. Fiers, A. Snellinx, K. Ando, S. Munck, N. Corthout, E. Radaelli, K. Leroy, J.P. Brion, P. Vanderhaeghen, B. de Strooper

T05-023C

Pharmacological inhibition of PDGF-R and CSF-1R in Schwann cells and macrophages prevents muscle denervation and sciatic nerve pathology in an inherited model of ALS

E. Trias, S. Ibarburu, R. Barreto-Nùñez, O. Hermine, J. Beckman, L. Barbeito

T05-024C

Exploring the role of astrocytic Ca^{2+} signaling in Alzheimer's disease

A. Lia, G. Losi, M. Zonta, G. Carmignoto, C. Fasolato

T05-025C

Cell autonomous and non-cell autonomous mechanisms of disease in VCP-related ALS

G. Tyzack, C. Hall, Z. Yao, A. Lakatos, S. Gandhi, R. Patani

T05-026C

Alterations in glutamate transporter GLT-1 homeostasis in Lafora disease

C. Muñoz-Ballester, E. Pérez-Jiménez, R. Viana, P. Sanz

T05-027C

Age-related changes in astrocyte swelling and their volume regulation

J. Tureckova, D. Kolenicova, B. Eliasova, M. Valny, P. Honsa, J. Kriska, L. Valihrach, M. Kubista, M. Anderova

T05-028C

NADPH-oxidase of mononuclear phagocytes mediates neurodegeneration after repeated systemic challenge with lipopolysaccharides

A. Shahraz, M. Mathews, P. Kruse, H. Neumann

T05-029C

Glial activation and its mechanisms of control in the MPTP mouse model of Parkinson's disease

N. Rabaneda-Lombarte, J. Serratosa, J. Bové, M. Vila, J. Saura, C. Solà

T05-030C

Reduced insulin signalling in *Drosophila* glia reduces ageing phenotypes and extends lifespan

N. Woodling, A. Rajasingam, A. Tillmann, L. Partridge

T05-031C

The antibacterial drug Rifampicin prevents α-Synuclein-mediated microglial cell activation

R. Raisman-Vozari, L. Acuña, S. Hamada, N. Corbalán, F. González, J. Rocca, R.N. Chehín, D. Papy, J. Sepúlveda Diaz, P.P. Michel

T05-032C

Low levels of sialic acids induce early neurodegeneration in aging mice

C. Schuy, D. Gerard, L. Sinkkonen, J.N. Hansen, A. Halle, V.S. Gnanapragassam, R. Horstkorte, H. Neumann, B. Linnartz-Gerlach

T05-033C

Microglia exacerbates amyloid-induced synaptic dysfunction in Alzheimer's disease

E. Capetillo-Zarate, J. Zuazo, C. Ortiz-Sanz, E. Alberdi, C. Matute

T05-034C This poster has been withdrawn.

T05-035C

Loss of *Crif1* triggers Parkinsonian abnormalities via reactive glial interaction in mice

H. Jun Young, R. Min Jeong, H. Jeong Su, J. Yun Seon, K. Soo Jeong, L. Min Jeong, R. Il Whan, J. Xianshu, C. Song Yi, C. Woosuk, K. Gi Ryang

T05-036C

Incretin hormones regulate microglial oxidative stress, survival and expression of trophic factors

A. Klegeris, L. Spielman, D. Gibson

T05-037C

Progranulin protects against exaggerated axonal injury and astrogliosis following traumatic brain injury in mice

M. Schaefer, L. Menzel, C. Friedrich, R. Hummel, L. Dangel, J. Winter, K. Schmitz, I. Tegeder

T05-038C

Altered expression of the GPR17 receptor in the spinal cord of SOD1G93A mice, a model of amyotrophic lateral sclerosis

M. Fumagalli, E. Bonfanti, T. Bonifacino, M. Milanese, G. Bonanno, M.P. Abbracchio

T05-039C

Involvement of caspase-8 in microglial activation mediated by B-amyloid

A.M. Espinosa-Oliva, E. González-Miranda, K. Tayara, R. Hornedo-Ortega, A.J. Herrera, R.M. de Pablos, J.L. Venero

T05-040C

Astrocytic connexin 30 deletion leads to hypersensitivity in a MPTP mouse model of Parkinson's disease

A. Fujita, H. Yamaguchi, Y. Matsuoka, K.-I. Yamada, R. Yamasaki, J.-I. Kira

T05-041C

Astrocytic expression of the chemokine receptor CXCR7/ACKR3 in the diseased CNS

J. Engele, F. Pelkner, G. Stein, D.N. Angelov, J. Boltze, D.-C. Wagner, F. Odoardi, A. Flügel, M. Puchert

T05-042C

Astrocytic hyperactivity in Alzheimer's disease

N. Blank, A. Delekate, G.C. Petzold

T05-043C

Establishment of human induced pluripotent stem cell derived astrocytes for modelling human prion disease *in vitro*

J. Alibhai, Z. Krejciova, J. Ironside, J. Manson, S. Chandran, M. Head

T05-044C

Astrocyte senescence in mice is mediated by transforming growth factor beta 1

S. Amram, D. Frenkel

T05-045C

Long-living immunodeficient hSOD1 mice as an animal model of neurodegenerative diseases

L. Stanaszek, M. Majchrzak, P. Walczak, M. Janowski, B. Lukomska

T05-046C

Investigation of glutamate mediated excitotoxicity by use of inducible astrocyte reporter mice during experimental autoimmune encephalomyelitis

K. Rosiewicz, T. Crowley, A. Margineanu, M. Alisch, J. Kerkering, V. Siffrin

T05-047C

The effects of S1P receptor modulation in an animal model of Krabbes disease

S. Fagan, S. Bechet, J. Yssel, S. O'Sullivan, K. Dev

T05-048C

The circulating microRNAs in MS pathology: from biomarkers to role in immunity and oligodendrocyte differentiation

L. D'Auria, H.A. Dang, V. van Pesch

T05-049C This poster has been withdrawn.

T05-050C This poster has been withdrawn.

T05-051C

Protecting the nervous system by protecting the vulnerable lysosomes: identification of a new glia-derived mechanism for preserving lysosomal functional integrity upon oxidative stress

R. Pascua-Maestro, S. Diez-Hermano, C. Lillo, M.D. Ganfornina, D. Sanchez

T05-052C

Human anti-RGMa monoclonal antibody promotes axon regeneration, neuroprotection and remyelination

Y. Cui, C. Klein, A.L. Relo, L. Huang, R. Müller, B.K. Müller

T05-053C

Effect of physical exercise and anti-oxidant treatment on dopaminergic neuronal death in MPTP-treated mice

A.-L. Gil-Martínez, L. Cuenca Bermejo, C. Estrada Esteban, E. Fernández Villalba, M.T. Herrero Ezquerro

T05-054C

NAC prevents both dopaminergic cells death and inflammation in old-parkinsonian mice

L. Cuenca Bermejo, A.L. Gil Martínez, C. Estrada Esteban, E. Fernández Villalba, M.T. Herrero Ezquerro

T05-055C

In vivo imaging of reactive astrocytes in the injured adult mouse cerebral cortex

P. d'Errico, E. Hudry, S. Waldkirch, S. Hopp, T. Blank, B.T. Hyman, M. Meyer-Luehmann

T05-056C

Activation of a GABA transporter on spinal astrocytes causes enhanced glutamate release in a mouse model of amyotrophic lateral sclerosis

G. Bonanno

T05-057C

Exploring the effects of IGF-1 gene therapy to modulate neuroinflammation

E. Falomir Lockhart, F.J.C. Dolcetti, S. Anesetti Nelli, C.B. Herenu, M.J. Bellini

T05-058C

miRNA profile and expression analysis of Müller cells from the diabetic retina implicates a possible role of PDGF-mediated signaling in retinal glia for disease progression

A. Pfaller, F. Grassmann, A. Hauser, T. Pannicke, S.M. Hauck, N. Klöting, B. Weber, A. Grosche

T05-059C This poster has been withdrawn.

T05-060C

Promising role for Galectin 1 in Alzheimer' disease: reduced microglial activation and lower amyloid deposition in the hippocampus together with cognitive improvement after treatment in a transgenic mouse model

F. Saravia, C. Pomilio, A. Vinuesa, M. Bentivegna, J. Presa, R. Morales, G. Rabinovich, J. Beauquis

T05-061C This poster has been withdrawn.

T05-062C

Heparanase protects against axonal degeneration in the sciatic nerve and promotes neurite outgrowth *in vitro*

M. Whitehead, H.J. Willison, S.C. Barnett

T05-063C

Involvement of the purinergic P2X4 receptor in Alzheimer's disease

J. Hua, F. Rassendren, L. Ulmann

T05-064C

Peripheral administration of lactate produces antidepressant-like effects

A. Carrard, M. Elsayed, M. Margineanu, B. Boury-Jamot, E. Meylan, J.-M. Petit, H. Fiumelli, P.J. Magistretti, J.-L. Martin

T05-065C

Amyloid beta oligomers modulate oligodendrocyte function: relevance to myelin pathology in Alzheimer´s disease

T. Quintela-López, A. Wyssenbach, A. Pérez-Samartín, C. Matute, E. Alberdi

T05-066C

Metabolic challenge induces glial c-Fos expression in acute mouse brain slices: a novel *in vitro* model for studying neurodegeneration and neuroprotection

J. Herédi, A. Magyariné Berkó, Á. Kurilla, D. Mezei, Z. Kis, L. Vécsei, J. Toldi, L. Gellért

T05-067C

In vitro model for studying the non-autonomous degeneration of neurons containing hyperphosphorylated tau: relevance to Alzheimer's disease

A.V. Jaisimha, C.J. McCarthy, K. Phelan, B. Boland

T05-068C

Role of glial cells in an *in vitro* model of Alzheimer´s disease that combines βA and Tau pathology

E. Luengo, I. Buendia, C. Fernández-Mendívil, P. Michalska, J. Garrosa, R. León, M.G. López

T05-069C

APP_{SWE}/PS1A246E astroglioma cells show mitochondrial dysfunction, calcium dyshomeostasis and higher vulnerability to ischemia

M.D. Martin-de-Saavedra, E. Navarro, B. Izaskun, P. Hernansanz-Agustín, A. Martinez-Ruiz, R. León, R. Martinez, M. Duchen, M.G. López

T05-070C

MMP3 as a criticial early mediator of retinal inflammation following optic nerve injury

E. Lefevere, M. Salinas-Navarro, L. Andries, E. Geeraerts, I. van Hove, L. de Groef, L. Moons

T05-071C

CSF-cNs of murine spinal cord react to the I.P. administration of MPTP in subacute model of Parkinson's disease by their redistribution around the central canal and Lamina X

Z. Gombalová, T. Giallongo, S. Carelli, J. Sevc, A. Alexovič Matiašová, Z. Daxnerová, A. Gorio

T05-072C

Intrastriatal administration of sulfite induces myelin alterations, glial reactivity and neuronal damage in rats

M. Grings, B. Parmeggiani, A.P. Moura, J.T. Pletsch, G.M. Cardoso, A.T. Wyse, M. Wajner, G. Leipnitz

T05-073C

Novel generation of Nrf2 inducers for the treatment of multiple sclerosis

P. Michalska, I. Buendia, J.Á. Morales, A. Pérez-Castillo, E. Luengo, A. Cuadrado, M. Soares, M. García-López, R. León

T05-074C

Stereological estimation of microglial and neuronal cell numbers in Alzheimer's disease and control brains

B. Finsen, A.E. Larsen, A.A. Babcock, S. Darvesh

T05-075C This poster has been withdrawn.

T05-076C

Resolving white matter dysfunction in Alzheimer's disease

B. Varga, D. Kronenberg-Versteeg, M. Horrocks, J. Wong, K.A. Evans, S. Hunter, C. Brayne, G.C. Brown, M. Coleman, E. Hall, S. Lee, M. Spillantini, R.T. Káradóttir

T05-077C

Healthy dopaminergic neurons display neurodegenerative signs and alpha-synuclein accumulation when co-cultured with Parkinson's disease astrocytes

A. di Domenico, G. Carola, A. Faella, Y. Richaud-Patin, J.P. Munoz, J. Soriano, E. Tolosa, A. Zorzano, A.M. Cuervo, A. Raya, A. Consiglio

T06 (ENERGY) METABOLISM

T06-001B

Sustained neuronal activity regulates transcription in astrocytes to control their metabolic function

Z. Jiwaji, P. Hasel, O. Dando, P.S. Baxter, A.C. Todd, S. Chandran, G.E. Hardingham

T06-002B

Direct modulation of the astrocytes in ventromedial hypothalamus regulate the bone metabolism

J. Shao, Y. Liu, N. Hu, D. Gao, L. Zhang, J. Tu, X. Zhang, F. Yang

T06-003B

Metabolic heterogeneity of astrocytes

J. Hirrlinger, S. Köhler, U. Winkler

T06-004B

High fat diet induces mitochondria stress and impairs myelin structure in rat hypothalamus

H.-T. Huang, H.-H. Hsien, H.-T. Wu, S.-F. Tsai, H.-Y. Huang, Y.-M. Kuo, P.-S. Chen, C.-S. Yang, S.-F. Tzeng

T06-005B

Astrocytes as drivers of Lafora progressive myoclonus epilepsy

C. Rubio-Villena, M.A. Garcia-Gimeno, M. Heredia, J. Bonet, P. Sanz

T06-006B

Acute inhibition of astrocytic O_2 consumption by neurons

I. Fernandez Moncada, I. Ruminot, D. Robles-Maldonado, K. Alegría, J.W. Deitmer, L.F. Barros

T06-007B

Real-time activity-dependent astrocyte-to-neuron lactate shuttling

F. Baeza-Lehnert, R. Gutierrez, L.F. Barros

T06-008B

The NBCe1 pathway mediates fast neurometabolic coupling in mouse organotypic hippocampal slices

I. Ruminot, J. Schmälzle, B. Leyton, L.F. Barros, J.W. Deitmer

T06-009B

Regulation of the Drosophila trehalose transporter Tret1-1

H. Hertenstein, A. Volkenhoff, C. Klämbt, S. Schirmeier

T06-010B

Mitochondrial trafficking and function in cortical astrocytes

J.B. Kacerovsky, K.K. Murai

T06-011B

Regulation of metabolic pathways in astrocytes by mitochondrial ROS

C. Vicente-Gutiérrez, N. Bonora, J.P. Bolaños

T06-012B

Metabolic reprogramming in pro- and anti-inflammatory microglia

I. Geric, S. Schoors, P. Carmeliet, M. Baes

T06-013B

Bioinformatic analysis of *in vivo* and *in vitro* transcriptome datasets demonstrate a distinctive mitochondrial functional signature in astrocytes

A. Eraso-Pichot, M. Brasó-Vives, A. Golbano, E. Galea, R. Masgrau

T06-014B

Production of FGF21 by hypothalamic tanycytes is modulated under fasting conditions by palmitate via a p38 MAPK signaling pathway

S. Geller, L. Pellerin

T06-015B

Glutamate reduces the cell-to-cell variability in energy metabolism in astrocytes

G. Azarias, H. de Castro Abrantes, J.-Y. Chatton, B. Weber

T06-016B

Oligodendrocyte mitochondria are regulated by netrin-1

D. Nakamura, D. Khan, J. Antel, T. Kennedy

T06-017B

Activity-induced lactate increase in myelinated axons

A.S. Saab, Z.J. Looser, M.J.P. Barrett, M.J. Stobart, L.F. Barros, J. Hirrlinger, K.-A. Nave, B. Weber

T06-018B

ROS signalling promotes the differentiation of oligodendrocyte precursors into mature oligodendrocytes

J. Tavares, A. Amaral, S. Abdulla, M. Kotter

T06-019B

Lack of PTG involvement in glycogen regulation during sleep deprivation in mice

J.-M. Petit, S. Burlet-Godinot, J.T. Chung, G. Grenningloh, I. Allaman, E. Ruchti, P.J. Roach, A.A. Depaoli-Roach, P.J. Magistretti

T06-020B

The impact of astrocytic glycogen storage and gap junction coupling on neuronal function and energy metabolism

L. Hösli, A.S. Saab, M. Zuend, Z.J. Looser, M.J. Stobart, J. Duran, J.J. Guinovart, J. Hirrlinger, C. Giaume, B. Weber

T06-021B

Astrocytic UCP2 is required for hypothalamic response to metabolic challenges

C. García Cáceres, O. Lê Thuc, B. Legutko, T. Gruber, M. Jastroch, L. Varela, S. Diano, T. Horvath, M.H. Tschöp

T06-022B

Hypothalamic astrocyte activity state determines systemic glucose metabolism in mice

O. Lê Thuc, B. Legutko, T. Gruber, D. Li, S. Luquet, M.H. Tschöp, C. García-Cáceres

T06-023B

Astrocytic leptin and insulin signals interact to maintain systemic metabolic homeostasis

B. Legutko, T. Gruber, C. García Cáceres, O. Lê Thuc, T. Horvath, M.H. Tschöp

T06-024B

Lipid storage and microglial inflammation

M. Churchward, K. Todd

T06-025B

Pentose pathway activation in *M. leprae*-infected Schwann cells leads to mitochondrial dysfunction and nerve damage

B.S. Mietto, K.G.C. Vasconcellos, R.C.A. Medeiros, T.G.T. Pinto, L.S. Gomes, L.S. Rodrigues, M. Gandini, S.L.G. Antunes, P.S. Rosa, M.C.V. Pessolani, E.N. Sarno, R.L.B. Silva, M. Sola-Penna, M.F. de Oliveira, M.O. Moraes, F.A. Lara

T07 EXTRACELLULAR MATRIX AND CELL ADHESION MOLECULES

T07-001B

Increased expression of extracellular matrix proteins in temporal lobe epilepsy and their regulation by miRNAs in astrocytic cell cultures

A. Korotkov, D.W.M. Broekaart, B. Pustjens, J. van Scheppingen, J.C. Baayen, A.J. Becker, E.A. van Vliet, E. Aronica

T07-002B

Age-specific regulation of α5β1 integrin function during microglial migration in the embryo

S.M.-T. Smolders, N. Swinnen, K. Arnauts, S. Smolders, B. Le Bras, J.-M. Rigo, P. Legendre, B. Brone

T07-003B

Perilesional PDGFRβ+ vascular cells express uPAR after traumatic brain injury

J. Kyyriäinen, X.E. Ndode-Ekane, A. Pitkänen

T07-004B

2AG reduces the expression of CSPGs in astrocytes and promotes remyelination in a viral model of multiple sclerosis

A. Feliú, M. Mecha, F.J. Carrillo-Salinas, G. Hernández-Torres, S. Ortega-Gutiérrez, I. Bonilla Del Río, N. Puente, M.L. López-Rodríguez, P. Grandes, C. Guaza

T07-005B

Dysregulated MMP7 levels may contribute to the inability to clear remyelination-impairing fibronectin in MS lesions

P. Wang, R.P. Gorter, J.C. de Jonge, N. Muhammad, D. Hoekstra, W. Baron

T07-006B

Understanding the inhibitory influence of chondroitin sulfate proteoglycans on oligodendrocyte morphology

S. Cummings, S. Kornfeld, R. Kothary

T07-007B

The adhesion GPCR GPR56/ADGRG1 is required during peripheral nerve development

M. D'Rozario, S.D. Ackerman, A. Mogha, C. Johnson, R. Luo, X. Piao, K. Monk

T07-008B

The pattern of distribution of extracellular matrix in ApoE ε2, ε3 and ε4 astrocytes: relevance for Alzheimer's disease

A. Keable, D. Johnston, R. Weller, N. Smyth, R. Carare

T07-009B

Impact of Bral2 link protein deficiency on the perineuronal nets and extracellular space diffusion parameters in the auditory system during aging

M. Chmelova, P. Sucha, M. Kamenicka, M. Bochin, L. Vargova

T07-010B

Mechanical properties of the injured CNS: implications for remyelination and repair

M. Urbanski, C. Melendez-Vasquez

T07-011B

Chronic stress induced disturbances in Laminin: a significant contributor to modulating microglial pro-inflammatory tone?

G. Pietrogrande, N. Mabotuwana, Z. Zhao, A. Mahmoud, S.J. Johnson, K. Zalewska, M. Nilsson, F.R. Walker

T08 GENE EXPRESSION AND TRANSCRIPTION FACTORS

T08-001A

Phosphorylation state of ZFP191 controls oligodendrocyte differentiation

B. Elbaz, J.D. Aakar, S. Isaac, A. Eden, B. Popko

T08-002A

Integrated transcriptomic and methylomic network of the oligodendrocyte lineage

S. Moyon, S. Yoo, J. Huynh, D. Ma, R.J.M. Franklin, J. Zhu, P. Casaccia

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T08-003A

The systematic analysis of coding and long non-coding RNAs in the sub-chronic and chronic stages of spinal cord injury reveal major pathways in gliosis

R. Cuevas-Diaz Duran, H. Yan, Y. Zheng, R. Grill, D. Kim, Q. Cao, J. Wu

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T08-004A

Microglia-specific expression of translocator protein (18kDa) (TSPO)

K. Rashid, R. Scholz, M. Karlstetter, A. Wolf, T. Langmann

T08-005A

RNA-seq characterization of mouse and human glia

Y. He, X. Yao, N. Taylor, A. Bhattacharya

T08-006A

Chd7, chromatin remodeling factor, function in oligodendrogenesis and (re)myelination

C. Marie, A. Clavairoly, M. Frah, H. Hmidan, D. He, J. Yan, P. Gressens, P. Ravassard, D. Martin, R.Q. Lu, C. Parras

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T08-007A

Efficient transfection of a microglia cell line using magnetofection

S. Kessels, S. Smolders, S.M.-T. Smolders, F. Poulhes, O. Zelphati, C. Sapet, B. Brône

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T08-008A

The influence of mDomino/p400 on Schwann cell development in mice

F. Fröb

T08-009A

Transcriptional profiling of primary human microglia in normal appearing multiple sclerosis tissue

M. van der Poel, T. Ulas, S. Miedema, M.R. Mizee, J.L. Schultze, J. Hamann, I. Huitinga

T08-010A

Regulation of oligodendrocyte lineage cell function by the RXRγ nuclear receptor

L. Di Canio, A. Guzmán de la Fuente, G. Wayne, R.J.M. Franklin

T08-011A

Effect of Gas6 signalling on expression of MS-related genes in mouse CNS, and influence on experimental demyelination

S. Goudarzi, S. Hafizi

T08-012A

The role of zinc finger transcription factor Zfp276 during glial development

M. Küspert, E. Sock, M. Wegner

T08-013A

Actions of miRNA-124 on adult human brain cells

M. Aalderink, A.M. Smith, J. Rustenhoven, M. Dragunow

T08-014A

Mutations in *Adgrg6/Gpr126* or *Adgrg1/Gpr56* lead to global expression changes in developing Schwann cells of the sciatic nerve

N.E. Sanchez, B. Harty, C. Johnson, S.D. Ackerman, K. Monk

T08-015A This poster has been withdrawn.

T08-016A

Definition of the microglial activome from individual mice by RNAseq

H. Hirbec, C. Roubert, I. Richard, C. Marmai, A. Esclangon, M. Didier, R. Peyroutou, M. Boulpicante, C. Rey, F. Rassendren

T08-017A

Nkx2.2 is a direct target gene of Sox10 in oligodendroglia

M. Weider, C. Schmitt, S. Hillgaertner, M. Wegner

T08-018A

Microglia exhibits proliferative and ECM modulating profiles in human gliomas

T.F. de Almeida Galatro, A. Lerario, I. Moretti, P. Sola, E.R. Bertoldi, V.G. Freitas, T. Pereira, R.C. Martinez, M.V. Maldaun, B.J.L. Eggen, S.K. Marie

T08-019A

The human microglia transcriptome and age-associated changes

B. Eggen, T. Galatro, I. Holtman, A. Lerario, E. Boddeke, S. Marie

T08-020A

Characterization of primary and acute isolated microglia under homeostatic and inflammatory conditions

C. Sousa, D. Coowar, A. Golebiewska, R. Balling, J.C. Schwamborn, K. Biber, A. Michelucci

T08-021A

Spinal cord injury induces astroglial conversion towards neural lineage

H. Noristani, J.-C. Sabourin, H. Boukhaddaoui, E. Chan Seng, Y.N. Gerber, F. Perrin

T08-022A

Brca1 is expressed in human microglia and is dysregulated in human and animal model of ALS

H.N. Noristani, J.-C. Sabourin, Y.N. Gerber, M. Teigell, A. Sommacal, M.D.M. Vivanco, M. Weber, F.E.P. Perrin

T08-023A

Alcohol induced changes in microglial activation

D. Feinstein, S. Pandey, S. Kalinin

T08-024A

MicroRNAs in maternal peripheral blood and umbilical cord blood as biomarkers of prenatal exposure to substances of abuse and brain health

L. Bakhireva, R. Miranda

T08-025A

Transcription factor Sox10 regulates oligodendroglial Sox9 levels via microRNAs

S. Reiprich, M. Cantone, M. Weider, T. Baroti, J. Wittstatt, C. Schmitt, M. Küspert, J. Vera, M. Wegner

T08-026A

Epigenetic regulation of microglia phenotypes

S. Kooistra, X. Zhang, M. Dubbelaar, W. Schaafsma, N. Brouwer, I. Holtman, E. Boddeke, B. Eggen

T08-027A

Identification of transcription factors setting the active distal regulatory landscape that drives astrogliogenesis

N. Tiwari, A. Pataskar, S. Thakurela, V. Tiwari, B. Berninger

T08-028A

Transcript analysis of laser-microdissected white matter reactive astrocytes during chronic experimental autoimmune encephalomyelitis treated with laquinimod

A.B. Nicot, J. Rambeau, A. Garcia, D.A. Laplaud, J. Kaye

T08-029A

Glial cells in the transcriptomic response to chronic psychosocial stress exposure in two inbred mouse strains

M. Laine, K. Trontti, Z. Misiewicz, E. Sokolowska, I. Balcells, I. Hovatta

T08-030A

Isolation of satellite glial cells for high-quality RNA purification

S.B. Jager, L.T. Pallesen, C.B. Vaegter

T08-031A

Ex-vivo analysis of astrocyte subpopulations

C. Grit, N. Brouwer, M. Dubbelaar, I. Vainchtein, M. Borggrewe, I. Holtman, B. Eggen, E. Boddeke

T08-032A

Enriched environment recovers modifications of the glutamatergic system in the hippocampus of stressed young rats

P. Comassio, S. Merlo, C. Fonseca, A.B. Nakayama, J.I. Lemos, J. Moreira

T08-033A

Selection of reliable reference genes for analysis of gene expression in spinal cord during postnatal development and after injury

J. Košuth, J. Ševc, M. Farkašovská, Z. Daxnerová

T08-034A

Involvement of glucocorticoid receptor-dependent alterations in astrocytes in morphine action

J. Barut, U. Skupio, M. Tertil, S. Golda, L. Marut, R. Przewlocki

T08-035A

Mapping microglia heterogeneity in the developing brain using single-cell sequencing

T. Hammond, A. Wysocker, B. Seicol, A. Saunders, E. Macosko, J. Nemesh, S. McCarroll, B. Stevens

T08-036A

Low omega 6/omega 3 fatty acid ratio in maternal diet favors leukemia inhibitory factor (LIF) gene transcription in the offspring's neural cells

B. Andrade-da-Costa, A. Isaac , E. Silva, R. Matos, R. Augusto, G. Moreno, I. Mendonça, C. Pimentel, M. Rodrigues

T09 GLIAL-NEURONAL INTERACTIONS

T09-001B

Dystrophic microglia in culture increase alpha-synuclein expression and reduce its activity in SH-SY5Y cells

D. Brown, D. Angelova

T09-002B

Sodium loading in astrocytes and neurons under ischemic conditions *in situ* and *in vivo*

N.J. Gerkau, C. Rakers, G.C. Petzold, C.R. Rose

T09-003B

Assembly of CNS nodes of ranvier in myelinated nerves is promoted by the axon cytoskeleton

D. Sherman, V. Brivio, C. Faivre-Sarrailh, E. Peles, P. Brophy

T09-004B

Dystrophic microglia in culture increase β-amyloid released from SH-SY5Y cells

D. Angelova, D.R. Brown

T09-005B

Spatial impact of microglial distribution on dynamics of synapses

T. Iida, S. Tanaka, S. Okabe

T09-006B

PV^{+}-astrocyte signaling modulates inhibitory synaptic activity in cortical slices

S. Mederos, G. Perea

T09-007B

Astrocyte sodium signalling and panglial spread of sodium signals in brain white matter

B. Moshrefi-Ravasdjani, E. Hammel, K.W. Kafitz, C.R. Rose

T09-008B

Regional heterogeneity in sodium signalling in grey matter astrocytes

D. Ziemens, C.R. Rose

T09-009B

Cortical astrocytes rewire somatosensory cortical circuits for peripheral neuropathic pain

S. Koizumi, S.K. Kim, J. Nabekura

T09-010B

Improved biosensor system for the detection of ATP release from dorsal horn spinal cord glial cells and its modulation by noradrenaline

V. Eersapah, S. Hugel, R. Schlichter

T09-011B

GABAergic synapses onto oligodendrocyte precursors regulate their cellular self-maintenance

B. Najate, M. Balia, M.C. Angulo

T09-012B

Glial overexpression of the E3 ubiquitin ligase *Dube3a* alters Na^+/K^+ homeostasis and results in seizure susceptibility in a *Drosophila* model of Duplication 15q syndrome

K. Hope, D. Johnson, D. Kakhniashvili, L. Reiter

T09-013B

Activity dependent synaptic refinement by microglia: a regulatory role for neurotransmitters?

P. Ormel, M. de Goeij, A. Çelebi, E.M. Hol, R. Kahn, L. de Witte

T09-014B

Pharmacogenetic inhibiting VMH astrocytes induced anxiolytic behaviors in mice

Y. Liu, J. Shao, X. Zhou, Q. Xiao, S. Chen, L. Wang, J. Tu, F. Yang

T09-015B

Cortical interneurons and their ontogenetically related oligodendrocyte precursors derived from the embryonic preoptic area form postnatal functional clusters

D. Orduz, N. Benamer, E. Coppola, L. Vigier, A. Pierani, M.C. Angulo

T09-016B

The role of astrocytes in modulation of neural circuits for brain diseases

X. Zhou, Q. Xiao, Y. Liu, S. Chen, F. Yang, L. Wang, J. Tu

T09-017B

Chronic-stress induces microglial hyper-ramification and up-regulation of cytokines in stress-responsive brain regions

S. Brioschi, K. Biber

T09-018B

Astrocytes mediate hippocampal long-term depression

M. Navarrete, A. San Agustín, A. Konomi, J.A. Esteban

T09-019B

Knockdown of the glucocorticoid receptor in astrocytes alters reward-associated behavior in mice

U. Skupio, S. Golda, J. Barut, M. Tertil, L. Kudla, L. Marut, R. Przewlocki

T09-020B

Characterization of neuroglial cells in the sea lamprey *Petromyzon marinus*

M.-T. Weil, S. Heibeck, T. Ruhwedel, M.C. Rodicio, J.R. Morgan, K.-A. Nave, H.B. Werner, W. Möbius

T09-021B

Cell penetrating peptides based on Connexin43 exert neuroprotective effects through the inhibition of glial hemichannel activity

R. Talaverón, E. Gangoso, M. Jaraíz-Rodríguez, M. Domínguez-Prieto, P. Ezan, A. Koulakoff, J.M. Medina, C. Gaume, A. Tabernero

T09-022B

Astrocytic modulation of neuronal network oscillations

A. Bellot-Saez, G. Cohen, J.W. Morley, Y. Buskila

T09-023B

Astrocytes control dopamine homeostasis during postnatal maturation of the prefrontal cortex

F. Petrelli, L. Pucci, G. Dallérac, C. Calí, S. Sultan, T. Zehnder, C.S. Asensio, V. Gundersen, N. Toni, G. Knott, F. Magara, F. Kirchhoff, N. Déglon, B. Giros, R.H. Edwards, J. Mothet, P. Bezzi

T09-024B

Structural and functional analyses of panglial coupling networks in the thalamus and its impact on brain signaling

C. Philippot, L. Claus, S. Griemsmann, R. Jabs, C. Henneberger, H. Kettenmann, C. Steinhäuser

T09-025B This poster has been withdrawn.

T09-026B

NG2 glia-specific gene knockout as a tool to understand the impact of neuron-glia synaptic signaling

A. Timmermann, A. Boehlen, M. Skubal, R. Jabs, F. Kirchhoff, G. Seifert, C. Steinhäuser

T09-027B

Glial and neuronal dysfunctions in the anterior cingulate cortex of a mouse model of migraine

J. Romanos, D. Pietrobon, H.U. Zeilhofer, M. Santello

T09-028B

Glutamatergic presynaptic terminals are supported by astroglial connexin 43

G. Cheung, O. Chever, N. Quenech'du, N. Rouach

T09-029B

Axoglial synapses are formed onto pioneer oligodendrocyte precursor cells at the onset of spinal cord gliogenesis

G. Osterstock, B. Le Bras-Cailbourdin, H. Arulkandarajah, H. Le Corronc, A. Czarnecki, C. Mouffle, E. Bullier, P. Legendre, J.-M. Mangin

T09-030B

Astrocytes are a primary target for neuronal BDNF: implications for the regulation of astrocyte morphological complexity

L. Holt, M. Olsen

T09-031B

Kir4.1-dependent astrocyte-fast motor neuron interactions are required for peak strength

L. Ben Haim, K.W. Kelley, L. Schirmer, G. Tyzack, M. Tolman, J. Miller, H.-H. Tsai, S. Chang, R. Patani, Y. Yang, A.V. Molofsky, A. Lakatos, E.M. Ullian, D. Rowitch

T09-032B

In vivo exploration of astrocytes contribution to motor learning

C. Delepine, J. Ip, K. Li, J. Petravicz, M. Sur

T09-033B

Study of astrocyte-specific and inducible $GABA_B$ receptor deletion in the mouse brain

L. Schlosser, X. Bai, L.C. Caudal, G. Stopper, A. Scheller, F. Kirchhoff

T09-034B

Behavior and relation of microglia and astrocytes in trigeminal motor nucleus following peripheral nerve injury to the masseteric nerve of the rat

S. Wakisaka, H. Ogura, S. Nagatani, S. Honma

T09-035B

Early-life PUFAs modulate shaping of neuronal circuits by microglia

Q. Leyrolle, C. Madore, C. Joffre, P. Gressens, S. Layé, A. Nadjar

T09-036B

Dopamine regulates synaptic transmission in the nucleus accumbens via the activation of astrocytes

M. Corkrum, A. Covelo, R. Quintana, K. Loke, A. Araque

T09-037B

Metabolic inhibition of astrocytes impairs central chemoreception in caudal brainstem slices

J. Eugenin, S. Beltrán-Castillo, M.J. Olivares, R. Contreras, G. Zúñiga

T09-038B

Contribution of astrocyte circadian rhythms to the timekeeping system

O. Barca Mayo, M. Pons Espinal, O. Follert, A. Armirotti, L. Berdondini, D. de Pietri Tonelli

T09-039B This poster has been withdrawn.

T09-040B

Altered secretion of astrocyte-derived extracellular vesicles contribute to the early metabolic failure in Huntington's disease

F.A. Beltran, L. Torres, P. Troncoso-Escudero, I. Vicencio, X.-J. Li, L. Lamberti, P. Rojas, M.A. Castro

T09-041B

Sex-dependent effect of thyroid hormone in glial-neuronal interaction and animal behavior

M. Noda, Y. Yoshioka, Y. Kitahara, A. Nishi

T09-042B

Aquaporin-4 surface dynamics regulate astrocytic process motility in an isoform-dependent manner

S. Ciappelloni, D. Bouchet, N. Dubourdieu, A. Panatier, S. Oliet, T. Tourdias, L. Groc

T09-043B

Astrocytic-neuronal interplay controls circadian pace-making in mammals

M. Brancaccio, A.P. Patton, J.E. Chesham, E.S. Maywood, M.H. Hastings

T09-044B

Correct myelin targeting by oligodendrocytes *in vivo* requires a balance between myelin production and available axonal space

R. Almeida, D. Lyons

T09-045B

Physiological mitochondrial reactive oxygen species in astrocytes boost neuronal survival by up-regulating Nrf2

N. Bonora, C. Vicente-Gutiérrez, J.P. Bolaños

T09-046B

Neurons increase astrocytic glutamate transporter expression and uptake capacity via Notch signalling

A.C. Todd, P. Hasel, P.S. Baxter, O. Dando, Z. Jiwaji, D.J.A. Wyllie, G.E. Hardingham

T09-047B

Quantification of tamoxifen-dependent recombination in cortical astrocytes and cerebellar Bergmann glia

C.V. Bohn, A. Tartakowski, H.M. Jahn, X. Bai, A. Scheller, J. Walter, F. Kirchhoff

T09-048B

Modeling the metabolic response of astrocytes to neuronal activity

J. Coggan, D. Keller, C. Calí, H. Lehvaslaiho, F. Schürmann, H. Markram, P.J. Magistretti

T09-049B

The characterization of the neurodevelopmental milestones of the IP_3R2KO mouse model

S. Guerra-Gomes, V.M. Sardinha, E. Loureiro-Campos, G. Tavares, I. Caetano, N. Sousa, L. Pinto, J.F. Oliveira

T09-050B

Protein translation in astrocytic processes

A. Müller, P. Landgraf, A. Stellmacher, J.L. Vázquez López, D.C. Dieterich

T09-051B

Role of ATP and astrocytes in the lamprey respiratory network

L. Iovino, E. Cinelli, D. Mutolo, F. Bongianni

T09-052B

Neuron-astrocyte signaling is preserved in the ageing brain

M. Martin Fernandez, M. Gómez-Gonzalo, R. Martínez-Murillo, S. Mederos, A. Hernández-Vivanco, G. Perea, A. Araque

T09-053B

Glycine receptor in astrocytes – effect upon astrocytic communication

T. Morais, D. Coelho, S.H. Vaz, A.M. Sebastião, C.A. Valente

T09-054B

Fast 3D imaging reveals new features of astrocyte Ca^{2+} dynamics and astrocyte-synapse interactions

I. Savtchouk, E. Bindocci, G. Carriero, D. Becker, N. Liaudet, A. Volterra

T09-055B

The importance of kynurenine 3-monooxygenase activated in spinal microglia for neuropathic pain

E. Rojewska, A. Piotrowska, J. Mika

T09-056B

Activity-dependent local translation in NG2 cells as receivers and transducers of neuronal network signals

H. Yigit, A. Müller, D.C. Dieterich, J. Trotter

T09-057B

pH_i distribution and H^+ changes in cultured mouse hippocampal astrocytes: a compartimentalized analysis for excitatory stimuli

A. Weise, A. Seidinger

T09-058B

Astrocytes protect cortical neurons via a GPR37L1-mediated mechanism

B. Liu, A. Teschemacher, S. Kasparov

T09-059B

Structure-activity studies into lactate-mediated depolarisation and noradrenaline release in the rat Locus Coeruleus

A. Rasooli-Nejad, V. Mosienko, D. Jane, S. Kasparov, A. Teschemacher

T09-060B

Effect of botulinum toxin type a and minocycline on lipopolysaccharide-stimulated rat microglial and astroglial cultures

A. Piotrowska-Murzyn, K. Popiołek-Barczyk, F. Pavone, J. Mika

T09-061B

Monitoring astrocyte heterogeneity and protein synthesis capacities cell-type specifically in murine brain regions

J.L. Vázquez López, A. Stellmacher, A. Müller, M. Böx, P. Landgraf, D.C. Dieterich

T09-062B

IL-1α and modulation of spinal glutamate release: protection against oxaliplatin-induced neuropathic pain

M. Marcoli, L. Micheli, C. Cervetto, A. Venturini, B. Tenci, G. Maura, C. Ghelardini, L. di Cesare Mannelli

T09-063B

Microglia synapse interaction precedes synapse elimination in mouse models of AD

M. Chamoun, F. Nebeling, J. Schneider, J. Steffen, L. Gu, M. Fuhrmann

T09-064B

Epilepsy and abnormal potassium dynamics upon loss of function of the astrocyte specific protein MLC1

R. Min, M. Dubey, E. Brouwers, E.M.C. Hamilton, O. Stiedl, M. Bugiani, H. Koch, R.C. Wykes, H.D. Mansvelder, M.S. van der Knaap

T09-065B

P2X7-mediated communication in cochlear glial cells

S. Prades, G. Heard, L. Browne, J. Gale, K. Smith, D. Jagger

T09-066B

Spike-timing dependent plasticity in the hippocampus, affected by reactive gliosis in Alzheimer's disease?

T. Smit, W. Wadman, E.M. Hol

T09-067B

AstroProt: a new database at the synprot portal for the proteome of astrocytes

R. Pielot, A. Müller, F. Kirchhoff, E.D. Gundelfinger, D.C. Dieterich

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T09-068B

Involvement of microglial P2X4 receptors in neuropathic pain: are females and males so different ?

L. Ulmann, M. Lenoir, F. Rassendren

T09-069B

Investigating the role of myelination during neuronal circuit formation

S. Koudelka, D. Šuminaitė, M. Livesey, D. Lyons

T09-070B

Conditional inactivation of the *eif2b5* gene in radial glial cell or oligodendrocyte cell lineages in mice: models for studying the CACH/VWM syndrome

A. Bark, R. Abdel Rassoul, A. Huyghe, J. Bonheur, M. Begou, O. Boespflug-Tanguy

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T09-071B

Rab6A identifies a system of ubiquitous, abundant exocytotic cisterns and vesicles in astrocyte processes

R. Brunkhorst, F. Keil, H.-W. Korf, H.-H. Bock, A. Derouiche

T09-072B

Molecular heterogeneity of CNS myelin: novel role and regional relevance of a chemokine-like signaling protein in brain function

M.A. Eichel, K.A. Lueders, W. Möbius, K.-A. Nave, O. Jahn, H.B. Werner

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T09-073B

BDNF-mediated facilitation of LTP at the hippocampus is dependent of gliotransmitters released by astrocytes

S.H. Vaz, J. Jesus, A.M. Sebastião

T09-074B

Development of a novel molecular tool to selectively inhibit astrocyte-to-neurone L-lactate signalling

B. Vaccari Cardoso, S. Kasparov, A.V. Gourine, A.G. Teschemacher

T09-075B

Control of motor coordination through astrocytic tonic GABA release by regulating neuronal excitability in cerebellum

B.-E. Yoon

T09-076B

Native A2A-D2 receptor-receptor interaction in striatal astrocyte processes: modulation of glutamate release

C. Cervetto, A. Venturini, M. Passalacqua, S. Genedani, K. Fuxe, D. Borroto Escuela, P. Cortelli, A. Woods, D. Guidolin, G. Maura, L.F. Agnati, M. Marcoli

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T09-077B

Preoptic glycine receptors: possible mediators of neuron-glial interaction affecting social behavior in male rats

Z. Zhuravleva, N. Titova, I. Mukhina, M. Druzin

T09-078B

The functional role of the intracellular domain of NG2 protein

T. Nayak, D. Sakry, H. Yigit, J. Trotter

T09-079B

Uncoupling oligodendrocyte differentiation and myelination during development: is dynamic neuronal signaling required?

S. Mayoral, A. Etxeberria, J. Chan

T09-080B

Plasmalogens regulate oligodendrocyte maturation and myelination

A. Malheiro, T. Silva, B. Correia, P. Brites

T09-081B

Novel regulator of axon caliber growth in the CNS

J. Bin, S. Benito, D. Lyons

T09-082B

Proteomic investigation of perisynaptic astrocyte proteins

A. Badia-Soteras, K.E. Carney, S.H.R. Oliet, A.B. Smit, M.H.G. Verheijen

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T09-083B

Role of neuron-microglia secretome and stress-related microRNAS in Alzheimer's disease

D. Brites, M. Monteiro, A.R. Ribeiro, C. Cunha, A.R. Vaz, A. Fernandes

T09-084B This poster has been withdrawn.

T09-085B

A2A-D2 receptor-receptor interaction in striatal astrocyte processes: homocysteine modulation of glutamate release

A. Venturini, C. Cervetto, D. Guidolin, G. Maura, M. Passalacqua, C. Tacchetti, P. Cortelli, S. Genedani, L.F. Agnati, M. Marcoli

T09-086B

Microfabricated co-culture device for evaluating Schwann cell's support of axonal conduction property

K. Sakai, K. Shimba, K. Kotani, Y. Jimbo

T09-087B

Contribution of glial transmitter receptors to pathological network function in mouse models of epilepsy

L.C. Caudal, X. Bai, C.V. Bohn, L. Schlosser, G. Stopper, M. Schweigmann, A. Scheller, F. Kirchhoff

T09-088B

Heterogeneity of astrocyte morphology as a functional determinant of synaptic release in the hippocampal CA1 stratum radiatum

D. Minge, S. Anders, C. Henneberger

T09-089B

Metabolic adaptations of neurons to physiological oxygen levels in the presence of astrocytes

M. Warde, E. Fernandez, J.P. Bolaños

T09-090B

Differential glutamate buffering between cortical regions impacts synaptic functions

J. Romanos, M. Santello

T09-091B

Peri-neuronal satellite cells in the central nervous system: isolation and characterization

H. Ghazale, P. Guigue, B. Rothhut, J.-P. Hugnot

T09-092B

Role of glial non-coding RNAs in the pathogenesis of temporal lobe epilepsy

K. Senthilkumar, V.R. Vangoor, P.N.E. de Graan, E.M. Hol, R.J. Pasterkamp

T09-093B

Autocrine purinergic signaling controls glutamate release from astrocytes

W. Shen, L. Nikolic, C. Meunier, E. Audinat

T09-094B

Imaging extracellular potassium dynamics in brain tissue using a potassium-sensitive nanosensor

J. Wellbourne-Wood, T.S. Rimmele, J.-Y. Chatton

T09-095B

Microglia-mediated synaptic pruning in the *Cstb*$^{-/-}$ mouse model for progressive myoclonus epilepsy, EPM1

S. Tegelberg, P. Hakala, T. Joensuu, A.-E. Lehesjoki

T09-096B

The phagocytic profile of microglia in the postnatal development of the spinal cord

Y. Xu, M. Fitzgerald, S. Beggs

T09-097B

Neuron to glia ratios adjusted by the use of FUdR and the role of glia secreted factors on the regulation of neuronal sodium current density in hippocampal cultures from rats

L. Klapal, H. Leßlich, I.D. Dietzel

T09-098B

Oligodendrocytes gain a plastic fate after acute brain trauma

X. Bai, N. Zhao, W. Huang, L.C. Caudal, B. Catalin, A. Cupido, R. Zhao, J. Hirrlinger, W. Walz, F. Kirchhoff, A. Scheller

T09-099B

Astrocytes, friends and foes at the synapse

Y. Schwarz, D. Bruns

T09-100B

A flexible surface microelectrode array to record electrical activity from neocortical neurons during two-photon imaging of astroglial Ca^{2+} signals in mice

M. Schweigmann, L. Schlosser, K.P. Koch, F. Kirchhoff

T09-101B

Inhibition of glutamate uptake and neurotransmission by increased extracellular potassium

A.-B. Rocher, T.S. Rimmele, J. Wellbourne-Wood, J.-Y. Chatton

T09-102B

Glia-to-neuron interaction in the brainstem periaqueductal gray plays an important role in chronic morphine physical withdrawal

S. Liu, H. Yi, T. Iida, Q. Liu, G. Zhuang, R. Levitt, S. Hao

T09-103B

Role of astrocyte exosome microRNAs in astrocyte-neuron communication and its significance in amyotrophic lateral sclerosis (ALS)

S. Marton, E. Miquel, P. Cassina

T09-104B

Simultaneous neuronal and astrocytic network calcium dynamics in locomoting mice

K.D. Ferrari, J.L. Stobart, M.J.P. Barrett, M. Kyburz, B. Weber

T09-105B

Synergistic interaction of L-Lactate and Glycine to potentiate NMDA receptor activity: a new form of meta-potentiation?

P. Jourdain, K. Rothenfusser, I. Allaman, P. Marquet, P.J. Magistretti

T09-106B

Rapid astrocyte morphology changes support epileptic activity

S. Anders, M. Herde, D. Minge, T. Deshpande, B. Breithausen, A. Boehlen, P. Bedner, C. Steinhäuser, C. Henneberger

T09-107B

Bioengineering a novel neuronal device to study human myelination *in-vitro*

K. Michail, N.R. Leslie, D. Flynn, M. Kersaudy-Kerhoas, G. Whyte, T. Ryan, E.R. Brown

T09-108B

Evaluation of the receptor-mediated function of lactate in neuronal activity

H. de Castro Abrantes, M. Briquet, S. Offermanns, J.-Y. Chatton

T09-109B

Alteration of axon initial segment stability and function in inflammatory *in vivo* and *in vitro* models

K. Clark, G. Devries, J. Dupree

T09-110B

Synaptic silencing by BoNT/A results in OPCs dysregulation *in vivo*

I. Chacon de la Rocha, G. Fryatt, D. Gomez-Nicola, V.H. Perry, A.M. Butt

T09-111B

Synaptic calcium signals in NG2 cells

D. Dietrich, W. Sun, E. Matthews, S. Schoch

T09-112B

Sortilin in microglia reactivity – investigating the mechanism underlying neuropathic pain

L.T. Pallesen, A.L.S. Svenningsen, S.B. Jager, R. Dieu, M. Richner, C.B. Vaegter

T09-113B

Myelination is essential for the establishment, but not the maintenance, of behavioral lateralization

S. Moore, W. Möbius, M. Meschkat, C. Kassmann, K.-A. Nave, L. de Hoz

T09-114B

Astrocytes or neurons? Cell-type specific responses to antidepressants – from histone modifications to synaptic changes

V. Malik, M. Jacovcevsky, I.D. Neumann, R. Rupprecht, B. di Benedetto

T09-115B

Computational modeling of glial-neuronal interactions

M.-L. Linne, R. Havela, T. Manninen

T09-116B

Changes in neuronal gene expression affected by Schwann cell-axon interactions

N. Sukhanov, Y. Eshed Eisenbach, E. Peles

T09-117B

The chemokine CXCL16 modulates neurotransmitter release in hippocampal CA1 area

M.A. di Castro, F. Trettel, G. Milior, L. Maggi, D. Ragozzino, C. Limatola

T09-118B

Newly identified Layer specific cortical astrocytes regulate synaptic and dendritic growth

S.J. Miller, J. Rothstein

T09-119B

A novel method for labelling mouse cortical astrocytes *in-vivo* and what it can reveal about astrocyte-neuron interactions

L. Georgiou, B. Kuhn

T10 ISCHEMIA AND HYPOXIA

T10-001B

Overexpression of pro- and antiapoptotic proteins in penumbra after local photothrombotic infarct in the rat cerebral cortex

A. Uzdensky, S. Demyanenko

T10-002B

Soluble epoxide hydrolase inhibition promotes white matter integrity and long-term functional recovery after chronic hypoperfusion in mice

M. Xie, Y. Chen, H. Tian, W. Wang

T10-003B

Expression of a novel TRP channel in astrocytes: implications for ischemic stroke

P. Liao

T10-004B

Location matters: the role of calmodulin mediated AQP4 translocation in the human astrocyte response to hypoxia and mild hypothermia

M. Salman, P. Kitchen, P. Heath, R. Bill, A. Conner, M.N. Woodroofe, M. Conner

T10-005B

Ischemia/stroke rapidly impairs microglial phagocytosis in vivo

M.S. Beccari Galeano, T. Umekawa, A. Osman, W. Han, C. Dominguez, K. Blomgren, A. Sierra

T10-006B

Evaluation of oligodendrocyte survival, maturation and myelinating potential in rat model of perinatal asphyxia

J. Sypecka, J. Janowska, M. Frontczak-Baniewicz, M. Ziemka-Nalecz

T10-007B

Inhibition of miR-181a protects male and female astrocyte cultures from glucose deprivation by targeting estrogen receptor-α

L. Xu, C. Stary, L. Li, X. Sun, Y.-B. Ouyang, R. Giffard

T10-008B

Dynamin-related protein (Drp-1)-dependent mitochondrial fission represents a target to promote axon function recovery after ischemia

S. Baltan, C. Bastian, S. Politano, S. Katharine, S. Brunet

T10-009B

β_2-adrenergic receptor mediates protection of astrocyte during ischemia/hypoxia

S. Tapechum, N. Mahawong, K. Tilokskulchai

T10-010B

Deletion of astrocytic Na^+/H^+ exchanger isoform 1 reduces neurovascular damage and improves CBF after ischemic stroke

G. Begum, S. Song, S. Wang, H. Zhao, M.I. Bhuiyan, E. Li, R. Nepomuceno, Q. Ye, M. Sun, D.B. Stolz, Y. Chen, G.E. Shull, D. Sun

T10-011B

Prenatal hypoxia-ischemia causes astrogliosis and reduces nNOS positive cells in the periaqueductal gray matter accompanied by hyperalgesia in adult male rats

L.S. de Almeida, M.C.C. Rodrigues, G. Diniz-Taveira, P.C. Araújo, O.M.M.S. de Almeida, P.C. Barradas

T10-012B

Topical administration of TNF-inhibitor XPro1595 decreases infarct volume after experimental stroke

M. Yli-Karjanmaa, B.H. Clausen, H.G. Novrup, D. Szymkowski, M. Meyer, R. Brambilla, K.L. Lambertsen

T10-013B This poster has been withdrawn.

T10-014B

The contribution of TREM2 and neuroinflammation to cerebrovascular-mediated cognitive impairment and dementia

S. Szymkowiak

T10-015B

Impact of the oxygen-glucose deprivation on differentiation of the rat oligodendrocyte progenitor cells – in vitro model of rat neonatal hypoxia-ischemia

J. Janowska, J. Sypecka

T10-016B

Oral corticosterone administration alone is sufficient to simulate the actions of chronic stress on glial cells but not on vasculature

K. Zalewska, L.K. Ong, G. Pietrogrande, S.J. Johnson, M. Nilsson, F.R. Walker

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T10-017B This poster has been withdrawn.

T10-018B This poster has been withdrawn.

T10-019B

Age-related changes in glial cells after focal cerebral ischemia

H. Matuskova, P. Honsa, D. Kirdajova, L. Valihrach, M. Kubista, M. Anderova

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T10-020B

Cannabidiol administration prevents hypoxia-ischemia-induced hypomyelinization in newborn rats

M. Ceprian, C. Vargas, F. Penna, I. Elezgarai, P. Grandes, L. Jimenez-Sanchez, J. Fernández-Ruiz, M.R. Pazos, J. Martinez-Orgado

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T10-021B

Effects of cannabidiol on microglia activation state in a newborn rat model of ischemic stroke

A. Olmos-Alonso, M. Ceprian, L. Jimenez-Sanchez, C. Vargas, L. Barata, W. Hind, J. Martinez-Orgado

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T10-022B

Contribution of TRPV4 channels to astrocyte volume regulation and brain edema formation

H. Pivonkova, D. Kirdajova, M. Chmelova, Z. Hermanova, P. Sucha, T. Awadova, J. Malinsky, D. Jirak, L. Valihrach, D. Zucha, M. Kubista, L. Vargova, M. Anderova

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T10-023B

Microglial phenotypes and behavioral disorders following neonatal ischemia: a role for Poly (ADP-ribose) Polymerase according to gender?

V. Besson, C. Leconte, M. Talatizi, R. Moretti, A.-C. Novak, C. Marchand-Leroux, O. Baud, C. Charriaut-Marlangue

T10-024B

Investigation the role of GDNF in neuron-glial networks functioning under conditions induced by substrate starvation

T. Shishkina, T. Mishchenko, E. Mitroshina, M. Vedunova

T10-025B

Apoptosis signal-regulaing kinase 1 regulates the function of microglia and macrophage after ischemic/hypoxic insults

S.Y. Cheon, B.-N. Koo

T10-026B

Investigating the cross-talk between microglia and oligodendrocyte progenitors in brain ischemia

E. Bonfanti, P. Gelosa, M. Lombardi, M. Cimino, L. Dimou, L. Sironi, C. Verderio, M.P. Abbracchio, M. Fumagalli

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T10-027B

Mapping neuroinflammation in an experimental mouse model of stroke

L. Buscemi, L. Hirt

T10-028B

Minocycline reduces microgliosis and improves subcortical white matter function in a model of chronic cerebral vascular disease

J. Duncombe, Y. Manso, P. Holland, A. Kitamura, L. Searcy, M. Marangoni, S. Szymkowiak, A. Randall, J. Brown, B. McColl, K. Horsburgh

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T10-029B

Effect of dehydroepiandrosterone and its sulphate ester on developing white matter injury in a combined oxygen-glucose deprivation/hypoxia model – preliminary data

M. Urbanek, E. Huber, U. Kiechl-Kohlendorfer, E. Griesmaier-Falkner, A. Posod

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T10-030B

Oxygen/glucose deprivation regulates differentially the expression and secretion of growth factors, proteases and their inhibitors, and cytokines: rat glioma versus primary glial cells

A. Neuhoff, E.-A. Subileau, C. Chesne, C. Förster, W. Neuhaus

T10-031B

PPARγ promotes inflammation-resolving microglial/macrophage responses and critically contributes to neurological recovery after ischemic stroke

M. Xu, Y. Shi, X. Jiang, R.A. Stetler, Y. Gao, R. Leak, X. Hu, J. Chen

T11 MEMORY AND LEARNING

T11-001A

Altered microglial phenotype in Neuroligin-4 deficient mice as a model of autism spectrum disorder

D. Güneykaya, A. Buonfiglioli, C. Comert, H. Ehrenreich, N. Brose, H. Kettenmann, S.A. Wolf

T11-002A

Brain region duality in the regulation of microglia morphology by adenosine A_{2A} receptors: implications for anxiety and cognition

R. Gaspar, J.M. Duarte, C. Liliana, P. Patrício, C. Cunha, A. Mateus-Pinheiro, N.D. Alves, A.R. Santos, S.G. Ferreira, V. Sardinha, J.F. Oliveira, N. Sousa, R.A. Cunha, A.F. Ambrósio, A.J. Rodrigues, L. Pinto, C.A. Gomes

T11-003A

Are hippocampal sharp wave-ripples linked to astrocytic network activity?

T. Hondrich, H. Jakobi, P. Geschwill, A. Draguhn, R. Sprengel

T11-004A

A key role of glycogen derived lactate from astrocytes in cocaine associated memories

B. Boury-Jamot, A. Carrard, J.-L. Martin, O. Halfon, P.J. Magistretti, B. Boutrel

T12 MYELIN

T12-001C

Novel gene crucial for myelin maintenance in zebrafish embryos

L. Kegel, M. Rubio, A. Klingseisen, S. Benito, D. Lyons

T12-002C

Mitochondrial DNA double-strand breaks induce oligodendrocyte death and an MS-like phenotype

P. Madsen, M. Pinto, S. Patel, S. McCarthy, H. Gao, G. Dvoriantchikova, D. Ivanov, K.F. Tanaka, C.T. Moraes, R. Brambilla

T12-003C

Can remyelination be enhanced by immunomodulatory therapeutic modality?

R. Aharoni, R. Eilam, M. Sela, R. Arnon

T12-004C

Distinct roles of mTORC1 in Schwann cells for regulation of PNS myelination

B. Beirowski, K. Men Wong, E. Babetto, J. Milbrandt

T12-005C

Activin receptors and their ligands are key drivers of remyelination

A. Dillenburg, C. Davies, D. Soong, A. Williams, V. Miron

T12-006C

Curcumin improves remyelination and decreases astrogliosis following gliotoxic injury in the rat brainstem

E. Bondan, C. Vieira Cardoso, M.F. Martins

T12-007C

A large-scale forward genetic screen in zebrafish to uncover novel regulators of myelination

A. Soung, S.D. Ackerman, B. Harty, R. Almeida, S. Nandadasa, A. Herbert, C. Johnson, C. Raciti, S. Apte, D. Lyons, K. Monk

T12-008C

Defining the role of the guanine nucleotide exchange factor, *dock1*, in Schwann cell development

R. Cunningham, B. Harty, A. Herbert, S.D. Ackerman, K. Monk

T12-009C

Development and characterization of focal demyelination models for MS

M. Challagundla, P. Schleese, C. Klein

T12-010C

Myelin and microglia in the aging brain

S. Safaiyan, M. Simons

T12-011C

Endoplasmic-reticulum-associated degradation (ERAD) modulates disease severity in a Charcot-Marie-Tooth-1B mouse model

V.G. Volpi, I. Fregno, C. Ferri, U. Del Carro, F. Bianchi, E. Pettinato, R. Mastrangelo, M. Molinari, M.L. Feltri, L. Wrabetz, M. D'Antonio

T12-012C

Effect of increased neuronal activity on remyelination in freely moving mice

F. Ortiz Cisternas, C. Habermacher, P.Y. Houry, M. Graciarena, B. Nait-Oumesmar, M.C. Angulo

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T12-013C

Quaking dependent splicing of *Neurofascin 155* is required for axoglial junction formation and maintenance

L. Darbelli, G. Vogel, G. Almazan, S. Richard

T12-014C

Autophagolysosome-mediated SAD-MAD transition is the mechanism of segmental demyelination in inflammatory peripheral nerve demyelination

S.Y. Jang, B.-A. Yoon, Y.K. Shin, S.H. Yun, Y.Y. Choi, Y.R. Jo, J.K. Kim, J.I. Park, H.T. Park

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T12-015C

Schwann cells myelinate multiple axons in the absence of Fbxw7

B. Harty, S.D. Ackerman, A.L. Herbert, C. Johnson, D.A. Lyons, K. Monk

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T12-016C

Expression of GPR17 receptor in a murine model of perinatal brain neuroinflammation and its possible interaction with Wnt pathway

M. Boccazzi, J. van Steenwinckel, A.-L. Schang, L. Schwendimann, B. Fleiss, M.P. Abbracchio, M. Fumagalli, P. Gressens

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T12-017C

The phosphodiesterase 4 (PDE4) inhibitor roflumilast improves remyelination in a mouse model for multiple sclerosis

M. Schepers, J. Mailleux, J. Bogie, N. van Goethem, N. Hellings, J. Hendriks, J. Prickaerts, T. Vanmierlo

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T12-018C

The role of the nuclear lamina in myelin maintenance and pathology

J. Patzig, M. Hernandez, C.L. Stewart, L. Shopland, P. Casaccia

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T12-019C

The role of central nervous system myelination in behaviour

M. Madden, S. Koudelka, J. Early, E. Mackay, I. Bianco, D. Lyons

T12-020C

Modulation of myelination by phospholipids, sphingomyelin, minerals and fatty acids in an oligodendrocyte-neuron mixed culture model

J. Hauser, M. Oliveira, N. Schneider, M. Combes, N. Callizot, P. Steiner

T12-021C

Myelin remodelling in the zebrafish central nervous system

J. Williamson, D. Lyons

T12-022C

Inducible MBP knock-out in adult mice: investigation of myelin maintenance and turnover

W. Möbius, M. Meschkat, M.-T. Weil, K. Kusch, H.B. Werner, K.-A. Nave

T12-023C

Rally for radial sorting: RalGTPases in peripheral nerve development

A. Ommer, G. Figlia, A.L. Dätwyler, J.A. Pereira, J. DeGeer, P. Peschard, G. Lalli, U. Suter

T12-024C

Promoting remyelination in the CNS using heparan sulfate mimetics

G. McCanney, M.A. McGrath, S.E. Guimond, J.E. Turnbull, H.J. Willison, S.C. Barnett

T12-025C

Functional differentiation of primed human iPS-derived glial cells into bona-fide mature oligodendrocytes following transplantation in the developing and adult demyelinated mice

S. Mozafari, M. Ehrlich, C. Bachelin, A. Marteyn, H.R. Schöler, T. Kuhlmann, A. Baron-van Evercooren

T12-026C

Collagen IV activates the discoidin domain receptor 1 in human oligodendrocytes

E. Vilella, N. Abasolo, L. Martorell

T12-027C

Protective properties of the JNK inhibitor D-JNKi in a rat model of diffuse white matter injury in preterm infants

E. van Tilborg, F. Groenendaal, C.J. Heijnen, M.J. Benders, C.H. Nijboer

T12-028C

Progressive disorganization of paranodal junctions and motor defects in mice lacking UNC5B expression by oligodendroctyes

O. de Faria Jr., D. Kim, D. Nakamura, E. Wong, K. Basu, J. Bin, M. Mocanu, R. Pilgram, Y. Jiang, A. Shmuel, A. Sadikot, S. Ackerman, T. Kennedy

T12-029C

A model of failed remyelination to examine the mechanisms and efficacy by which remyelination protects axons

G. Duncan, B. Hilton, P. Assinck, J. Plemel, R. Hirata, A. Lim, D. Bergles, W. Tetzlaff

T12-030C

***In vivo* imaging reveals distinct roles for local Ca^{2+} signalling in CNS myelin sheaths**

M. Baraban, S. Koudelka, D.A. Lyons

T12-031C

Complex roles of FGF2 in multiple sclerosis and its implications for therapeutic strategies designed to enhance endogenous repair: Wnt-dependent inhibition of myelination and FGFR1-dependent mitogen for oligodendrocytes

K. Thuemmler, T. Zeis, D.E. Mcelroy, N. Schaeren-Wiemers, C. Linington

T12-032C

Endothelin receptor B influences myelin sheath formation

M. Swire, D. Lyons, C. ffrench-Constant

T12-033C

Characterization of mitochondria in oligodendrocytes and their myelin sheaths

J.E. Rinholm, K. Vervaeke, M.R. Tadross, A.N. Tkachuk, B.G. Kopek, T.A. Brown, L.H. Bergersen, M. Bjørås, D.A. Clayton

T12-034C

Investigating mechanisms of protein transport and assembly at the node of Ranvier

E. Grunewald, E. Malavasi, A. Ghosh, M. Zagnoni, D. Sherman, P. Brophy

T12-035C

Neuroinflammation, white matter injury, cognitive and emotional deficits after traumatic brain injury in the adult mice

T. Taib, C. Leconte, J. van Steenwinckel, A. Cho, B. Palmier, E. Torsello, C. Benedetto, K. Simon, R. Lai-Kuen, P. Gressens, C. Marchand-Leroux, V. Besson

T12-036C

Over-expression of Schwann cell c-Jun in vivo: effect on myelination and re-myelination

S. Fazal, J.A. Gomez-Sanchez, R. Mirsky, K.R. Jessen

T12-037C

Evidence of synaptic vesicle-mediated communication between neurons and oligodendroglial cells in the zebrafish spinal cord

M. Graciarena, M. Porte, M. Suster, D.A. Lyons, C. Wyart, B. Nait-Oumesmar

T12-038C

Intraventricular transplantation of canine glial restricted precursors prolongs lifespan of dysmyelinating mice

M. Majchrzak, L. Stanaszek, J. Sanford, P. Walczak, B. Lukomska, M. Janowski

T12-039C

Sphingosine 1-phosphate receptor modulation reduces demyelination in a murine model of Krabbe disease

S. Bechet, S. Fagan, S. O'Sullivan, J. Yssel, K. Dev

T12-040C

A "greedy" microglia is a "friendly" microglia

C. Mamma, B. Palmier, S. Lebon, R. Lawson, A. Ishikawa, C. Leconte, A.-C. Novak, P. Gressens, C. Marchand-Leroux, V. Besson, D. Lerouet

T12-041C

Structural and physiological adaptations for fast and reliable action potential conduction velocity and synaptic transmission in the auditory pathway

B. Grothe, A. Nabel, A. Stange-Marten, J. Sinclair, M. Fischl, O. Alexandrova, H. Wohlfrom, C. Kopp-Scheinpflug, M. Pecka

T12-042C

Internodal length variability and myelination patterns in the developing mouse somatosensory cortex

C. Pama, K.A. Evans, P. Humphreys, R.T. Karadottir

T12-043C

Monocarboxylate transporter (MCT1) in Schwann cells is a metabolic mediator for myelination of sensory axons during aging

M. Jha, K. Russell, Y. Lee, J. Rothstein, B. Morrison

T12-044C

S100B-RAGE signalling affect *de novo* myelination and remyelination

G. Santos, A. Barateiro, D. Brites, A. Fernandes

T12-045C

The transcriptional activator Krüppel-like factor-6 is required for CNS myelination

C. Zhang, B.M. Laitman, L. Asp, J.N. Mariani, J. Zhang, J. Liu, S. Sawai, C. Chapouly, S. Horng, E.G. Kramer, N. Mitiku, H. Loo, N. Burlant, X. Pedre, Y. Hara, G. Nudelman, E. Zaslavsky, Y.-M. Lee, D.A. Braun, Q.R. Lu, G. Narla, C.S. Raine, S.L. Friedman, P. Casaccia, G.R. John

T12-046C

GP130-STAT3 signaling promotes oligodendrocyte differentiation via transactivation of *Ets Variant 6*

S. Sawai, J.N. Mariani, B.M. Laitman, J. Zhang, C. Chapouly, V.D. Nair, K. Kim, S. Horng, N. Mitiku, G. Nudelman, G.R. John

T12-047C

p38MAPKγ inhibits OPC differentiation and myelination

L. Marziali, M. Palmisano, Y. Hwang, A. Cuenda, L. Wrabetz, M.L. Feltri

T12-048C

Role of Jun activating binding protein 1 (Jab1) in central nervous system (CNS) myelination

C. Rivellini, E. Porrello, G. Dina, K.-A. Nave, C. Lappe-Siefke, U. Suter, R. Pardi, A. Quattrini, S.C. Previtali

T12-049C

Planar polarity signalling in oligodendroglia organises the CNS node of Ranvier

A. Jarjour, A. Boyd, K. Topham, L. Dow, P. Humbert, D. Henderson, A. Williams, C. ffrench-Constant

T12-050C This poster has been withdrawn.

T12-051C

Using mouse models of peripheral neuropathies to study the development of Schmidt-Lanterman incisures

B.G. Brinkmann, T. Kungl, M. Ebert, S. Wernick, S. Quintes, K.-A. Nave, M.W. Sereda

T12-052C

A novel mutation in zebrafish resulting in myelination of neuronal cell bodies

A. Klingseisen, D. Lyons

T12-053C

Lipid profile of corpus callosum: a witness of demyelination after traumatic brain injury

D. Lerouet, T. Taib, N. Auzeil, A. Regazzetti, B. Coqueran, O. Laprévote, C. Marchand-Leroux, V. Besson

T12-054C

BDNF mediates neuronal activity-regulated OPC proliferation

A. Geraghty, M. Greenberg, M. Monje

T12-055C

Environmental enrichment promotes generation of new oligodendrocytes and attenuates hypoxia-induced perinatal white matter injury

T. Forbes, B. Jablonska, V. Gallo

T12-056C

The role of Adgrg6/Gpr126 in sensory neurons

C. Johnson, A. Mogha, K. Monk

T12-057C

Selective estrogen receptor modulators significantly enhance remyelination in an estrogen receptor-independent manner

K. Rankin

T12-058C

Rapid and efficient generation of human oligodendrocytes from induced pluripotent stem cells for in vitro disease modelling and drug discovery

M. Ehrlich, L. Starost, S. Mozafari, M. Glatza, S. Velychko, Q.-L. Cui, J. Antel, H.R. Schöler, A. Baron-van Evercooren, T. Kuhlmann

T12-059C

Structure, function and pathology of the myelinic channel; the oligodendrocyte's highway to the axon

L. Pardo-Fernandez, T. Vargova, S. Williamson, C. Linington, C. Kassmann, K.-A. Nave, J.M. Edgar

T12-060C

Oligodendrocyte-encoded potassium channel *Kir4.1* regulates white matter function during aging and injury

L. Schirmer, L. Shiow, C. Zhao, A. Cruz Herranz, C. Cordano, L. Ben Haim, K.W. Kelley, G. Timmons, J. Wright, S. Chang, K. Sabeur, A. Green, R.J.M. Franklin, D. Rowitch

T12-061C

SIRT2 as a genetic modifier of axonal degeneration in white matter tracts

K. Kusch, M. Uecker, T. Liepold, W. Möbius, H.B. Werner, O. Valerius, O. Jahn, K.-A. Nave

T12-062C

Alginate hydrogel implants improve recovery in a rat model of spinal cord injury

O. Uckermann, R. Galli, K.H. Sitoci-Ficici, M. Gelinsky, E. Koch, G. Schackert, G. Steiner, M. Kirsch

T12-063C

Mir-125a-3p negatively regulates oligodendrocyte precursor cells maturation and is altered in human multiple sclerosis

D. Marangon, E. Boda, C. Giorgi, G.T. Coppolino, R. Parolisi, A. Finardi, R. Furlan, A. Buffo, M.P. Abbracchio, D. Lecca

T12-064C

Citrullination modulates oligodendrocyte differentiation

A. Falcao, M. Meijer, P. Rinwa, T. Cummings, M. Varas, J. Liang, P. Casaccia, M. Christophorou, M. Lund Nielsen, P. Ernfors, G. Castelo-Branco

T12-065C

Extracellular leaflet compaction require Apolipoprotein D myelin-membrane management by optimizing lysosomal-dependent recycling and glycocalix removal

N. Garcia-Mateo, A. Perez-Castellanos, R. Pascua-Maestro, C. Lillo, D. Sanchez, M.D. Ganfornina

T12-066C

Individual CNS myelin sheath sizes are independently regulated by physical cues

M. Bechler, L. Byrne, C. ffrench-Constant

T12-067C This poster has been withdrawn.

T12-068C

Neuropathological evaluations of DRG cultures: testing different geometrical parameters in a dysmyelinating model

G. Capodivento, D. Visigalli, A. Schenone, L. Nobbio

T12-069C

Differential myelin degeneration during aging and Alzheimer's disease: an ultrastructural analysis in a triple transgenic mouse model

T. Quintela-López, W. Möbius, T. Ruhwedel, K.-A. Nave, C. Matute, E. Alberdi

T12-070C

Neurofibromin expressed by oligodendrocytes regulates myelin structure and behavior through the control of notch signaling

A. López-Juárez, H. Titus, S. Silbak, J. Pressler, T. Rizvi, M. Bogard, M. Bennett, C. Georgianne, M. Williams, C. Vorhees, N. Ratner

T12-071C

Role of Necl4 (Cadm4/SynCAM4) in CNS myelination

N. Elazar, A. Vainshtein, Y. Eshed-Eisenbach, E. Peles

T12-072C

Chimaerins: a missing link between myelination and ephrinB3-EphA4 signalling?

N. Martynyuk, P. Buttery, P. Rericha, Y. Syed, M. Kotter

T12-073C

New oligodendrocyte myelin does not contribute to functional recovery after moderate thoracic spinal contusion in mice

S. Manesh, G.J. Duncan, B. Hilton, P. Assinck, J. Plemel, P. Chau, S. Naderi-Azad, J. Liu, D. Bergles, W. Tetzlaff

T12-074C

The divalent metal transporter 1 (DMT1) is required for adequate oligodendrocyte progenitor cell maturation and myelination

V. Cheli, L. Marziali, D. Santiago González, N. Zamora, V. Spreuer, J.M. Pasquini, P. Paez

T12-075C

Temporal sound processing in the auditory cortex is influenced by changes in myelin integrity

S. Moore, W. Möbius, T. Ruhwedel, M.-T. Weil, K.-A. Nave, L. de Hoz

T12-076C

Identification of novel regulators of local MBP mRNA translation

J. Steengaard, J. Torvund-Jensen, L. Askbjerg, N. Clavsen, K. Kjaer-Sorensen, C. Oxvig, L. Laursen

T12-077C

Searching for inhibitory signals for myelination by combining proteomics and a CRISPR/cas9-based screen in myelinating cultures

Y. Eshed Eisenbach, B. Vijayaragav, J.R. Chan, E. Peles

T12-078C

High-sensitivity optical recording of Ca^{2+} dynamics in grey matter myelin

A. Battefeld, M. Popovic, M. Kole

T13 NEURAL STEM/PROGENITOR CELLS

T13-001C

Adipose-derived stem cells differentiate into a Schwann cell phenotype and promote in vivo peripheral nerve repair

W.C. Liao, C.H. Liu, Y.T. Lin, C.T. Lan, T.J. Tseng

T13-002C This poster has been withdrawn.

T13-003C

Transplantation of directly induced neural stem cell (iNSCs) promotes remyelination in a mouse model of experimental focal demyelination

N. Vicario, L. Peruzzotti-Jametti, A. Braga, S. Rizzi, G. Volpe, B. Balzarotti, G. Manferrari, C. Zhao, F. Edenhofer, R.J.M. Franklin, S. Pluchino

T13-004C

Proliferation and neural stem cell potential of diencephalic astrocytes revealed by genome-wide expression analysis is Smad4-dependent

S. Ohlig, M. Irmler, L. Lange Canhos, J.T. Eugenin von Bernhardi, L. Dimou, S. Sirko, J. Beckers, M. Götz

T13-005C

Transplanted induced neural stem cells ameliorate experimental autoimmune encephalomyelitis by metabolic reprogramming of mononuclear phagocytes

L. Peruzzotti-Jametti, J. Bernstock, N. Vicario, A.S.H. Costa, C.-K. Kwok, T. Leonardi, L. Booty, I. Bicci, B. Balzarotti, G. Volpe, G. Mallucci, G. Manferrari, N. Iraci, J.M. Hallenbeck, M.P. Murphy, F. Edenhofer, C. Frezza, S. Pluchino

T13-006C

Transplantation of directly induced neural stem cells (iNSCs) in mice with experimental contusion spinal cord injury

A. Braga, J. Verheyen, J. Smith, S. Bandiera, F. Edenhofer, S. Pluchino

T13-007C

The extracellular enzyme Sulf 2 controls production of a yet uncharacterized Olig2-expressing glial cell subtype in the developing spinal cord

D. Ohayon, N. Escalas, P. Cochard, B. Glise, C. Danesin, C. Soula

T13-008C

Molecular profiling of adult human neural stem cells in Parkinson's disease

S.M. Burm, M.E. van Strien, O. Basak, J.A. Sluijs, I. Paliukhovic, W.D.J. van de Berg, K.W. Li, E.M. Hol

T13-009C

Mechanisms controlling neurogenic lineage progression – role of bifunctional hydrogels containing laminin-derived IKVAV peptide in promoting neuronal fate and differentiation of neural progenitors

F. Ortega, A. Farrukh, W. Fan, N. Marichal, J. Paez, B. Berninger, A. Del Campo, M. Salierno

T13-010C

Differences of grey and white matter astrocytes in the intact and injured cerebral cortex

N. Mattugini, S. Ohlig, J. Merl-Pham, N. Kannaiyan, S.M. Hauck, M. Rossner, M. Götz

T13-011C

Astrocyte-mediated fate specification of adult neural progenitor cells: a role for NF-κB p50

V. Bortolotto, S. Cvijetic, M. Marcello, E. Ranzato, E. Marengo, P.L. Canonico, M. Grilli

T13-012C

Post-transcriptional RNA regulation in adult neurogenesis and brain homeostasis

C. Rolando, A. Erni, A. Grison, R. Beattie, A. Engler, M. Milo, P.J. Gokhale, T. Wegleiter, S. Jessberger, V. Taylor

T13-013C

Postnatal astrogenesis is critical for sexual maturation

G. Pellegrino, V. Prevot, A. Sharif

T13-014C

Vertebrate enteric glial cells: what the zebrafish can tell us

S. McCallum, T. Heanue, R. Kelsh, K. Kawakami, V. Taylor, L. Bally-Cuif, V. Pachnis

T13-015C

Quinolinic acid-mediated activation of striatal parenchymal astrocytes: dynamics of progenitor lineage progression and phenotyping of newly generated neurons

G. Nato, M. Fogli, A. Fanasca, P. Peretto, A. Buffo, F. Luzzati

T13-016C

Targeting NG2 progenitors and their adult progeny

R. Sanchez-Gonzalez, A. Bribian, M. Figueres-Oñate, L. López-Mascaraque

T13-017C

The extracellular matrix glycoprotein Tenascin-C regulates the behavior of cortical neural stem cells during the neuroepithelial to radial glial transition

M. Patsoni, I. Kazanis, C. ffrench-Constant, A. Faissner, M. May

T14 NEUROIMMUNOLOGY AND NEURO-INFLAMMATION

T14-001A

Prenatal immune challenge dampens demyelination lesion during adulthood

A. Mouihate, H. Al-Hashash, S. Rakhshani-Moghadam, S. Kalakh

T14-002A

Galectin-3 modulates microglia morphology and phenotype after brain ischemia

R. Rahimian, S. Sato, M. Lalancette-Hébert, L.C. Schlichter, S. Lively, J. Kriz

T14-003A

Peripheral treatment with Infliximab prevents glial activation and neuroinflammation and restores cognitive and motor alterations in rats with chronic liver failure

T. Balzano, S. Dadsetan, J. Forteza, A. Agusti, A. Cabrera-Pastor, L. Taoro-Gonzalez, V. Hernandez-Rabaza, B. Gomez-Gimenez, N. Elmili, M. Llansola, V. Felipo

T14-004A

The role of CD137 and CD137L in pathogenesis of multiple sclerosis

H.Y. Wong, H. Schwarz

T14-005A

IKK/NF-κB-dependent satellite glia activation induces spinal cord microglia activation and neuropathic pain after nerve injury

H. Lim, K. Noh, S. Lee, S.J. Lee

T14-006A

Role of microglia in a mouse model of retinal dystrophy

C. Yingdi, E. Sernagor, D. Steel

T14-007A

Probing microglia contributions to cuprizone-induced de- and remyelination

L. Levy, A. Shemer, Y. Wolf, S. Jung

T14-008A

Reciprocal communication between microglia and peripheral macrophages leads to divergent activity and suppression of microglia function

A. Greenhalgh, L. Healy, J. Zarruk Serrano, J. Antel, S. David

T14-009A

Qualitative and quantitative evaluation of binarization algorithms for image analysis of glial cells 3D in ex vivo slice cultures

S. Healy, J. McMahon, P. Owens, P. Dockery, U. FitzGerald

T14-010A

ProMoIJ: a new tool for semi-automatic analysis of cell processes motility

J. Valero, I. Paris, L. Escobar, J.C. Savage, C.-W. Hui, M.-È. Tremblay, A. Sierra

T14-011A

Astrocytic changes in kainate-induced epileptogenesis

J. Müller, P. Bedner, C. Steinhäuser

T14-012A

Toll-like receptor-9 is also expressed by the satellite glial cells of the rat dorsal root ganglion neurons non-associated with injured nerve

P. Dubovy, I. Klusáková, I. Hradilová-Svíženská, M. Joukal

T14-013A

Role of astrocyte activation for blood-brain barrier breakdown after the brain injury

H. Ikeshima-Kataoka, M. Furukawa, S. Inui, M. Imamura, M. Yasui

T14-014A

Microscopy-based siRNA screen of microglia to identify neuroprotective drug targets

V. Neubrand, M. Delgado

T14-015A

Neurosteroidogenesis is recovered by progesterone treatment of experimental autoimmune encephalomyelitis and during spontaneous remyelination in the cuprizone model of demyelination

L. Garay, M.L. Leicaj, M.C. Gonzalez Deniselle, L.A. Pasquini, J.M. Pasquini, A. de Nicola

T14-016A

Perivascular and meningeal macrophages proliferate at blood-brain barrier interfaces in response to transient cerebral ischemia in rats

W.D. Rajan, B. Wojtas, M. Zawadzka, A.M. Planas, B. Kaminska

T14-017A

Pharmacologic antagonism of dopamine receptor D3 attenuates neurodegeneration and motor impairment in a mouse model of Parkinson's disease

D. Elgueta, M.S. Aymerich, F. Contreras, M. Celorrio, E. Rojo-Bustamente, R. Franco, R. Pacheco

T14-018A

IRF8 has a pivotal role in the microglial cell response to sterile nerve injury in the brain

R.D. Xie, N. Villacampa, B. Almolda, G. Manich, B. González, B. Castellano, I.L. Campbell

T14-019A

Distinct phenotypes of microglia in murine models of interleukin-6- or interferon-alpha-mediated cytokinopathies of the CNS

P.K. West, O. Butovsky, I.L. Campbell

T14-020A

The role of P2Y-like receptor GPR34 on microglial phagocytosis

V. Sánchez-Zafra, A. Schulz, A. Sierra

T14-021A

Amelioration of lipocalin 2-mediated astroglial reactivity *in vitro* by means of RNA nanotechnology

J. Smith, A. Braga, J. Verheyen, P. Guo, S. Pluchino

T14-022A

Microglia in post-mortem brain tissue of schizophrenia: normal at first, but different when taking a more closer look

M. Sneeboer, N. Akkerman, A. van der Geest, M. Litjens, D. Macintyre, S.J.M.C. Palmen, R. Kahn, E.M. Hol, L. de Witte

T14-023A

Spinal versus brain microglial and macrophage activation traits determine the differential neuroinflammatory responses and analgesic effect of minocycline in chronic neuropathic pain

L. Tian, Z. Li, H. Wei, S. Piirainen, A. Pertovaara

T14-024A

Myeloid-derived suppressor cell peripheral load is an indicator of myelin/axonal damage in the murine model of multiple sclerosis

C. Melero-Jerez, R. Lebrón-Galán, A. Alonso-Gómez, E. Moñivas, I. Machín, F. de Castro, D. Clemente

T14-025A

Study of the role of cortistatin in retinal neurodegeneration: aging and inflammation

C.P. Falo, F. O'Valle, L. de Lecea, E. González-Rey

T14-026A

Oligodendroglial alpha-synuclein pathology is accompanied by a severe neuroinflammation in multiple system atrophy

A. Hoffmann, B. Ettle, J. Wihan, S. Reiprich, E. Masliah, M.J. Riemenschneider, M. Wegner, J. Winkler

T14-027A

Comparative phenotypic and functional analysis of senescent microglia *in vitro* and aging microglia in the old murine brain *in vivo*

M. Stojiljkovic, C. Schmeer, T. Lajqi, R. Wetzker, R. Bauer, O. Witte

T14-028A

PAMPs induce long-term and dose-dependent adaptive responses in microglia cells in vitro

T. Lajqi, R. Bauer, M. Stojiljkovic, C. Schmeer, O. Witte, R. Wetzker

T14-029A

NOTCH1 signaling in myeloid cells modulates the development of experimental autoimmune encephalomyelitis

P. Tranque, E.M. Monsalve, S. Lopez-Lopez, S. Mellado, M.J.M. Diaz-Guerra, M. Fernandez

T14-030A

Study of the immunoregulatory and neuroprotective effect of cortistatin on demyelination and repair processes of the central nervous system

E. González-Rey, I. Forte-Lago, M. Caro, F. O'Valle, L. de Lecea, V. Ferraz-de-Paula

T14-031A

Human microglia in inflammatory responses, viral reproduction and transmission in Japanese encephalitis virus infection

L. Filgueira, M. Walch, A. Summerfield, N. Lannes

T14-032A

Anti-inflammatory actions of tibolone in murine brain injury models

A. Crespo Castrillo, N. Yanguas Casas, G.E. Barreto, L.M. Garcia-Segura, M.A. Arevalo Arevalo

T14-033A

Sex differences in the phagocytic and migratory capacity of rat microglia

N. Yanguas Casás, A. Crespo Castrillo, M.A. Arevalo, L.M. Garcia Segura

T14-034A

Palmitic acid induces inflammation and cell death in cultured cortical astrocytes

A. Ortiz Rodriguez, E. Acaz-Fonseca, L.M. Garcia-Segura, M.A. Arevalo

T14-035A

The endocannabinoid 2-arachydonoylglycerol promotes remyelination in a primary proggresive model of MS

M. Mecha, A. Feliú, F.J. Carrillo-Salinas, L. Mestre, K. Riecken, D. Gomez-Nicola, C. Guaza

T14-036A

Insulin-like growth factor-1 and angiotensin II in neuroinflammation and aging

A.I. Rodríguez Perez, P. Garrido-Gil, R. Valenzuela-Limiñana, C. Diaz-Ruiz, J. Rodríguez-Pallares, J.L. Labandeira-García

T14-037A

Neurotoxin impairment of microglial function: contribution to neurodegeneration in Parkinson's disease?

N. Rabaneda-Lombarte, E. Xicoy, J. Serratosa, J. Saura, C. Solà

T14-038A

Conditional ablation of myeloid TNF improves functional outcome and decreases lesion size after spinal cord injury in mice

K.L. Lambertsen, M.C. Lund, H.G. Novrup, E.B. Lester, L.H. Jørgensen, S.A. Nedospasov, R. Brambilla, D.G. Ellman

T14-039A

Role of toll like receptor 9 (TLR9) in astroglial function: focus on glutamate transporters

A. Pallottie, A. Ratnayake, L. Ni, R. Heary, S. Elkabes

T14-040A

Protective effect of the oxytocin receptor agonist carbetocine on brain damage induced by fetal growth restriction associated with postnatal inflammation in rat

J. Mairesse, J. Pansiot, C. Demené, H. Pham, M. Zinni, M. Colella, R. Moretti, C. Charriaut-Marlangue, A. Rideau Batista Novais, P. Gressens, M. Tanter, O. Baud

T14-041A

MicroRNA and microglia in a model of neonatal white matter injury induced by inflammation: focus on microRNA 146b-5p

C. Bokobza, E. Boscher, A. Benmamar-Badel, A. Montané, J. van Steenwinckel, P. Gressens

T14-042A

Oncostatin M signaling is essential for robust remyelination

K. Janssens, A. Maheshwari, C. Vandenhaute, T. Struys, I. Lambrichts, V. Baekelandt, P. Stinissen, J. Hendriks, H. Slaets, N. Hellings

T14-043A

Plaque-associated microglia in mice with AD-like pathology show increased and heterogeneous voltage-activated currents

M. Plescher, G. Seifert, P. Bedner, J.N. Hansen, C. Steinhäuser, A. Halle

T14-044A

IFN-γ plays a key role in preventing disease progression in experimental autoimmune encephalomyelitis by modulating myeloid cell function in the CNS

T. Forsthuber, R. Robinson

T14-045A

Progression of inflammatory mediators in the organotypic hippocampal slice model of epileptogenesis

D.M. Magalhães, N. Pereira, A.M. Sebastião, C.A. Valente

T14-046A

Therapeutic value of naltrexone as a glial modulator

B. Vrooman, K. Toljan, D. Agarwal, H. Qureshi

T14-047A

The RNA binding protein HuR promotes the inflammatory phenotype of microglia and is upregulated in microglia of ALS spinal cords

P. Matsye, L. Zheng, Y. Si, S. Kim, W. Luo, D. Crossman, P. Batcher, P. King

T14-048A

Brain TGFb promotes resistance to hypertension via regulating microglial activation

X. Liu, Y. Li, X. Shen, P. Shi

T14-049A

The role of angiotensin AT2-receptor stimulation and IL-10 signaling in an animal model of neuromyelitis optica spectrum disorder

R. Khorooshi, E. Ulrikkaholm Tofte-Hansen, C. Hermansen, R. Montanana Rosell, H. Liska Limberg, N. Asgari, U.M. Steckelings, T. Owens

T14-050A

Pathophysiology and imaging of early memory impairment in multiple sclerosis

V. Planche, A. Panatier, A. Ruet, B. Hiba, P. Coupé, E.-G. Ducourneau, N. Dubourdieu, F. Munsch, M. Deloire, C. Guttmann, V. Dousset, A. Desmedt, B. Brochet, S. Oliet, T. Tourdias

T14-051A This poster has been withdrawn.

T14-052A

Next generation sequencing identifies miR147b as a novel key regulator of interleukin 1 beta-mediated inflammation in human astrocytes

J. van Scheppingen, J.D. Mills, D.W.M. Broekaart, J.J. Anink, F.E. Jansen, W.G. Spliet, J.C. Baayen, A.M. Iyer, E.A. van Vliet, E. Aronica

T14-053A

Choroid plexus trafficking of immune cells towards the rat cochlear nuclei after noise trauma or cochlear destruction

P. Perin, A. Venturino, R. Pizzala

T14-054A

Decreased S100A8/A9 in V30M related familial amyloid polyneuropathy: a possible pathway in misregulation of Schwann cell chemotaxis

J. Moreira, N.P. Gonçalves, M. Saraiva, M.J. Saraiva

T14-055A

Novel myelinogenic phenotype of microglia

A. Wlodarczyk, I. Holtman, N. Yogev, R. Khorooshi, A. Benmamar-Badel, J.J. de Boer-Bergsma, N.A. Martin, I. Kramer, E. Boddeke, A. Waisman, B.J.L. Eggen, T. Owens

T14-056A

ATP-induced IL-1β secretion is selectively impaired in microglia as compared to hematopoietic macrophages

S.M. Burm, E.A. Zuiderwijk-Sick, P.M. Weert, J.J. Bajramovic

T14-057A

Toll-like receptor 4 (TLR4) and triggering receptor expressed on myeloid cells-2 (TREM-2) activation balance astrocyte polarization into a proinflammatory phenotype

G. Rosciszewski, V. Cadena, V. Murta, J. Lukin, A. Villarreal, T. Roger, A.J. Ramos

T14-058A

Dissecting the role of NEMO/NF-κB in astrocytes reacting to injury and inflammation

E. Engelhardt, J. Göbel, H.M. Jahn, M. Bergami

T14-059A

Deregulation of microglial apoptosis alters their functional response to an inflammatory stimulus

D. Gomez-Nicola, K. Askew, V.H. Perry, M.S. Cragg

T14-060A

Inhibition of MyD88 signaling induced alternative activation of microglia and modulation of hippocampal neurogenesis in the young mice

J.-T. Liu, Z. Fan, T.-K. Huang, C.-B. Zhang, F. Kuang

T14-061A

Retinal microglia contralateral to experimental glaucoma in mice exhibited early signs of activation: quantification of processes retraction and reorientation

E. Salobrar-García, R. Gonzalez-Martin, D. Ajoy, B.I. Gallego, R. de Hoz, A.I. Ramírez, B. Rojas, J.J. Salazar, M.P. Villegas-Perez, A. Triviño, J.M. Ramírez

T14-062A

Early microglial activation is detected in mice retina contralateral to experimental glaucoma

R. de Hoz, A.I. Ramírez, B. Rojas, J.J. Salazar, E. Salobrar-García, F.J. Valiente-Soriano, M. Avilés-Trigueros, A. Triviño, J.M. Ramírez

T14-063A

Astrocytic tight junctions control inflammatory CNS lesion pathogenesis

S. Horng, C. Chapouly, A. Therattil, K. Kim, A. Gordon, A. Tadesse Argaw, Y. Hara, J. Mariani, P. Flodby, E. Crandall, Z. Borok, M. Sofroniew, G.R. John

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T14-064A

Lysophosphatidic acid receptor 2 contributes to de-myelination after spinal cord injury by inducing the release of purines in microglial cells

C. Lopez, E. Santos-Nogueira, I. Francos-Quijorna, M. Coll-Miró, J. Chun, R. Lopez-Vales

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T14-065A

Astrocytic junctional adhesion molecule-A promotes CNS inflammatory lesion pathogenesis

C. Chapouly, A. Gordon, A. Therattil, G.R. John, S. Horng

T14-066A

TNF neutralization promotes OPC differentiation in a model of progressive EAE

A. Valentin-Torres, C. Savarin, S. Stohlman, C. Bergmann

T14-067A

Microglia cell type specific NF-κB networks and molecular signatures in the CD11brGFPxTDP43^{G348C} transgenic mouse model for FTLD

S.S. Thammisetty, H. Boutej, J. Kriz

T14-068A

Glial cell changes in the central auditory system through the lifespan of non-human primates

B. Impey, S. Quraishe, E.T. Rogers, S. Funnell, C. Verschuur, T.A. Newman

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T14-069A

Role of HtrA1 in TGFβ signaling and microglia quiescence

I. Akhtar, T. Langmann

T14-070A

The functional outcome of GM-CSF mediated effects on microglia in an *in vitro* model of central nervous system

D. Arseni, C.A. Jones, J.M. Edgar, C. Linington

T14-071A

Characterisation and modulation of TREM2 sheddase site in primary cultures of myeloid cells

P. Thornton, M.J. Deery, G. Fraser, S. Ståhl, E.H. Franssen, B. Gomez Perez-Nievas, L. Nicol, S. Eketjäll, J. Revell, C.A. Jones, A. Billinton, I. Chessell, D.C. Crowther

T14-072A

Maresin 1 promotes inflammatory resolution, neuroprotection and functional neurological recovery after spinal cord injury

I. Francos-Quijorna, E. Santos Nogueira, K. Gronert, A.B. Sullivan, M.A. Kopp, B. Brommer, C.N. Serhan, S. David, J.M. Schwab, R. López Vales

T14-073A

Repeated systemic TNFα challenge in APP/PS1 mice as a model to elucidate the effects of systemic inflammation on Alzheimer's disease pathology

E. Hennessy , D. Healy, J. Dover, C. Murray, C. O'Boyle, C. Cunningham

T14-074A

Loss of the Wnt pathway in microglia drives pro-inflammatory activation leading to perinatal white matter injury

J. van Steenwinckel, A.-L. Schang, M. Krishnan, F. Verdonk, F. Chrétien, A.D. Edwards, H. Hagberg, N. Soussi, B. Fleiss, P. Gressens

T14-075A

A novel model of mechanically induced inflammation in a primary culture using parallel flow shear stress

A. Trotier, L. McNamara, M. Biggs

T14-076A

Bacterial peptidoglycan in MS and EAE brain as a co-factor in demyelinating disease

J. Laman, B.'t Hart, C. Power

T14-077A

Pheripheral inflamation exacerbates neuronal death in the mptp model of Parkinson's disease through microglial activation

I. García-Domínguez, K. Veselá, A. Carrillo-Jiménez, J. García-Revilla, M. Roca-Ceballos, R. Martínez de Pablos, J.L. Venero

T14-078A

Gp130 signalling on astrocytes during cuprizone-induced demyelination

S. Heckers, V. Gudi, T. Skripuletz, M. Stangel

T14-079A

Deficiency of TNFAIP3 (A20) in microglia leads to spontaneous neuroinflammation

A. Mohebiany, A. Moeckl, K. Karram, A. Waisman

T14-080A

Vulnerabilities to inflammatory exacerbation and acute cognitive dysfunction in a mouse model of Alzheimer's disease

A.B. Lopez-Rodriguez, E. Hennessy, C. Murray, N. de Barra, C. Cunningham

T14-081A

Localization of antibody deposition by sterile injury in the brain

M. Thorsen Mørch, S. Forsberg Sørensen, R. Khorooshi, N. Asgari, T. Owens

T14-082A

A novel automated dissociation procedure for efficient recovery and comprehensive detection of immune cells from inflamed brain and spinal cord

S. Reiß, A. Bosio, M. Jungblut

T14-083A

Pulse-modulated 1800 MHz electromagnetic fields affect microglial cell responses triggered by lipopolysaccharide

M. Mallat, J. Lameth, A. Gervais, C. Colin, P. Leveque, D. Arnaud-Cormos, T. Jay, J.-M. Edeline

T14-084A

Effects of simultaneous astrocyte-targeted production of IL-10 and IL-6 on glial reactivity and motor neuron survival after facial nerve axotomy

G. Manich, P. Albareda, M. Recasens, N. Villacampa, I.L. Campbell, B. González, B. Castellano

T14-085A

Allelic series of Csf1r mutant zebrafish microglia reveals Csf1r control of microglia density independent of differentiation and function

N. Oosterhof, L. Kuil, H. van der Linde, W. van Ijcken, T. van Ham

T14-086A

Integrin ligands osteopontin and lactadherin cooperate to modulate microglial phagocytosis, motility and transcriptional programs

B. Kaminska, A. Ellert-Miklaszewska, P. Gajdanowicz, E. Lewczuk, M. Gerigk

T14-087A

Type II monocytes exert regulatory functions in central nervous system during experimental autoimmune encephalomyelitis

D. Häusler, W. Brück, M.S. Weber

T14-088A

Investigation of the NLRP3 inflammasome in microglia and the implications for Alzheimer's disease

R. McManus, M. Heneka

T14-089A

Sulphatide-specific IgM induces a type I interferon-dependent anti-viral response in the CNS

T. Semenoff, V. Schultz, S. Merz, K. Muecklisch, C. Mckimmie, J.M. Edgar, C. Linington

T14-090A

Increased white matter inflammation in aging- and Alzheimer's disease brain

Z. Yin, D. Raj, M. Breur, J. Doorduin, I. Holtman, M. Olah, I.M. Otter, D. van Dam, P. de Deyn, W. Den Dunnen, B. Eggen, S. Amor, E. Boddeke

T14-091A

Identification of suitable reference genes for normalization of real-time PCR in a mouse model of neonatal neuroinflammation

S. Lebon, A.-L. Schang, J. van Steenwinckel, P. Gressens

T14-092A

Neuropathogenic bird schistosome *Trichobilharzia regenti* activates astrocytes and microglia of infected ducks and mice

T. Macháček, V. Krčmářová, M. Majer, H. Dvořáková, L. Panská, J. Bulantová, P. Horák

T14-093A

Establishing a human neural stem cell derived astrocyte-/neuron-culture model to investigate the role of inflammation associated mediators for neuronal damage formation

M. Alisch, J. Kerkering, K. Rosiewicz, V. Siffrin

T14-094A

A link between dysregulation of the plasminogen activation system and neuroinflammation in multiple sclerosis animal models

H. Lebas, A. Fournier, A. Briens, F. Docagne, I. Bardou

T14-095A

The role of CNS-endogenous TLR9 and NOD2 in neuroinflammatory disease in mice

R. Storgaard Dieu, R. Khorooshi, V. Wais, G. Webster, T. Owens

T14-096A

Blood brain barrier- IL-1 signaling drives neuroinflammation

J. Hauptmann, T. Regen, K. Karram, F. Marini, M. Klein, M. Krüger, H. Bindner, T. Bopp, I. Bechmann, A. Waisman

T14-097A

Responses to LPS and α-Synuclein of primary cultures of microglia-like cells derived from adult human monocytes

J.M. Vidal Taboada, C. Belmonte-Mateos, M. Pulido-Salgado, A. Marsal-Cots, G. Aguilar-Pérez, J. Sala-Jarque, N. Rabaneda-Lombarte, J. Serratosa, C. Solà, J. Saura

T14-098A

Role of purinergic receptor P2X4 in experimental autoimmune encephalomyelitis

A. Zabala, N. Vazquez-Villoldo, J. Gejo, B. Rissiek, A. Palomino, A. Pérez-Samartín, E. Capetillo-Zarate, T. Magnus, F. Koch-Nolte, F. Rassendren, C. Matute, M. Domercq

T14-099A

Innate immune responses in human oligodendrocytes depend on maturation state

L. Saito, M.C. Monaco, W. Branton, E. Cohen, E. Major, C. Power

T14-100A

Characterization of the anti-inflammatory and antioxidant mechanism of the new derivative ITH12674

I. Buendia Abaitua, P. Michalska, E. Luengo, C. Fernández-Mendívil, M.G. López, R. León

T14-101A

IL-10-dependent Tr1 cells attenuate astrocyte activation and ameliorate chronic central nervous system inflammation

L. Mayo, A. da Cunha, A. Madi, V. Beynon, J.I. Alvarez, A. Prat, R.A. Sobel, H. Lassmann, F.J. Quintana, H.L. Weiner

T14-102A

In situ morphology of microglia is highly sensitive to the tissue fixation method used

B. Catalin, L. Schlosser, A.T. Balseanu, A. Scheller

T14-103A

Ageing and progressive microgliosis imposes progressive vulnerability to acute cognitive dysfunction upon systemic inflammation.

D. Healy, C. Murray, C. Cunningham

T14-104A

Application of translational profiling method for the molecular characterization of the inflammatory response: divergence of mRNA and protein networks in microglia

H. Boutej, R. Rahimian, S.S. Thammisetty, L.-C. Béland, M. Lalancette-Hébert, J. Kriz

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T14-105A

Purinergic receptor P2Y12: a potential target for PET imaging of neuroinflammation in multiple sclerosis and EAE

W. Beaino, B. Janssen, G. Kooij, S. van der Pol, A.D. Windhorst, H.E. de Vries

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T14-106A

Lysophosphatidic acid (LPA) controls the migratory and inflammatory response of microglia via the LPAR5-PKDs axis

J. Plastira, E. Bernhart, B. Zucol, W. Graier, W. Sattler

T14-107A

Interaction between microglia and T cells in a model of brain inflammation in zebrafish

G. Morisse, J. Mazzolini, D. Sieger, A. Astier

T14-108A

MerTK mediated regulation of myelin phagocytosis in multiple sclerosis patient monocyte-derived-macrophages

L. Healy, S.-Y. Won, J.H. Jang, Y.H. Lin, S. Aljarallah, A. Bar-Or, J. Antel

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T14-109A

Incidence of inflammatory features in epileptic-like organotypic slices – a tool for drug screening

D.M. Magalhães, N. Pereira, D.M. Rombo, A.M. Sebastião, C.A. Valente

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T14-110A

Selective deletion of AMPA receptors on oligodendrocytes prevents axonal injury in autoimmune demyelination

K. Evonuk, R. Doyle, C. Moseley, H. Monyer, T. Desilva

T14-111A

Selective manipulation of microglia by chemogenetics: Implications for energy homeostasis and obesity pathogenesis

A.C. Wyse-Jackson, M.D. Dorfman, J.P. Thaler

T14-112A

***In vitro* studies on the interaction of human regulatory T cells with oligodendrocyte-lineage cells**

G. Eleftheriadis, R.C. Mc Pherson, D. Magnani, S.M. Anderton, S. Chandran, D.C. Fitzgerald

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T14-113A

The ecto-5'-nucleotidase (CD73)-derived adenosine signaling regulates microglia-trigerred neuroinflammation and modulates neuronal loss in a Parkinson's disease model

Z. Gao

T14-114A

A nutraceutical approach as adjuvant therapy for the prevention and treatment of trigeminal pain: role of microglia

S. Ceruti, G. Magni, D. Lecca, A. Marinelli, D. Riccio, G.T. Coppolino, F. Tomay, M.P. Abbracchio, C. Tonelli, K. Petroni

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T14-115A

The effect of TNF-blockade on T cell-enhanced microglial clearance of myelin debris

K.T. Jensen, L.I. Davidsen, M. Grebing, B.H. Clausen, K.L. Lambertsen, H.H. Nielsen, B. Finsen

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T14-116A

Exosomes derived from microglia exposed to elevated pressure elicit a pro-inflammatory response in naive cells

I.D. Aires, T. Ribeiro Rodrigues, D. Almeida, A.F. Ambrósio, H. Girão, A.R. Santiago

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T14-117A

CXCL16 as mediator of microglia polarization

F. Lepore, C. Limatola, F. Trettel

T14-118A

Purinergic signaling through P1 and P2 receptors in enteric glial cells during inflammation

R. Schneider, A. Miesen, M. Lysson, B. Schneiker, F.L. Christofi, J.C. Kalff, S. Wehner

T14-119A

Assessing the human glial response to pro-inflammatory immune-mediators produced during multiple sclerosis

R. Mcpherson, G. Eleftheriadis, D. Magnani, K. Burr, S. Colville, S.M. Anderton, S. Chandran

T14-120A

An *in vitro* 3D model to study the cross-talk between enteric glia cells and the intestinal epithelial organoids

S.H. Chng, A.C.B. Frauches Oliveira, R. Lasrado, L. Meran, V. Li, V. Pachnis

T14-121A

Abrogation of microglial TGF-beta signalling results in distinct microglia pheontypes

T. Zöller, A. Schneider, C. Kleimeyer, P.S. Potru, M. Prinz, B. Spittau

T14-122A

Affinity-dependent modulation of T cell responses by DHODH inhibition

M. Lindner, M. Eschborn, M. Liebmann, V. Posevitz, B. Torres Garrido, J. Breuer, N. Schwab, P. Ehling, K. Busch, S. Meuth, D. Zehn, H. Wiendl, L. Klotz

T14-123A This poster has been withdrawn.

T14-124A

The role of $P2Y_6$ receptor signalling in inflammatory neuron loss in models of Alzheimer's and Parkinson's disease

S. Milde, A. Vilalta, G.C. Brown

T14-125A

Differential expression of KIR4.1 in rodents, pig and human brain

G.K. Tanti, R. Srivastava, S.R. Kalluri, M. Herwerth, C. Nowak, B. Hemmer

T14-126A

Heme-oxygenase I and PGC-1α regulate mitochondrial biogenesis via microglial activation of alpha7 nicotinic acetylcholine receptors using PNU282987

C. Fernández-Mendívil, E. Navarro, L. Gonzalez-Lafuente, I. Pérez-Liébana, I. Buendia, E. López-Bernardo, C. Sánchez-Ramos, E. Luengo, I. Prieto, A. Cuadrado, J. Satrustegui, S. Cadenas, M. Monsalve, M.G. López

T14-127A

Fate mapping analysis reveals the inflammation-related plasticity of microglia in experimental autoimmune encephalomyelitis

T. Crowley, K. Rosiewicz, S.A. Wolf, H. Kettenmann, V. Siffrin

T14-128A

CD300f immunoreceptor deficiency-induced depressive and obsessive compulsive behaviours and exacerbated microglial activation after diverse inflammatory stimuli

M.L. Negro-Demontel, N. Lago, F. Kaufmann, D. Alí, A. Cawen, R. López-Valez, J. Sayós, H. Peluffo

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T14-129A

The immune-regulatory role of human primary repair and tumor-associated Schwann cells

S. Taschner-Mandl, T. Weiss, J. Berner, A. Bileck, F. Rifatbegovic, R. Windhager, H. Kitzinger, C.-H. Tzou, I.A. Ambros, C. Gerner, A. Dohnal, P.F. Ambros

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T14-130A

Retinal microglia response after peripheral nerve injury

M. Avilés-Trigueros, Y. Caja-Matas, F.M. Nadal-Nicolás, F.J. Valiente-Soriano, M. Vidal-Sanz

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T14-131A

Assessing toll-like receptor signalling in Multiple Sclerosis both centrally and peripherally

J.M. Fitzpatrick, I. Sweeney, N. Boyle, R. Magee, S.-M. Yap, T. Hogan, Y. Nolan, O. O'Toole, W. Hind, E. Downer

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T14-132A

The role of NG2-expressing cells during neuroinflammation

M. Kitic, K. Karram, A. Waisman

T14-133A

Astrocyte-targeted production of Interleukin-10 and Interleukin-6 alter the physiological microglial and astroglial responses associated to aging

P. Sanchez-Molina, B. Almolda, B. González, B. Castellano

T14-134A

Novel *in vitro* method for modelling resting and activated astrocytes

J. Verheyen, J. Smith, A. Braga, L. Peruzzotti-Jametti, S. Rizzi, F. Edenhofer, S. Pluchino

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T14-135A

Repair mechanisms during demyelination

L. Taylor, K. Puranam, A. Patel, N. Muthusamy, G. Matsushima

T14-136A

Influence of type I IFN signalling on anti-MOG-mediated demyelination

T. Owens, C. Berg, R. Khorooshi, N. Asgari

T14-137A

Developmental changes in microglia in GFAP-targeted IL-6 and GFAP-targeted IL-10 transgenic mice

B. Almolda, K. Shrivastava, B. González, B. Castellano

T14-138A

CD200R1 blockade impairs functional recovery after spinal cord injury

N. Lago, B. Pannunzio, J. Amo-Aparicio, R. López-Vales, H. Peluffo

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T14-139A

Neuroinflammation activates an axonal degeneration program in mice carrying human *PLP1* mutations

J. Groh, L. Papp, R. Martini

T14-140A

The role of the B cell in the pathogenesis of multiple sclerosis

J. Roodselaar, E. Urich, D.C. Anthony

T14-141A

The neurotransmitter dopamine inhibits glutamate release evoked by α-Synuclein aggregates in microglial cells

P.P. Michel, M. Dos-Santos Pereira, L. Acuña, S. Hamadat, J. Rocca, F. González, R.N. Chehín, J. Sepúlveda Diaz, E. Del Bel, R. Raisman-Vozari

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T14-142A

The contribution of the acute phase response to the pathogenesis of relapse in chronic-relapsing experimental autoimmune encephalitis models of multiple sclerosis

S. Mardiguian, E. Ladds, S. Campbell, D.C. Anthony

T14-143A

Inflammasome expression in CNS lesions and the effect of inflammasome-derived IL-1beta and IL-18 on glial cells in vitro

S. Fleville, N. Boylan, D. Crooks, M. Dittmer, L. Roets, D.C. Fitzgerald, Y. Dombrowski

T14-144A

Galectin-3 acts as an early alarmin orchestrating brain immune response and promoting neurodegeneration after traumatic brain injury

J.L. Venero, P.K. Yip, A. Carrillo-Jiménez, P. King, A. Vilalta, K. Nomura, C.C. Chau, A.M.S. Egerton, Z.-H. Liu, A.J. Shetty, J.L. Tremoleda, M. Davies, T. Deierborg, J.V. Priestley, G.C. Brown, A.T. Michael-Titus, M.A. Burguillos

T15 NEUROVASCULAR INTERACTIONS

T15-001B

From mice to men: astrocyte morphology is confined by functional boundaries in the mammalian cortex

R. Eilam, R. Aharoni, R. Arnon, R. Malach

T15-002B

Unravelling the impact of methylphenidate on neurogliovascular function: implications for memory performance

A.P. Silva, V. Coelho-Santos, F.L. Cardoso, R.A. Leitão, A. Magalhães, M. Ferreira-Teixeira, C. Gomes, M. Rito, M. Barbosa, C. Fontes-Ribeiro

T15-003B

Endothelial dysfunction drives white matter vulnerability in small vessel disease

R. Rajani, S. Ruigrok, D. Graham, S. Harris, B. Verhaaren, M. Fornage, S. Seshadri, S. Atanur, A. Dominiczak, C. Smith, J. Wardlaw, A. Williams

T15-004B

Exendin-4, a glucagon-like peptide 1 analog, prevents the increase in blood-retinal barrier permeability and microglia activation in a type 1 diabetes animal model

A. Gonçalves, M.I. Barros, J. Martins, C.A. Gomes, C. Fontes-Ribeiro, A.F. Ambrósio, R. Fernandes

T15-005B

Microglia promote the functional maturation of blood-brain barrier by regulating cytokine/chemokine concentrations

Y. Shigemoto-Mogami, H. Kazue, K. Sato

T15-006B

Effects of extracellular vesicles from vascular endothelial cells on survival, proliferation, and motility of oligodendrocyte precursor cells

Y. Ishizaki, M. Kurachi, S. Osawa, H. Shimauchi-Ohtaki, H. Yamamoto, M. Naruse, K. Shibasaki

T15-007B

Neurogliovascular unit dysfunction induced by methamphetamine: protective role of parthenolide

R.A. Leitao, F.L. Cardoso, V. Coelho-Santos, C. Fontes-Ribeiro , A.P. Silva

T15-008B

Astrocytes role is critical to induce endothelial sensitivity to beta amyloid in an in vitro blood brain barrier model

S. Spampinato, S. Merlo, Y. Sano, T. Kanda, M.A. Sortino

T15-009B

The role of microglia in microvascular calcification in the brain

A. Keller, Y. Zarb, B. Johannson, C. Betsholtz, M. Greter, M. Colonna

T15-010B

Translation in astrocyte distal processes sets molecular heterogeneity at the gliovascular interface

A.-C. Boulay, B. Saubaméa, M. Cohen-Salmon

T15-011B

Cadmium cellular signaling in the impairment of the blood brain barrier: study in a rat brain endothelial cell line

J.J.V. Branca, G. Morucci, M. Maresca, C. Ghelardini, M. Gulisano, L. di Cesare Mannelli, A. Pacini

T15-012B

Hypercaloric environment triggers chronic remodeling of the hypothalamic vasculature via astroglial HIF1α and VEGF signaling

T. Gruber, C. García-Cáceres, O. Lê Thuc, B. Legutko, T.L. Horvath, M.H. Tschöp

T15-013B

AAV-mediated gene delivery in dp71-null mouse model and blood brain barrier permeability assessment

O. Vacca, M. Belmaati-Cherkaoui, C. Sebrié, X. Guillonneau, D. Dalkara, C. Vaillend

T15-014B

Aquaporin-4 channel distribution and brain water homeostasis in mice lacking dystrophin Dp71

M. Belmaati-Cherkaoui, O. Vacca, C. Sebrié, R. Helleringer, M. Galante, C. Vaillend

T16 REGENERATION AND REPAIR

T16-001C

Effect of hyaluronic acid hydogel with lithium on sciatic nerve defects

I. Dag, E. Kocman, T. Sengel, E. Soztutar, M. Canbek

T16-002C

Parvalbumin-expressing ependymal cells in rostral lateral ventricle wall adhesions contribute to aging-related ventricle stenosis in mice

V. Szabolcsi

T16-003C

The human repair Schwann cell phenotype – OMIC analyses identified novel proteins and functions involved in nerve regeneration

T. Weiss, S. Taschner-Mandl, A. Bileck, A. Slany, F. Rifatbegovic, H. Dodig, C. Frech, M. Kauer, R. Windhager, H. Kitzinger, C.-H. Tzou, C. Gerner, P.F. Ambros, I. Ambros

T16-004C

Severe experimental autoimmune encephalomyelitis (EAE) is ameliorated by human olfactory-derived mesenchymal stromal cell transplantation

S.L. Lindsay, D.E. Mcelroy, C.S. Goodyear, S.C. Barnett

T16-005C

Grey matter demyelination and synaptopathy in multiple sclerosis

L. Zoupi, A.R. Dirkson, S. Sekizar, C. Smith, T. Spires-Jones, A. Williams

T16-006C

Role of Wnt antagonist SFRP4 as a modulator of neuroregenerative properties of olfactory ensheathing glia (OEG) immortalized cell lines

M. Portela, D. Simón, M.C. Turpin, J. Sierra, M.T. Moreno-Flores

T16-007C
The role of oligodendroglia in regeneration after spinal cord injury in zebrafish
M.M. Reimer

T16-008C
Oligodendroglial regeneration and functional recovery upon spinal cord lesion in zebrafish
V. Tsata, M.M. Reimer

T16-009C
In vitro focal demyelination in the mouse central nervous system
S. Sekizar, L. Zoupi, B. Newland, A. Williams

T16-010C
Changes in microglia extracellular matrix contribute to age-associated decline in CNS remyelination
R. Baror, R.J.M. Franklin

T16-011C
Intrinsic changes in the proliferative program limit astrocyte homeostasis in the aged post-traumatic murine cerebral cortex
G. Heimann, L. Lange Canhos, J. Frik, G. Jäger, M. Götz, S. Sirko

T16-012C
Grb2-associated binder-1 and -2 are essential scaffolding proteins for peripheral nerve repair
Y.K. Shin, H.S. Park, S.Y. Jang, S.H. Yun, Y.Y. Choi, B.-A. Yoon, Y.R. Jo, S.Y. Park, P. Min Gyoung, J.I. Park, H.T. Park

T16-013C
Control of oligodendrocyte plasticity by histone demethylases after spinal cord injury
M. Duman, C. Jacob

T16-014C
A functional analysis of nanotopographically modified platinum Iridium microelectrodes
A. Kelly, G. O'Connor, M. Biggs

T16-015C
Identification of the pro-regenerative microglia and macrophage transcriptomes
C. Davies, V. Miron

T16-016C

Reprogramming adult SVZ-derived neuroblasts into oligodendrocytes enhances remyelination in the adult brain

B. El Waly, M. Cayre, P. Durbec

T16-017C

Do endogenous neural stem cells contribute to myelin repair through immunomodulation?

B. Brousse, P. Durbec, M. Cayre

T16-018C

Remyelination in germ-free mice

C. McMurran, O. Zidon, D.C. Fitzgerald, C.A. Jones, R.J.M. Franklin

T16-019C

Repair Schwann cells are up to 3 fold longer than Schwann cells in uninjured nerves, and often form long, parallel processes

J.A. Gomez-Sanchez, K. Pilch, M. van der Lans, R. Mirsky, K.R. Jessen

T16-020C

MiR-145-5p targets MYRF in oligodendrocytes and stunts their differentiation – insights into the inhibitory microenvironment of the progressive multiple sclerosis lesion

S. Kornfeld, S. Bonin, R. Kothary

T16-021C

Perivascular remodeling of astrocytic ER and mitochondrial networks following brain injury

J. Göbel, A. Ghanem, E. Motori, H.M. Jahn, G. Wani, K.-K. Conzelmann, M. Bergami

T16-022C

Central nervous system remyelination is driven by microglia necroptosis and repopulation

A. Lloyd

T16-023C

Mature oligodendrocytes bordering demyelinating lesions restrict demyelination and favor myelin repair via heparan sulphate production

M. Macchi, C. Zimmer, E. Peeva, B. El Waly, B. Brousse, F. Kiefer, K. Grobe, A. Williams, M. Cayre, P. Durbec

T16-024C

Single-cell and large-scale analysis of myelinating cell plasticity using in vitro models of PNS and CNS lesion

A. Vaquié, A. Sauvain, B. Egger, N.L. Jeon, L. Falquet, F. Meyenhofer, C. Lamy, S. Ruff, C. Jacob

T16-025C

CXCL12a/SDF-1 from perisynaptic Schwann cells promotes regeneration after motor axon terminal injury

S. Negro, F. Lessi, E. Duregotti, P. Aretini, M. la Ferla, S. Franceschi, M. Menicagli, M. Pirazzini, C.M. Mazzanti, M. Rigoni, C. Montecucco

T16-026C

Manipulating microglial functional phenotypes rescues white matter pathology following perinatal brain injury

G. Ireland, R. Holloway, V. Miron

T16-027C

Oligodendrocytes and remyelination after injury of the adult zebrafish spinal cord

V. Kroehne, M.M. Reimer

T16-028C

The regulation of oligodendrocyte precursor cells in development of the zebrafish spinal cord

C. Hoppe, V. Kroehne, V. Tsata, C. Froeb, M.M. Reimer

T16-029C

Acute neuroinflammation to rebuild a brain: insights from zebrafish

I. Bollaerts, J. van Houcke, A. Beckers, S. Vanhunsel, K. Lemmens, L. de Groef, L. Moons

T16-030C

Neuroinflammation as a driving force of dendritic shrinkage and axonal regeneration: MMP-2 as possible modulator

L. Andries, M. Salinas-Navarro, L. de Groef, L. Moons

T16-031C

Regenerating nerves with fat: harnessing the differentiation potential of adipose derived stem cells

A. Faroni, S. Wan, J. Gough, A.J. Reid

T16-032C

The relationship between Schwann cell c-Jun and regeneration failures due to ageing and long-term injury

L.J. Wagstaff, J.A. Gomez-Sanchez, R. Mirsky, K.R. Jessen

T16-033C

microRNA-124 drives reprogramming of astrocytes towards the neuronal lineage *in vivo* in a mouse model of brain injury

P.N. Koutsoudaki, E. Papadimitriou, D. Thomaidou

T16-034C

Anti-proliferative and anti-migratory effects are mediated by M2 muscarinic receptor in Schwann-like cells induced from adipose mesenchymal stem cells: implication in nerve regeneration

R. Piovesana, A. Faroni, V. Magnaghi, A.J. Reid, A.M. Tata

T16-035C

Fate mapping of PDGFRα-, Olig2-, P0-, and SMA-positive cells after contusion spinal cord injury in mice

P. Assinck, G.J. Duncan, J. Plemel, M. Lee, M. Stykel, J.A. Stratton, J. Liu, J. Biernaskie, D. Bergles, W. Tetzlaff

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T16-036C

Attenuation of pericyte-derived scarring promotes axonal regeneration and functional recovery following spinal cord injury

D.O. Dias, H. Kim, D. Holl, B.W. Solnestam, J. Lundeberg, M. Carlén, J. Frisén, C. Göritz

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T16-037C

Lecithin therapy imroves disease progression in a rat model of Charcot Marie Tooth disease 1A

R. Fledrich, T. Abdelaal, L. Rasch, B. Britta, R. Vidal, S. Bonn, T. Prukop, R.M. Stassart, K.-A. Nave, M.W. Sereda

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T16-038C

Using in *vitro* models of spinal cord injury to screen glycomolecules as novel compounds for CNS repair

M.A. McGrath, G. McCanney, S.E. Guimond, J.E. Turnbull, S.C. Barnett

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T16-039C

Motile axial and peripheral lamellipodia on Schwann cells regulate cell-cell contact and phagocytosis

J. Tello Velasquez, J.A. St John, L. Nazareth, J.A.K. Ekberg

T16-040C

Scaffolding the spinal cord: a novel strategy towards CNS repair

S. Hosseinzadeh, D.A. Wellings, J.M. Edgar, M. Riehle, S.C. Barnett

T16-041C

Dysregulation of the GPR17 receptor in neuroinflammatory diseases: implications for remyelination in multiple sclerosis

D. Lecca, G.T. Coppolino, D. Marangon, M. Fumagalli, C. Parravicini, R. Magliozzi, L. Dimou, R. Furlan, M.P. Abbracchio

T16-042C

Milking the postnatal brain neural stem cell niche: a method for isolating endogenous neural stem and progenitor cells from the cerebrospinal fluid

F. McClenahan, A. Arampatzis, R. Rasool, R.J.M. Franklin, I. Kazanis

T16-043C

Introduction of the minimal spinal cord injury model as the appropriate tool for testing the regenerative potential of spinal cord in young and adult rodents

J. Ševc, A. Alexovič Matiašová, Z. Gombalová, J. Košuth, Z. Daxnerová

T16-044C

Effects of D-aspartate on oligodendrocytes during differentiation, demyelination and remyelination processes

V. de Rosa, A. Secondo, A. Pannaccione, R. Ciccone, L. Formisano, N. Guida, R. Crispino, A. D'aniello, R. Polishchuk, L. Annunziato, F. Boscia

T16-045C

PAR1 activation induces the release by Schwann cells of factors promoting cell survival and neuritogenesis

V. Ciraci, E. Pompili, V. Correani, B. Maras, M.E. Schininà, M. Artico, L. Fumagalli, C. Fabrizi

T16-046C

Pericytes promote the generation of oligodendrocytes during remyelination

A. Guzman, S. Lange, M.E. Silva, G.A. Gonzalez, H. Tempfer, P. van Wijngaarden, C. Zhao, P. Rotheneichner, A. Trost, A. O'Sullivan, S. Couillard-Despres, L. Bieler, O. Errea, M.A. Mäe, J. Andrae, L. He, A. Keller, C. Betsholtz, L. Aigner, R.J.M. Franklin, F.J. Rivera

T16-047C

Donor macrophages and remyelination in metachromatic leukodystrophy

N. Wolf, A. Westerveld, D. van Rappard, M. Breur, A. Vanderver, M.S. van der Knaap, J.J. Boelens, M. Bugiani

T16-048C

Extracellular vesicles released from microglia-conditioned with mesenchymal stem cells positively regulate oligodendroglial progenitors proliferation in response to focal myelin lesion

R. Parolisi, M. Lombardi, M. Fumagalli, E. Bonfanti, E. Boda, N. Keplero de Rosbo, A. Uccelli, C. Verderio, A. Buffo

T16-049C

Region-specific reaction of glial cells in the brain parenchyma of adult mice following spinal cord injury

M. Li, F. Hollunder, K. Loy, F. Bareyre, S. Sirko

T16-050C

Modulating glutamate signalling to enhance myelin regeneration

K. Volbracht, M. Kovacs, A. Denizot, H. Gautier, R.T. Karadottir

T16-051C

Multiple cellular targets of the neuroprotectant BHDPC in autoimmune mediated CNS demyelination

C. Zhao, D. Ma, M. Yonetani, C.-M. Chong, C.-W. Li, L. Peruzzotti-Jametti, B. Balzarotti, L. Wang, Z. Wu, Y. Zheng, S. Pluchino, R.J.M. Franklin, S.M. Lee

T16-052C

An improved 3D hydrogel culture model for glial scarring

K. Koss, M. Churchward, A. Toossi, V. Mushawar, K. Todd

T17 TRANSMITTER RECEPTORS, ION CHANNELS AND GAP JUNCTIONS

T17-001B

TRPA1 channels control oligodendrocyte internodal potassium conductance

N. Hamilton-Whitaker, K. Kolodziejczyk, E. Kougioumtizidou, D. Attwell

T17-002B

Connexins in neuromyelitis optica: a link between astrocytopathy and demyelination?

C. Richard, A. Ruiz, S. Cavagna, S. Vukusic, J.-F. Ghersi-Egea, P. Giraudon, R. Marignier

T17-003B

A novel mouse models to study the localization and function of the P2X7 receptor *in vivo*

J. Zhang, R. Stocklauser, B. Rissiek, K. Kaczmarek-Hajek, M. Alves, T. Engel, A. Nicke

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T17-004B

MLC1/GlialCAM indirect modulation of volume-regulated anion channels formed by LRRC8 heteromers

X. Elorza-Vidal, S. Sirisi, H. Gaitán-Peñas, C. Perez-Rius, M. Armand-Ugon, V. Nunes, X. Gasull, R. Estevez

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T17-005B

Deletion of Cav1.2 and Cav1.3 genes in NG2 glia induces NMDA-dependent LTD deficiency

N. Zhao, F. Kirchhoff

T17-006B

Gap junction blockade increases neural precursor differentiation to astrocytes *in vitro* and after implantation in the lesioned brain

E.R. Matarredona, R. Talaverón, V. Gálvez, A.M. Pastor

T17-007B

Glutamate receptors in NG2 glial cells: gene profiling and functional changes after ischemic brain injury

E. Waloschkova, M. Valny, L. Valihrach, M. Anderova

T17-008B

Quantal properties of glutamate release at axon – OPC synapses in the corpus callosum

B. Nagy, B. Kula, T.-J. Chen, M. Kukley

T17-009B

The gap junction supramolecular nexus determines location and mobility of other glial membrane and cytoplasmic components

R. Stout, D. Spray

T17-010B

The double-edged role of Pannexin1 channels

E. Scemes, J. Veliskova

T17-011B

The lactate receptor HCAR1 is not localised in microglia

S. van Den Berg, C.J. Sogn, L.H. Bergersen, V. Gundersen

T17-012B

Dynamic expression of Kir4.1 in cochlear glial cells during auditory nerve maturation

K. Smith, P. Murphy, D. Jagger

T17-013B

Astrocytic expression of piezo-1 under LPS and psychosine treatment

M. Velasco-Estevez, K. Dev, G.K. Sheridan

T17-014B

Altered post-Golgi processing of astrocytic connexins in AQP4 knockout mice

N. Skauli, S. Katoozi, S. Rahmani, M. Amiry-Moghaddam

T17-015B

Identification of oligodendroglial secreted factors inducing nodal protein clustering in the central nervous system

A.-L. Dubessy, Q. Rappeneau, S. Ou, E. Mazuir, M. Fitzgibbon, M. Fleming, R. Krauss, B. Ranscht, A. Desmazières, B. Zalc, C. Lubetzki, N. Sol-Foulon

T17-016B

Potassium channels in dorsal horn microglial cells after spared nerve injury

A.-F. Deftu, C. Gattlen, V. Ristoiu, I. Decosterd, M.-R. Suter

T17-017B

Glutamate receptor involvement in neuron-astrocyte interaction in astrocytes of the mouse olfactory bulb

D. Droste, L. Seddar, G. Seifert, C. Steinhäuser, C. Lohr

T17-018B

Novel features of aquaporin-4 and TRPV4 channels in cell volume regulation and calcium signalling

C.D. Gargano, M.G. Mola, A. Cibelli, A. Frigeri, M. Svelto, G.P. Nicchia

T17-019B

Intrinsic mechanisms of nodes of Ranvier formation in the central nervous system

M. Thetiot, S. Freeman, T. Roux, A.-L. Dubessy, N. Sol-Foulon, C. Lubetzki, A. Desmazières

T18 TROPHIC FACTORS

T18-001A

S100B secretion is mediated by Ca^{2+} from endoplasmic reticulum: a study using DMSO as a tool for intracellular Ca^{2+} mobilization

M. Concli Leite, F. Galland, M.C. Guerra, L. Rodrigues, P. Monteforte, H. Hirata, C. Gottfried, S. Smaili, C.-A. Gonçalves

T18-002A

Ketamine inhibits exocytosis and the release of astroglial brain-derived neurotrophic factor from a single vesicle

M. Stenovec, E. Lasič, M. Božić, S. Trkov Bobnar, R.F. Stout Jr., V. Grubišić, V. Parpura, R. Zorec

T18-003A

Lesion development in a rat model of fibroblast growth factor 9 overexpression: implications for multiple sclerosis

D.E. Mcelroy, C. Wrsoz, C. Stadelmann, C. Linington

T18-004A

Modulation of extracellular signal-related kinase, cyclin D1, glial fibrillary acidic protein, and vimentin expression in estradiol-pretreated astrocyte cultures treated with competence and progression growth factors

C. Giallongo, V. Bramanti, S. Grasso, G. Camiolo, C.D. Anfuso, G. Lupo, M. Viola, G. Li Volti, R. Avola, D. Tibullo

T19 TUMOURS

T19-001C

Role of *Emx2* in the treatment of glioblastoma multiforme

J. Zucco, C. Falcone, A. Daga, G. Leanza, A. Mallamaci

T19-002C

Role of AMP-activated protein kinase (AMPK) in the modulation of glutamate transporters in glioma cells

I. Belo Do Nascimento, V. Joris, E. Hermans

T19-003C

Water channel aquaporin4 at the healthy and impaired blood-brain barrier

P. Fallier-Becker, S. Noell, M. Nieser, U. Wenzel, R. Ritz

T19-004C

Investigation of *in vitro* and *in vivo* potential of *Phoneutria nigriventer* spider venom against human glioma

C. Rapôso, A.P. Bonfanti, N. Barreto, R. Thomé, A.L. Bombeiro, E. Kalapothakis, L. Verinaud, M.A. Cruz-Höfling

T19-005C

A cell-penetrating peptide based on connexin43 reduces glucose uptake selectively in human glioma stem cells

S. Gutiérrez Pelaz, E. Criado Moronati, J.M. Medina, A. Tabernero

T19-006C

The role of STAT6 in mitochondrial homeostasis in glioma

H. Kim, S.J. Park, I. Jou

T19-007C

A cell-penetrating peptide based on the connexin43-Src interacting sequence reduces patient-derived glioma stem cell migration, invasion and survival through Src, PTEN and FAK

M. Jaraíz-Rodríguez, M.D. Tabernero, M. González-Tablas, A. Otero, A. Orfao, J.M. Medina, A. Tabernero

T19-008C

The transcriptional repressor Cic, frequently mutated in oligodendrogliomas, regulates oligodendrocyte differentiation

V. Gleize, H. Hmidan, J. Lerond, G. Gauchotte, C. Parras, M. Sanson, E. Huillard

T19-009C

The role of microglia during early brain malignancies

K. Chia, D. Sieger

T19-010C

The RNA-binding protein HuR is a master regulator of malignant peripheral nerve sheath tumourigenesis

M. Iruarrizaga-Lejarreta, E. Perez-Andres, M. Palomo Irigoyen, D. Medrano, M. Varela-Rey, A. Woodhoo

T19-011C

The impact of the brain microenvironment on microglia polarization at early stages of glioblastoma formation

J. Mazzolini, D. Sieger

T19-012C
Recalcitrant tumours require powerful medicine: a comparison of the potency of immunotoxins and an antibody:drug conjugate to kill glioma stem cells
P. Wookey, S. Furness, A. Kourakis, R. Gilabert-Oriol, D. Hare

T19-013C
Slow proliferating glioblastoma stem cells depend on lipid metabolism and mitochondrial function
F. Siebzehnrubl, L. Hoang-Minh, M. Schmoll, K. Amin, K. Dajac, A. Vuong, J. Huang, C. Yang, T. Garrett, M. Sarkisian, B. Reynolds, L. Deleyrolle

T19-014C
The role of extracellular microRNAs as activators of glioma-associated microglia/brain macrophages
A. Buonfiglioli, S.A. Wolf, H. Kettenmann, S. Lehnardt

T19-015C
Toll-like receptor expressions in human astrocytomas
I. Moretti, T. Galatro, S. Oba-Shinjo, S. Marie

T19-016C
Foci of tumoral heterogeneity within IDH1 mutated low grade glioma in adults
N. Leventoux, S. Azar, M. Augustus, B. Rothhut, H. Duffau, J.-P. Hugnot

T19-017C
Cross interaction between M2 muscarinic receptor and Notch1/EGFR pathway in glioblastoma cancer stem cells: implication in glioma cell proliferation
A.M. Tata, I. Cristofaro, F. Alessandrini, Z. Spinello, M. Fiore, L. Conti

T19-018C
A zebrafish live imaging model reveals differential responses of microglia toward glioblastoma cells in vivo
L. Hamilton, K. Astell, G. Velikova, D. Sieger

T19-019C
Voltage gated potassium channels as therapeutic target for glioma
M. Catalano, A. Grimaldi, G. D'Alessandro, C. Limatola

T19-020C
Registration of the field potentials at glioma model in vivo
K. Yashin, A. Lebedeva, T. Mishchenko, M. Mishchenko, M. Vedunova, I. Medyanik, V. Kazantsev

T19-021C

Live cell imaging of cell-cell interactions during early stages of reactive gliosis

B. Gupta, C. Hogan, F. Siebzehnrubl

T19-022C

Detection of orthogonal arrays of particles in explant cultures of human glioblastoma using freeze fracture technique

S. Mitrovic, H. Wolburg, R. Ritz, S. Noell, P. Fallier-Becker

T19-023C

Aquaproin1 mediated tumor associated microglia/macrophages polarization in gliomas

F. Hu, Y. Huang, H. Zhang, K. Shu, T. Lei

T19-024C

Loss of typical orthogonal arrays of particles in astrocytomas correlates with malignancy

U. Wenzel, S. Noell, R. Ritz, P. Fallier-Becker

Notes

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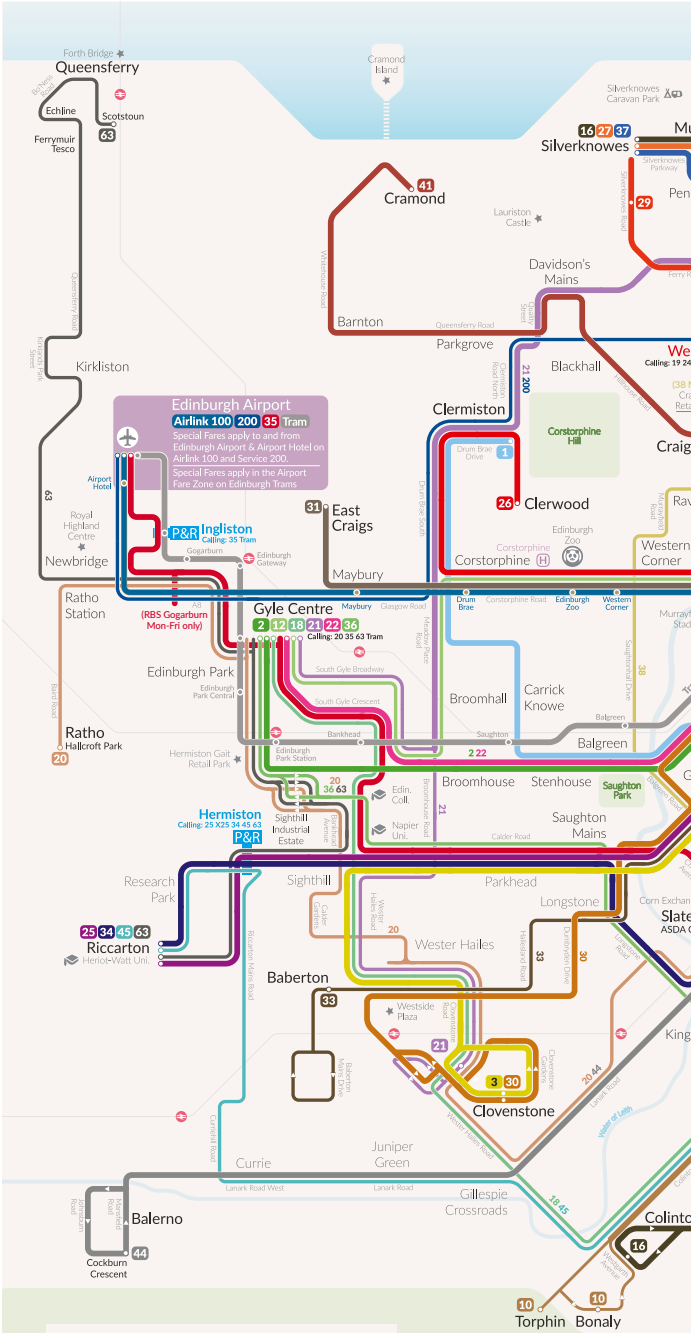
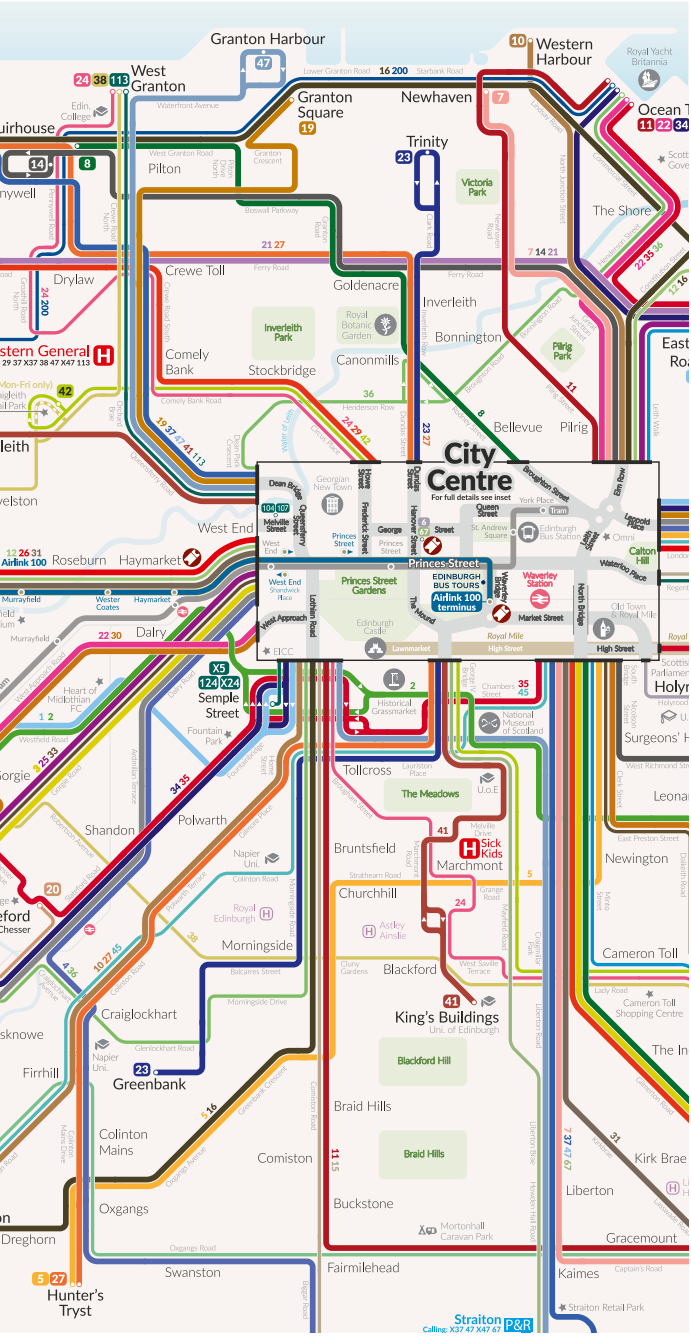
Notes

Notes

Map of Edinburgh Public Transportation



Travel information Edinburgh Airport – City Center



PROGRAM AT A GLANCE

	Friday, July 7, 2017	Saturday, July 8, 2017	Sunday, July 9, 2017	Monday, July 10, 2017	Tuesday, July 11, 2017
08:30		Workshops p.25	Plenary Lecture P02 Mike W. Salter p.30	Plenary Lecture P04 Fiona Doetsch p.36	Plenary Lecture P06 Richard Daneman p.42
09:30	Introductory Course p.24		Break (09:30–10:00)	Break (09:30–10:00)	Break (09:30–10:00)
10:00			Symposia II S06–10 p.30	Symposia IV S16–20 p.36	Symposia VI S26–30 p.42
12:00			Lunch Break (12:00–12:45)	Lunch Break (12:00–12:45)	Lunch Break (12:00–12:45)
12:45			Poster Session II p.33	Poster Session III p.39	Plenary Lecture P07 Dwight Bergles p.45
13:00		Opening (13:00–13:15) Plenary Lecture P01 Eric A. Newman p.27			
13:15					Closing Remarks (13:45–14:00)
13:45		Poster Session I p.27			
14:15					
15:45			Symposia III S11–S15 p.33	Symposia V S21–S25 p.39	
17:15		Symposia I S01–S05 p.27			
17:45			Break (17:45–18:15)	Break (17:45–18:15)	
18:15			Plenary Lecture P03 Yukiko Gotoh p.35	Plenary Lecture P05 Laura Feltri p.41	
19:15		Welcome Reception (19:15–20:00)			
20:00	Student Ceilidh (20:00–23:00)				

Call for Symposia

XIV European Meeting on Glial Cells in Health and Disease

Porto | July 10–13, 2019

Deadline for symposia proposals:
April 1, 2018

www.gliameeting.eu

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