



Miltenyi Biotec



PROGRAM

Glia Meeting 2019

Scientific program by Miltenyi Biotec

XIV European Meeting on Glial Cells
in Health and Disease, Porto, Portugal

Thursday, July 11, 2019

12:30–02:00 p.m.

Centro de Congressos da Alfândega do Porto
Despachantes Hall

OPENING REMARKS

Dear Glia Meeting Attendees,

With great pleasure we welcome you to the XIV European Meeting on Glial Cells in Health and Disease. The knowledge accumulation on glial cells has been witnessed at a phenomenal speed in the past 30–40 years, thanks to the effort from the glial community and to the increased availability of innovative technologies and reagents for research.

Miltenyi Biotec cordially invites you to our events to be held at Glia Meeting 2019 in Porto. This year in Miltenyi Biotec's workshop, our guest speakers will share their experiences on adult glial cells isolation for different downstream applications, e.g., single-cell sequencing and cell culture. Additionally, in the poster session, our R&D experts will show how different dissociation approaches can affect single-cell sequencing results on isolated neurons. Finally, at Miltenyi Biotec's booth, we are delighted to introduce the cutting-edge light sheet microscope technology: the UltraMicroscope II. Come and visit our booth #1 and start to unravel brain's complexity.

Yours,
The Miltenyi Biotec Team

Highlights at Glia Meeting 2019

Workshop

Adult neural cells from healthy and diseased brain – challenges and opportunities

Thursday, 11 July, 12:30–02:00 p.m.
Despachantes Hall

Poster session

Find out about the latest scientific research and developments by Miltenyi Biotec.

Automated brain dissociation and magnetic isolation of neurons increases efficiency and sensitivity of single cell analysis

Presenter: Sandy Reiß

Poster no.: T02-039B

Presentation: Thursday, July 11, 01:00–02:30 p.m.
(Poster Session II)

Exploring the architecture of biology

Using the cutting-edge light sheet microscope technology, the UltraMicroscope II opens new avenues to study entire biological systems and processes in physiologically representative 3D samples. Come by our booth #1, and talk to our light sheet microscope expert!

WORKSHOP

Adult neural cells from healthy and diseased brain – challenges and opportunities

Agenda

Chair Hui Demuth-Zhang, Ph.D.
Product Manager Regenerative
Medicine, Miltenyi Biotec GmbH,
Bergisch Gladbach, Germany

Cochair Melanie Jungblut, Ph.D.
Group Leader R&D Neuroscience,
Miltenyi Biotec GmbH,
Bergisch Gladbach, Germany

12:30 p.m. Welcome & introduction
Hui Demuth-Zhang, Ph.D.
Product Manager Regenerative
Medicine, Miltenyi Biotec GmbH,
Bergisch Gladbach, Germany

**12:35 p.m. Oligodendrocyte lineage cells
in health and disease**
Ana Mendanha Falcão, Ph.D.
Department of Medical Biochemistry
and Biophysics, Karolinska Institutet,
Stockholm, Sweden

**01:00 p.m. Microglia – key cellular modulators
in brain homeostasis**
Verena Claudia Haage
Max Delbrück Center for Molecular
Medicine in the Helmholtz Association
Berlin, Germany

**01:25 p.m. Adult astrocyte characterization –
reaching for the stars**
Pascale Eede
Charité University Hospital, Berlin,
Germany

**01:50 p.m. New tools for efficient adult brain
dissociation and neural cell isolation**
Melanie Jungblut, Ph.D.
Project Manager Neuroscience
Miltenyi Biotec GmbH,
Bergisch Gladbach, Germany

WORKSHOP

Tuesday, May 1, 2019, 05:00 p.m. – 06:30 p.m.

Chair



Hui Demuth-Zhang, Ph.D., studied clinical medicine at Nantong University, China. She received her Ph.D. in Molecular and Clinical Medicine focusing on multiple sclerosis research at the MRC Centre for Regenerative Medicine at the University of Edinburgh, UK. In 2014, she joined Miltenyi Biotec as a postdoc. Since 2016, she is Product Manager in Regenerative Medicine, responsible for the neuroscience and mesenchymal stem cells portfolio.

Notes

Cochair



Melanie Jungblut, Ph.D., studied biology and chemistry at the University of Kaiserslautern, Germany. She received her Ph.D. in Neurobiology/Biotechnology at the Max Planck Institute for Polymer Research and the University of Mainz, Germany. In 2007, she joined Miltenyi Biotec as a postdoc. Since 2011, she is group leader of Research & Development (R&D), responsible for product development in the field of neuroscience.

Notes

WORKSHOP

Speaker



Ana Mendanha Falcão, Ph.D., received her doctoral degree in 2012 at the Life and Health Sciences Research Institute, University of Minho, Braga, Portugal, where she has studied the adult subventricular zone modulation and heterogeneity. Then, she joined the laboratory of Goncalo Castelo-Branco at Karolinska Institutet, Stockholm, Sweden, and was awarded with the ECTRIMS postdoctoral fellowship for the treatment and research in multiple sclerosis (MS). During these last six years, Ana Mendanha Falcão has been developing projects on oligodendrocyte cell biology in health and in MS. She has been investigating oligodendrocyte heterogeneity in response to MS and the function of oligodendrocyte precursor cells as phagocytic and antigen-presenting cells. She was recently awarded with a junior leader fellowship by “la Caixa” Foundation to start an independent research project in Portugal. Her goal is to investigate the role of choroid plexus in myelination and in disease.

Notes

Speaker



Verena Claudia Haage, received her degree in Biology with focus on medical biology from the University of Konstanz, Germany. For her master thesis she went to the Spanish National Cancer Research Institute in Madrid, Spain, to work on the role of a histone deacetylase in pancreatic cancer stem cells. Currently, she is completing her Ph.D. in Cellular Neurosciences in the laboratory of Helmut Kettenmann at the Max Delbrück Center for Molecular Medicine in the Helmholtz Association (MDC), Berlin, Germany, as holder of a Ph.D. scholarship awarded by the NeuroCure Cluster of Excellence. During her Ph.D. she has been working on various projects on microglia. Her current research focuses on the identification of novel markers for microglia and peripheral monocytes in CNS to study the role of an extracellular matrix protein on microglia function and proteomic characterization of microglia in health and disease.

Notes

WORKSHOP

Speaker



Pascale Eede is a 5th year Ph.D. student in the lab of Prof. Frank Heppner at the Charité University Hospital in Berlin, Germany, where her research focuses on studying the interplay between the brain's innate immune system and Alzheimer's disease pathology. Her interest in neurodegenerative diseases was sparked during her undergraduate studies at the University of Liverpool (UK) which was further deepened in her postgraduate studies at King's College London (UK) with her theses focusing on Alzheimer's disease and brain injury respectively. During her Ph.D. she has been using mouse models with specific genetic perturbations to assess the role of a microglia-astrocyte signaling pathway upon Alzheimer's disease pathology using histological, biochemical, and *in vitro* techniques such as analyzing the response of adult astrocytes to certain stimuli.

Notes



ASTROCYTE TRAVEL AWARD 2019

This year's travel award is dedicated to scientists around the world for their contribution to the astrocyte research field.

Are you working in astrocyte research? Submit your abstract through our website before September 30, 2019 and win registration, travel, and accommodation to any neuroscience meeting in 2019 and share your innovative research with renowned scientists.





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