



SCIENTIFIC PROGRAM

DAY 1 Monday | September 26, 2016

MORNING SESSION

09.15 – 13.00 ROOM A: USSISHKIN

Chairs: Gianvito Martino, Hugh Willison and V. Wee Yong

09.15 INTRODUCTION TO THE COURSE

Gianvito Martino, Hugh Willison and V. Wee Yong

09.30 MICROGLIA IN DEVELOPMENT AND DISEASE

Luca Muzio, *San Raffaele Hospital (Milan, Italy)*

10.15 OLIGODENDROCYTES IN NEUROIMMUNOLOGICAL DISORDERS

Jack Antel, *McGill University (Montreal, Canada)*

11.00 Coffee Break

11.30 ASTROCYTES AS KEY REGULATORS OF NEUROINFLAMMATION

Francisco Quintana, *Brigham and Women's Hospital, Harvard Medical School (Boston, MA, USA)*

12.15 NEURONS IN CNS INFLAMMATORY DISORDERS

Frauke Zipp, *University Medical Center of the Johannes Gutenberg University (Mainz, Germany)*

LUNCH BREAK

13.00 – 14.30 POSTER HALL: AGAM FOYER

AFTERNOON SESSION

14.30 – 18.00 ROOM A: USSISHKIN

Chairs: Gianvito Martino, Hugh Willison and V. Wee Yong

14.30 MITOCHONDRIA AND NEUROPROTECTION

Don Mahad, *University of Edinburgh (Edinburgh, UK)*

15.15 BRAIN AGING AND NEURODEGENERATION

Tony Wyss-Coray, *Stanford School of Medicine (Stanford, CA, USA)*



16.00 Coffee break

16.30 **FUNDAMENTALS OF PSYCHONEUROIMMUNOLOGY: IMPLICATIONS IN NEUROIMMUNOLOGICAL DISORDERS**

Asya Rolls, Rappaport Institute of Medical Research, Technion (Haifa, Israel)

17.15 **VIRUSES IN NEUROIMMUNOLOGICAL DISORDERS**

Yoshihisa Yamano, St. Marianna University School of Medicine (Kawasaki, Japan)



DAY 2 Tuesday | September 27, 2016

WELCOME ADDRESS

08.00 – 08.30 ROOM A: USSISHKIN

Minister of Health

Michal Schwartz

V. Wee Yong

Dimitrios Karussis

Oded Abramsky – A short history of ISNI

Morning Session 08.30 – 13.00

Plenary Symposium

REPAIR/REGENERATION, STEM CELLS AND NEUROIMMUNOMODULATION

08.30 – 10.40 ROOM A: USSISHKIN

Chairs: Catherine Lubetzki and Zaal Kokaia

- 08.30** **REMYELINATION AND DEMYELINATING DISEASES**
Catherine Lubetzki, *Salpêtrière Hospital (Paris, France)*
- 08.52** **THERAPEUTIC PLASTICITY OF NEURAL STEM CELLS**
Marco Baciagaluppi on behalf of Gianvito Martino, *San Raffaele Hospital (Milan, Italy)*
- 09.13** **NEURONAL STEM CELLS: THE NATURAL RESOURCES FOR REGENERATION**
Tamir Ben-Hur, *Hadassah Hebrew University Medical Center (Jerusalem, Israel)*
- 09.35** **MECHANISMS OF SOMATIC ADULT STEM CELLS WITH FOCUS ON MESENCHYMAL STEM CELLS**
Antonio Uccelli, *University of Genoa (Genoa, Italy)*
- 09.56** **STEM CELLS IN STROKE THERAPY**
Zaal Kokaia, *Lund University (Lund, Sweden)*
- 10.18** **TRANSLATIONAL ADULT STEM CELL MEDICINE: CLINICAL EXPERIENCE IN NEUROIMMUNE AND NEURODEGENERATIVE DISEASES**
Dimitrios Karussis, *Hadassah Hebrew University Medical Organisation (Jerusalem, Israel)*
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COFFEE BREAK & POSTER VIEW

10.40 – 11.00 POSTER HALL: AGAM FOYER

Concurrent Symposia

PSYCHONEUROIMMUNOLOGY: IMMUNITY OVER MIND AND MIND OVER IMMUNITY/MEDICAL CANNABIS AND ITS EFFECTS

11.00 – 13.00 ROOM A: USSISHKIN

Chairs: Raz Yirmiya and Asya Rolls

- 11.00 MATERNAL HIGH FAT DIET INDUCES NEUROINFLAMMATORY CHANGES IN PLACENTA AND ALTERS OFFSPRING BRAIN AND BEHAVIOR IN MICE**
Staci Bilbo, Harvard Medical School, Massachusetts General Hospital for Children (Boston, MA, USA)
- 11.20 EFFECTS OF STRESS ON IMMUNE FUNCTION: THE GOOD, THE BAD, AND THE BEAUTIFUL**
Firdaus Dhabhar, Stanford University (Stanford, CA, USA)
- 11.40 IMMUNE MODULATION OF MEMORY, NEURAL PLASTICITY AND DEPRESSION**
Raz Yirmiya, The Hebrew University of Jerusalem (Jerusalem, Israel)
- 12.00 HARNESSING IMMUNITY BY THE REWARD SYSTEM**
Asya Rolls, Rappaport Institute of Medical Research, Technion (Haifa, Israel)
- 12.20 THE ENDOCANNABINOID SYSTEM – LOOKING BACK AND AHEAD**
Raphael Mechoulam, Institute for Drug Research (Jerusalem, Israel)
- 12.40 THE ROLE OF CANNABINOIDS IN NEUROPROTECTION**
Gareth Pryce, Queen Mary University of London (London, UK)
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AUTOIMMUNE CHANNELOPATHIES OF THE CNS

11.00 – 13.00 ROOM B: SCHWARTZ

Chairs: Josep Dalmau and Francisco Quintana

- 11.00 RECEPTORS, CHANNELS AND ASSOCIATED PROTEINS AS TARGETS FOR HUMORAL IMMUNITY IN THE NERVOUS SYSTEM**
Angela Vincent, Oxford University Hospital (Oxford, UK)



- 11.24 INVOLVEMENT OF GAP JUNCTION CHANNELS IN NEUROINFLAMMATION**
Kleopas Kleopa, *Cyprus School of Molecular Medicine (Nicosia, Cyprus)*
- 11.48 AUTOIMMUNE AND PARANEOPLASTIC CHANNELOPATHIES OF THE NERVOUS SYSTEM**
Vanda Lennon, *Mayo Clinic (Rochester, MN, USA)*
- 12.12 FUNCTIONAL EFFECTS OF SYNAPTIC RECEPTOR ANTIBODIES: FROM DISEASE TO ANIMAL MODELS**
Josep Dalmau, *University of Barcelona (Barcelona, Spain)*
- 12.36 NMO AND ANTI-AQP4 CHANNELOPATHY**
Brian Weinshenker, *Mayo Clinic (Rochester, MN, USA)*

CNS MICROGLIA AND MACROPHAGES IN HEALTH AND DISEASE. MYELOID CELLS IN THE BRAIN: ORIGIN, FATE AND EFFECT
11.00 – 13.00 ROOM C: ESHKOL

Chairs: Daniel Offen and Steffen Jung

- 11.00 MICROGLIA IN BRAIN PATHOLOGY**
Marco Prinz, *University Medical Center Freiburg (Freiburg, Germany)*
- 11.20 MECHANISMS OF MICROGLIA REGULATION IN NEURODEGENERATION**
Oleg Butovsky, *Brigham and Women's Hospital, Harvard Medical School (Boston, MA, USA)*
- 11.40 THE POWER OF ONE: IMMUNOLOGY IN THE AGE OF SINGLE CELL GENOMICS**
Orit Matcovich-Natan on behalf of Ido Amit, *The Weizmann Institute of Science (Rehovot, Israel)*
- 12.00 COUNTERBALANCING INFLAMMATORY PROCESSES WITHIN THE BRAIN**
Frauke Zipp, *University Medical Center of the Johannes Gutenberg University (Mainz, Germany)*
- 12.20 THE INTERPLAY BETWEEN GLIAL AND IMMUNE CELLS IN NEUROINFLAMMATORY AND NEURODEGENERATIVE CONDITIONS**
Lior Mayo, *Tel Aviv University (Tel-Aviv, Israel) / Brigham and Women's Hospital, Harvard Medical School (Boston, MA, USA)*



- 12.40** **PROMOTING REPAIR IN THE NERVOUS SYSTEM BY OVERRIDING SIRP α -DEPENDENT INHIBITION OF YELIN DEBRIS PHAGOCYTOSIS IN MICROGLIA AND MACROPHAGES**
Shlomo Rotshenker, *the Hebrew University of Jerusalem (Jerusalem, Israel)*
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Satellite Sponsored Lunch Symposium
13.00 – 14.00 ROOM A: USSISHKIN

Afternoon Session 14.00-18.30

Keynote Lecture

THE RITA LEVI MONTALCINI NEUROBIOLOGY LECTURE
14.00 – 14.45 ROOM A: USSISHKIN

Chair: Oded Abramsky and Roberto Furlan

- 14.00** **IMMUNE SYSTEM SUPPORTS BRAIN FUNCTION FROM ITS BORDERS: REJUVENATION BY IMMUNE CHECKPOINT BLOCKADE FOR FIGHTING ALZHEIMER'S DISEASE**
Michal Schwartz, *the Weizmann Institute of Science (Rehovot, Israel)*
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Oral Presentations

LESSONS FROM ANIMAL MODELS AND IMPLICATIONS FOR NOVEL IMMUNOTHERAPIES
14.45 – 16.00 ROOM A: USSISHKIN

Chairs: Avraham Ben-Nun and Talma Brenner

- 14.45** **5 - DIFFERENTIAL IMMUNE FUNCTIONS OF MURINE SUBTYPES OF ASTROCYTES**
Ehud Lavi, *New York Presbyterian Hospital / Cornell University Campus (New York, NY, USA)*
- 14.56** **7 - CTLA-4 BLOCKADE ELICITS PARANEOPLASTIC NEUROLOGICAL DISEASE IN A MOUSE MODEL**
Lidia Yshii, *Inserm U1043, Cptp, Chu Purpan (Toulouse, France)*
- 15.07** **214 - Depletion of CD52+ cells inhibits the development autoimmune encephalomyelitis, but can block the induction of immunological tolerance: Implications for drug-induced secondary autoimmunity in MS**
David Baker, *Queen Mary University of London (London, UK)*



- 15.18 208 - USE OF TOLL-LIKE RECEPTOR AGONISTS FOR THE DEVELOPMENT OF EXPERIMENTAL MYASTHENIA GRAVIS MODELS WITH THYMIC HYPERPLASIA**
 Melanie Cron, *G.H. Pitie_Salpetriere (Paris, France)*
- 15.29 45 - ASTROCYTE DEFORMATION AND NEUROVASCULAR DISRUPTION MEDIATE NEURONAL INJURY AND CORTICAL DAMAGE IN EXPERIMENTAL AUTOIMMUNE ENCEPHALOMYELITIS**
 Raya Eilam, *the Weizmann Institute of Science (Rehovot, Israel)*
- 15.40 348 - ANTIPHOSPHOLIPID SYNDROME, ANNEXIN ANTIBODIES AND BEHAVIOR**
 Ronen Weiss, *Tel Aviv University (Tel Aviv, Israel)*
- 15.51 257 - IRF4 BUT NOT ROR-GAMMAT IS INDISPENSABLE FOR PATHOGENIC TH17 CELL DEVELOPMENT AND MAINTAINANCE**
 Ilgiz Mufazalov, *the Johannes Gutenberg University (Mainz, Germany)*

THE EFFECTS OF MICROBIOME AND VACCINES IN NEUROIMMUNOLOGICAL DISEASES
 14.45 – 16.00 Room B: SCHWARTZ

Chairs: Scott Zamvil and Theodoros Sklaviadis

- 14.45 378 - A NOVEL AUTOANTIBODY FACILITATES BRAIN MICROVASCULAR ENDOTHELIAL PERMEABILITY IN NEUROMYELITIS OPTICA**
 Jeffrey Bennett, *University of Colorado Denver School of Medicine (Aurora, CO, USA)*
- 14.56 360 - GUT MICROBIOTA FROM MULTIPLE SCLEROSIS PATIENTS TRIGGERS AUTOIMMUNE ENCEPHALOMYELITIS IN MICE**
 Kerstin Berer, *Max Planck Institute of Neurobiology (Munich, Germany)*
- 15.07 122 - SUPER-RESOLUTION MICROSCOPY AND LIVE-CELL IMAGING TO REVEAL PROBIOTIC-DENDRITIC CELL INTERACTION**
 Elena Rinaldi, *Neurological Institute Carlo Besta (Milan, Italy)*
- 15.18 4 - CHRONIC SPINAL CORD INJURY ATTENUATES INFLUENZA VIRUS SPECIFIC ANTIVIRAL IMMUNITY**
 John Bethea, *Drexel University (Philadelphia, PA, USA)*
- 15.29 36 - ASSESSING THE EFFICACY OF A DNA VACCINE AGAINST AMYLOID-B IN A DOWN-SYNDROME MOUSE MODEL**
 Eitan Okun, *Bar-Ilan University (Ramat Gan, Israel)*



- 15.40 **46 - THE IMMUNOGENICITY OF AMYLOID BETA OLIGOMERS AND ROLE ALONG WITH THEIR IMMUNE COMPLEXES IN MACROPHAGE-MEDIATED INFLAMMATION**
 Indre Dalgediene, *Vilnius University (Vilnius, Lithuania)*
- 15.51 **102 - PROTECTIVE EFFECTS OF A PARASITE-DERIVED 68-MER PEPTIDE IN A RELAPSING MOUSE MODEL OF MULTIPLE SCLEROSIS**
 Judith Greer, *The University of Queensland (Brisbane, Australia)*

CNS BARRIERS AND NEUROIMMUNOLOGICAL EFFECTS OF AGING AND GENDER
 14.45 – 16.00 Room C: ESHKOL

Chairs: Roland Liblau and Amos Korczyn

- 14.45 **18 - THE HIPPOCAMPUS IS A (PARTIALLY) IMMUNE PRIVILEGED SITE**
 Nina Fainstein, *Hadassah Hebrew University Medical Center (Jerusalem, Israel)*
- 14.56 **75 - CYLD AGGRAVATES EXPERIMENTAL CEREBRAL MALARIA BY IMPAIRING CD8+ T CELL RESPONSES AND FOSTERING BLOOD-BRAIN BARRIER DAMAGE**
 Dirk Schlüter, *Otto-von-Guericke-University (Magdeburg, Germany)*
- 15.07 **92 - POLY(ADP-RIBOSE) TYPE 1 (PARP) INHIBITION IN LEUKOCYTES DIMINISHES INFLAMMATION VIA EFFECTS ON INTEGRINS/CYTOSKELETON AND PROTECTS THE BLOOD BRAIN BARRIER (BBB)**
 Yuri Persidsky, *Lewis Katz School of Medicine at Temple University (Philadelphia, PA, USA)*
- 15.18 **286 - LET-7 MICRORNAS PROTECT BLOOD BRAIN BARRIER (BBB) IN ISCHEMIA/REPERFUSION**
 Slava Rom, *Temple University School of Medicine (Philadelphia, PA, USA)*
- 15.29 **50 - AGING AND RECURRENT EPISODES OF NEUROINFLAMMATION PROMOTES PROGRESSIVE EAE IN BIOZZI ABH MICE**
 Sandra Amor, *VU University Medical Centre (Amsterdam, the Netherlands)*
- 15.40 **235 - AGEING INFLUENCES NADPH-OXIDASE ACTIVATION DURING NEUROINFLAMMATION**
 Helena Radbruch, *Charité - Universitätsmedizin Berlin (Berlin, Germany)*



15.51 372 – THE BLOOD MENINGEAL BARRIER ORCHESTRATES THE DEVELOPMENT OF AUTOIMMUNE INFLAMMATORY RESPONSES

Jorge Ivan Alvarez, *L'université De Montréal (Montréal, Canada) / University Of Pennsylvania (Philadelphia, PA, USA)*

POSTER SESSION AND COFFEE BREAK

CNS AND ITS BARRIERS: THE “PRIVILEGE” TO BE “ISOLATED”?

16.00 – 17.00 POSTER HALL: AGAM FOYER

18 - The Hippocampus is a (partially) immune privileged site

Nina Fainstein ⁽¹⁾ - Tamir Ben-hur ⁽¹⁾

Hadassah Hebrew University Medical Center, Dept. Of Neurology, Jerusalem, Israel ⁽¹⁾

33 – The choroid plexus in psychological stress response

Alexander Kertser ⁽¹⁾ - Kuti Baruch ⁽¹⁾ - Michal Schwartz ⁽¹⁾

Department Of Neurobiology, Weizmann Institute Of Science, Rehovot, Israel ⁽¹⁾

41 – The novel role of activated leukocyte cell adhesion molecule (ALCAM) in neuroinflammation

Marc-André Lécuyer ⁽¹⁾ - Lyne Bourbonnière ⁽¹⁾ - Sandra Larouche ⁽¹⁾ - Laure Michel ⁽¹⁾ - Catherine Larochelle ⁽¹⁾ - Marc Charabati ⁽¹⁾ - Camille Pittet ⁽¹⁾ - Soufiane Ghannam ⁽¹⁾ - Alexandre Prat ⁽¹⁾

Université De Montréal, Centre De Recherche Du Chum (crchum), Montreal, Canada ⁽¹⁾

92 - Poly(ADP-ribose) type 1 (PARP) inhibition in leukocytes diminishes inflammation via effects on integrins/cytoskeleton and protects the blood brain barrier (BBB)

Yuri Persidsky ⁽¹⁾ - Viviana Zuluaga-ramirez ⁽¹⁾ - Nancy Reichenbach ⁽¹⁾ - Holly Dykstra ⁽¹⁾ - Sachin Gajghate ⁽¹⁾ - Pal Pacher ⁽²⁾ - Slava Rom ⁽¹⁾

Lewis Katz School Of Medicine At Temple University, Pathology And Laboratory Medicine, Philadelphia, United States ⁽¹⁾ - Nih, Niaaa, Bethesda, United States ⁽²⁾

135 – Blood brain barrier shielding and anti-inflammatory properties of cannabinoid type 2 receptor (CB2) agonists: Novel approach to treatment of neuroinflammation

Yuri Persidsky ⁽¹⁾ - Viviana Zuluaga-ramirez ⁽¹⁾ - Nancy Reichenbach ⁽¹⁾ - Holly Dykstra ⁽¹⁾ - Servio Ramirez ⁽¹⁾ - Slava Rom ⁽¹⁾

Lewis Katz School Of Medicine At Temple University, Pathology And Laboratory Medicine, Philadelphia, United States ⁽¹⁾

198 – CNS endothelial IL-1 signaling drives neuroinflammation

Judith Hauptmann ⁽¹⁾ - Tommy Regen ⁽¹⁾ - Ari Waisman ⁽¹⁾

Institute For Molecular Medicine, University Medical Center Of The Johannes Gutenberg University, Mainz, Germany ⁽¹⁾

209 – Integrin alpha8 promotes T lymphocyte migration across the blood-CNS barriers

Elizabeth Gowing ⁽¹⁾ - Steve Gendron ⁽¹⁾ - Bieke Broux ⁽²⁾ - Marc-André Lécuyer ⁽¹⁾ - Marc Charabati ⁽¹⁾ - Evelyn Peelen ⁽¹⁾ - Lyne Bourbonnière ⁽¹⁾ - Sandra Larouche ⁽¹⁾ - Simone Terouz ⁽¹⁾ - Pierre Duquette ⁽³⁾ - Alexandre Prat ⁽¹⁾

Centre de recherche du CHUM, Université de Montréal, Montreal, Canada ⁽¹⁾ - Biomed, Hasselt University, Hasselt, Belgium ⁽²⁾ - Clinique de Sclerose en Plaques, L'Hopital Notre Dame (CHUM), Montreal, Canada ⁽³⁾



247 – The Choroid Plexus as an Immunological Niche for CD4 T Cell-Mediated Immunity in the CNS

Itai Strominger⁽¹⁾ - Omer Berner⁽¹⁾ - Kritika Mittal⁽¹⁾ - Nitzan Levy⁽¹⁾ - Anna Nemirovsky⁽¹⁾ - Alon Monsonego⁽¹⁾
Ben-Gurion University Of The Negev, Shraga Segal Department Of Microbiology, Immunology, And Genetics. National Institute Of Biotechnology In The Negev, Beer Sheva, Israel⁽¹⁾

260 – Netrin-4 Promotes Neuroinflammation by Regulating the Blood-Brain Barrier

Marc Charabati⁽¹⁾ - Cornelia Podjaski⁽¹⁾ - Jean-philippe Ouimet⁽¹⁾ - Marc-andré Lécuyer⁽¹⁾ - Catherine Larochelle⁽¹⁾ - Jorge Ivan Alvarez⁽²⁾ - Lyne Bourbonnière⁽¹⁾ - Sandra Larouche⁽¹⁾ - Nathalie Arbour⁽¹⁾ - Alexandre Prat⁽¹⁾
Centre De Recherche Du Centre Hospitalier De L'université De Montréal (crchum), Université De Montréal, Montreal, Canada⁽¹⁾ - Department Of Pathobiology, School Of Veterinary Medicine, University Of Pennsylvania, Philadelphia, United States⁽²⁾

263 – The Contribution of MCAM on the Blood-Brain Barrier to Neuroinflammation

Marc Charabati⁽¹⁾ - Marc-andré Lécuyer⁽¹⁾ - Catherine Larochelle⁽¹⁾ - Evelyn Peelen⁽¹⁾ - Laure Michel⁽¹⁾ - Lyne Bourbonnière⁽¹⁾ - Sandra Larouche⁽¹⁾ - Nathalie Arbour⁽¹⁾ - Alexandre Prat⁽¹⁾
Centre De Recherche Du Centre Hospitalier De L'université De Montréal (crchum), Université De Montréal, Montreal, Canada⁽¹⁾

261 – KCNK2 regulates immune-cell trafficking into the CNS via the formation of nanoscale immune docking structures on brain endothelial cells

Tobias Ruck⁽¹⁾ - Stefanie Bock⁽¹⁾ - Jonas Franz⁽²⁾ - Christoph Riethmüller⁽²⁾ - Stefan Bittner⁽³⁾ - Sven Meuth⁽¹⁾
University Of Muenster, Department Of Neurology, Muenster, Germany⁽¹⁾ - Nanostic Institute, Centre For Nanotechnology, Muenster, Germany⁽²⁾ - University Medical Center Of The Johannes Gutenberg University Mainz, Department Of Neurology, Mainz, Germany.⁽³⁾

286 - let-7 microRNAs protect blood brain barrier (BBB) in ischemia/reperfusion

Slava Rom⁽¹⁾ - Viviana Zuluaga-ramirez⁽¹⁾ - Sachin Gaghate⁽¹⁾ - Nancy Reichenbach⁽¹⁾ - Yuri Persidsky⁽¹⁾
Temple University School Of Medicine, Pathology And Laboratory Medicine, Philadelphia, United States⁽¹⁾

290 – Antigen expression by endothelial cells of the blood brain barrier elicits migration of CD8 T cells in the central nervous system

Céline Meyer⁽¹⁾ - Lidia Yshii⁽¹⁾ - Christina Gebauer⁽¹⁾ - Britta Engelhardt⁽²⁾ - Roland Liblau⁽¹⁾ - Guillaume Martin-Blondel⁽³⁾

Centre De Physiopathologie De Toulouse Purpan (CPTP), Université Toulouse III, Toulouse, France⁽¹⁾ - Theodor Kocher Institute, University Of Bern, Bern, Switzerland⁽²⁾ - Centre De Physiopathologie De Toulouse Purpan (CPTP)/department Of Infectious And Tropical Diseases, Toulouse University Hospital, Université Toulouse III, Toulouse, France⁽³⁾

368 – The effect of liquid aspirin in an experimental model of systemic infection and neuroinflammation

Jessica Teeling⁽¹⁾ - James Stuart⁽²⁾ - Jan Cohen⁽²⁾ - Simon Cohen⁽²⁾
University Of Southampton, Biological Sciences, Southampton, United Kingdom⁽¹⁾ - Innovate Pharmaceuticals Limited, -, Bury, United Kingdom⁽²⁾

383 - Single nucleus RNA-Seq reveals dynamics of adult newborn neurons

Naomi Habib^(1,2,3*) - Yinqing Li^(1,2,3,4*) - Matthias Heidenreich^(1,2,3) - Lukasz Swiech^(1,2,3) - Inbal Avraham-Davidi⁽¹⁾ - John J. Trombetta⁽¹⁾ - Cynthia Hession⁽¹⁾ - Feng Zhang^(1,2,3,5,6†) - Aviv Regev^(1,7†)
Broad Institute of MIT and Harvard⁽¹⁾ - Stanley Center for Psychiatric Research, Broad Institute of MIT and Harvard⁽²⁾ - McGovern Institute of Brain Research⁽³⁾ - Department of Electrical Engineering and Computer Science⁽⁴⁾ - Department of Brain and Cognitive Sciences⁽⁵⁾ - Department of Biological Engineering⁽⁶⁾ - Howard Hughes Medical Institute, Koch Institute of Integrative Cancer Research, Department of Biology, Massachusetts Institute of Technology, Cambridge, Massachusetts, USA⁽⁷⁾



GENDER AND AGING: EFFECTS ON THE IMMUNE SYSTEM AND BRAIN PLASTICITY

16.00 – 17.00 POSTER HALL: AGAM FOYER

50 - AGING AND RECURRENT EPISODES OF NEUROINFLAMMATION PROMOTES PROGRESSIVE EAE IN BIOZZI ABH MICE

Sandra Amor⁽¹⁾ - Laura Peferoen⁽¹⁾ - Marjolein Breur⁽¹⁾ - Sarah Van De Berg⁽¹⁾ - Regina Peferoen-baert⁽¹⁾ - Erik Boddeke⁽²⁾ - Paul Van Der Valk⁽¹⁾ - Gareth Pryce⁽³⁾ - Johannes Van Noort⁽⁴⁾ - David Baker⁽³⁾

Pathology Department, Vu University Medical Centre, Amsterdam, Netherlands⁽¹⁾ - Ugmc, Ugmc, Groningen, Netherlands⁽²⁾ - Blizard, Qmul, London, United Kingdom⁽³⁾ - Delta Crystallon Bv, Delta Crystallon Bv, Leiden, Netherlands⁽⁴⁾

178 - Old mice accumulate effector CD4 T cells refractory to Treg-induced immunosuppression

Idan Harpaz⁽¹⁾ - Udayan Bhattacharya⁽¹⁾ - Nitzan Levy⁽¹⁾ - Alon Monsonego⁽¹⁾

Ben-gurion University Of The Negev, The Shraga Segal Department Of Microbiology, Immunology And Genetics, Faculty Of Health Sciences, Beer Sheva, Israel⁽¹⁾

331 - Age-associated alterations of antioxidant status, calcium homeostasis and glucose transporter in aging female rat : Protective role of 17 β estradiol

Pardeep Kumar⁽¹⁾ - N Baquer⁽¹⁾

Jawaharlal Nehru University, School Of Life Sciences, New Delhi, India⁽¹⁾

362 - Inhibiting sOLTNF is Therapeutic for Neuropathic Pain in Male but not Female Mice

Tania Del Rivero⁽¹⁾ - Kayla Murphy⁽¹⁾ - John R. Bethea⁽¹⁾

Drexel University, Department Of Biology, Philadelphia, United States⁽¹⁾

LESSONS FROM ANIMAL MODELS AND IMPLICATIONS IN THE PATHOGENESIS OF HUMAN NEUROINFLAMMATORY DISEASES

16.00 – 17.00 POSTER HALL: AGAM FOYER

6 - Development of a Mouse Model mimicking Paraneoplastic Neurological Disease

Christina Gebauer⁽¹⁾ - Beatrice Pignolet⁽¹⁾ - Lidia Yshii⁽¹⁾ - Jan Bauer⁽²⁾ - Emilie Mauré⁽¹⁾ - Roland Liblau⁽¹⁾

Inserm U1043, Cptp, Chu Purpan, Toulouse, France⁽¹⁾ - Center Of Brain Research, Medical University Of Vienna, Vienna, Austria⁽²⁾

7 - CTLA-4 blockade elicits paraneoplastic neurological disease in a mouse model

Lidia Yshii⁽¹⁾ - Christina Gebauer⁽¹⁾ - Béatrice Pignolet⁽¹⁾ - Emilie Mauré⁽¹⁾ - Clémence Quériault⁽¹⁾ - Mandy Pierau⁽²⁾ - Hiromitsu Saito⁽³⁾ - Noboru Suzuki⁽³⁾ - Monika Brunner-weinzler⁽²⁾ - Jan Bauer⁽⁴⁾ - Roland Liblau⁽¹⁾

Inserm Centre De Physiopathologie Toulouse-purpan U1043, Université De Toulouse, Toulouse, France⁽¹⁾ - Otto-von-guericke University Magdeburg, Department Of Experimental Pediatrics, University Hospital, Magdeburg, Germany⁽²⁾ - Mie University Life Science Research Center, Department Of Animal Genomics, Functional Genomics Institute, Tsu, Japan⁽³⁾ - Medical University Of Vienna, Center For Brain Research, Vienna, Austria⁽⁴⁾

16 - TLR2 and TLR4 selectively regulate susceptibility of P0106-125-induced murine experimental autoimmune neuritis

Anna Brunn⁽¹⁾ - Mirna Mihelcic⁽¹⁾ - Mariana Carstov⁽¹⁾ - Lisa Feind⁽¹⁾ - Eva C. Wieser⁽¹⁾ - Julia Schmidt⁽¹⁾ - Olaf Utermöhlen^(2,3) - Martina Deckert⁽¹⁾

Department of Neuropathology, University Hospital of Cologne, Cologne, Germany⁽¹⁾ - Institute for Medical Microbiology, Immunology and Hygiene, Medical Center, University of Cologne, Germany⁽²⁾ - Center for Molecular Medicine, Cologne, Germany⁽³⁾



29 - Alpha7 nicotinic acetylcholine receptor and RIC-3 in the cholinergic anti-inflammatory pathway and neuroinflammation

Yael Ben-David⁽¹⁾ - Tehila Mizrahi⁽²⁾ - Karen Brusin⁽²⁾ - Abhijit Kulkarni⁽³⁾ - Ganesh Thakur⁽³⁾ - Talma Brenner⁽²⁾ - Millet Treinin⁽¹⁾

The Hebrew University, Dept. Of Med. Neurobio., Jerusalem, Israel⁽¹⁾ - Hadassah Medical Center, Neurology, Jerusalem, Israel⁽²⁾ - Pharmaceutical Sciences, School Of Pharmacy, Northeastern University, Boston, United States⁽³⁾

31 - Caspr2-reactive antibody cloned from a mother of an ASD child mediates an ASD-like phenotype in mice

Lior Brimberg⁽¹⁾ - Simone Mader⁽¹⁾ - Venkatesh Jeganathan⁽¹⁾ - Roseann Berlin⁽¹⁾ - Thomas R. Coleman⁽¹⁾ - Peter K. Gregersen⁽¹⁾ - Patricio Huerta⁽¹⁾ - Bruce T. Volpe⁽¹⁾ - Betty Diamond⁽¹⁾

The Feinstein Institute For Medical Research, North Shore Hospital, Manhasset, United States⁽¹⁾

54 - The death receptor Fas promotes Th17 cell function by inhibiting STAT1 activation

Gerd Meyer Zu Horste⁽¹⁾ - Dariusz Przybylski⁽²⁾ - Chao Wang⁽¹⁾ - Alexandra Schnell⁽¹⁾ - Youjin Lee⁽¹⁾ - Aviv Regev⁽²⁾ - Vijay Kuchroo⁽¹⁾

Harvard Medical School And Brigham And Women's Hospital, Evergrande Center For Immunologic Diseases, Boston, Ma, United States⁽¹⁾ - The Broad Institute, Mit And Harvard, Cambridge, Ma, United States⁽²⁾

61 - Pain behaviours and neuroinflammation in experimental autoimmune encephalomyelitis

Samuel Duffy⁽¹⁾ - Chamini Perera⁽¹⁾ - Preet Makker⁽¹⁾ - Justin Lees⁽¹⁾ - Pascal Carrive⁽²⁾ - Gila Moalem-Taylor⁽¹⁾

University Of New South Wales, School Of Medical Sciences, Department Of Physiology, Sydney, Australia⁽¹⁾ - University Of New South Wales, School Of Medical Sciences, Department Of Anatomy, Sydney, Australia⁽²⁾

88 - Myelin Damage and Repair in an Antibody Model of Multiple Sclerosis Demyelination

Yiting Liu⁽¹⁾ - Katherine Saul⁽²⁾ - Danielle Harlow⁽²⁾ - Adeline Matschulat⁽¹⁾ - Gregory Owens⁽¹⁾ - Wendy Macklin⁽²⁾ - Jeffrey Bennett⁽¹⁾

University Of Colorado, Anschutz Medical Campus, Neurology, Aurora, CO, United States⁽¹⁾ - University Of Colorado, Anschutz Medical Campus, Cell & Developmental Biology, Aurora, CO, United States⁽²⁾

139 - Toll-like receptors are not required for induction of Experimental Autoimmune Encephalomyelitis in mice

Filipa Marques Ferreira⁽¹⁾ - Pushpalatha Palle⁽¹⁾ - Thorsten Buch⁽¹⁾

University Of Zurich, Institute Of Laboratory Animal Sciences, Zurich, Switzerland⁽¹⁾

149 - Extraocular inflammation in experimental neuromyelitis optica

Kaufmann Nathalie⁽¹⁾ - Bleranda Zeka⁽¹⁾ - Maria Hastermann⁽¹⁾ - Tatsuro Misu⁽²⁾ - Paulus Rommer⁽³⁾ - Kazuo Fujihara⁽²⁾ - Zsolt Illes⁽⁴⁾ - Charlotte Dahle⁽⁵⁾ - Fritz Leutmezer⁽³⁾ - Markus Reindl⁽⁶⁾ - Hans Lassmann⁽¹⁾ - Monika Bradl⁽¹⁾

Department For Neuroimmunology, Center For Brain Research, Medical University Vienna, Vienna, Austria⁽¹⁾ - Department Of Neurology, Tohoku University Graduate School Of Medicine, Sendai, Japan⁽²⁾ - Department Of Neurology, Medical University Vienna, Vienna, Austria⁽³⁾ - Department Of Neurology, University Of Southern Denmark, Odense, Denmark⁽⁴⁾ - Department Of Clinical And Experimental Medicine (ike), Division Of Neuro And Inflammation Sciences, Linköping University, Linköping, Sweden⁽⁵⁾ - Clinical Department For Neurology, Medical University Of Innsbruck, Innsbruck, Austria⁽⁶⁾

161 - Antibody in cerebrospinal fluid can be directed to specific sites in brain

Marlene Thorsen Mørch⁽¹⁾ - Reza Khorrooshi⁽¹⁾ - Nasrin Asgari⁽¹⁾ - Trevor Owens⁽¹⁾

Institute Of Molecular Medicine, Department Of Neurobiology, University Of Southern Denmark, Odense, Denmark⁽¹⁾



166 - Retinal inflammation in Neuromyelitis optica: primary axonal dysfunction/damage and loss of aquaporin-4

Bleranda Zeka⁽¹⁾ - Maria Hastermann⁽¹⁾ - Nathalie Kaufmann⁽¹⁾ - Kathrin Schanda⁽²⁾ - Marko Pende⁽³⁾ - Tatsuro Misu⁽⁴⁾ - Paulus Rommer⁽⁵⁾ - Kazuo Fujihara⁽⁴⁾ - Charlotte Dahle⁽⁶⁾ - Fritz Leutmezer⁽⁵⁾ - Markus Reindl⁽²⁾ - Hans Lassmann⁽¹⁾ - Monika Bradl⁽¹⁾

Medical University Of Vienna, Department Of Neuroimmunology, Center For Brain Research, Vienna, Austria⁽¹⁾ - Innsbruck Medical University, Clinical Department Of Neurology, Austria, Innsbruck, Austria⁽²⁾ - Medical University Of Vienna, Section For Bioelectronics, Center For Brain Research, Vienna, Austria⁽³⁾ - Tohoku University Graduate School Of Medicine, Department Of Neurology, Sendai, Japan⁽⁴⁾ - Medical University Vienna, University Hospital For Neurology, Vienna, Austria⁽⁵⁾ - Linköping University, Department Of Clinical And Experimental Medicine, Faculty Of Health Sciences, Linköping, -⁽⁶⁾

177 – Ocytes in Alzheimer’s disease: role of protein kinase C

Amitha Muraleedharan⁽¹⁾ - Noa Rotem-Dai⁽¹⁾ - Etta Livneh⁽¹⁾ - Alon Monsonego⁽¹⁾

The Shraga Segal Department of Microbiology and Immunology, Faculty of Health Sciences, Ben-Gurion University of the Negev, Beer Sheva, Israel-84105⁽¹⁾

214 - Depletion of CD52+ cells inhibits the development autoimmune encephalomyelitis, but can block the induction of immunological tolerance: Implications for drug-induced secondary autoimmunity in MS

Stephanie Von Kutzleben⁽¹⁾ - Gareth Pryce⁽¹⁾ - Gavin Giovannoni⁽¹⁾ - Klaus Schmierer⁽¹⁾ - David Baker⁽¹⁾

Blizard Institute, Queen Mary University Of London, London, United Kingdom⁽¹⁾

215 - Autoantibody mediated T cell activation within the nervous tissue triggers CNS autoimmunity

Fred Lühder⁽¹⁾ - Anne-Christine Flach⁽¹⁾ - Tanja Litke⁽¹⁾ - Judith Strauss⁽¹⁾ - Francesca Odoardi⁽¹⁾ - Alexander Flügel⁽¹⁾

Institute for Multiple Sclerosis Research and Neuroimmunology, University of Göttingen Medical Center, Göttingen, Germany⁽¹⁾

223 - The leptomeninges: a checkpoint to control T cell trafficking and function in the course of CNS autoimmunity

Dmitri Lodygin⁽¹⁾ - Christian Schläger⁽¹⁾ - Henrike Körner⁽¹⁾ - Francesca Odoardi⁽¹⁾ - Alexander Flügel⁽¹⁾

Institute For Multiple Sclerosis Research And Neuroimmunology, University Of Göttingen, Göttingen, Germany⁽¹⁾

252 - Epilepsy and Microglial Dysregulation in CD39 Deficient Mice

Amanda Lanser⁽¹⁾ - Rafael Rezende⁽¹⁾ - Paul Lorello⁽¹⁾ - Huixin Xu⁽¹⁾ - Lauren Anderson⁽²⁾ - Chris Dulla⁽²⁾ - Barbara Caldarone⁽¹⁾ - Harvard Weiner⁽¹⁾

Harvard, Bwh, Boston, United States⁽¹⁾ - Tufts University, Tufts University, Boston, United States⁽²⁾

270 - Long-term cognitive decline and synaptic dysfunction due to severe pneumonia-induced neuroinflammation

Flora Oliveira⁽¹⁾ - Tatiana Maron-Gutierrez⁽¹⁾ - Bruno Bergamini⁽²⁾ - Alysson Roncally⁽²⁾ - Patrícia Reis⁽¹⁾ - Patrícia Bozza⁽¹⁾ - Hugo Castro-Faria-Neto⁽¹⁾ - Fernando Bozza⁽¹⁾

Fundação Oswaldo Cruz, Immunopharmacology, Rio De Janeiro, Brazil⁽¹⁾ - Federal University Of Rio De Janeiro, Respiratory Physiology, Rio De Janeiro, Brazil⁽²⁾

283 – Rosiglitazone role in sepsis encephalopathy of pneumonia origins

Gabriel Gutfiles Schlesinger⁽¹⁾ - Cassiano Felipe Gonçalves De Albuquerque⁽¹⁾ - Patricia Alves Reis⁽¹⁾ - Fernando Augusto Bozza⁽¹⁾ - Adriana Ribeiro Silva⁽¹⁾

Fiocruz, Oswaldo Cruz Institute, Rio De Janeiro, Brazil⁽¹⁾



284 - Contactin-2/TAG-1 role in myelination and demyelination

Domna Karagogeos⁽¹⁾ - Maria Savvaki⁽¹⁾ - Lida Zoupi⁽¹⁾ - Katerina Kalemaki⁽¹⁾ - Ilias Kalafatakis⁽¹⁾
 Medical School, University of Crete and IMBB-FORTH, Heraklion, Greece⁽¹⁾

285 - Novel microneurotrophins contribute to oligodendrocytes survival and proliferation in the cuprizone model of de- and remyelination

Giulia Bonetto⁽¹⁾ - Ioannis Charalampopoulos⁽²⁾ - Achilleas Gravanis⁽²⁾ - Domna Karagogeos⁽¹⁾
 Medical School, University Of Crete And Imbb Forth, Neuroscience, Heraklion, Greece⁽¹⁾ - Medical School, University Of Crete And Imbb Forth, Pharmacology, Heraklion, Greece⁽²⁾

338 – Addressing pivotal challenges in applied neuroscience: a knowledge center for research on brain diseases

Hanna Rosenmann⁽¹⁾ - Tamir Ben-Hur⁽¹⁾ - Bernard Lerer⁽²⁾
 Neurology, Hadassah – Hebrew University Medical Center, Jerusalem, Israel⁽¹⁾ - Psychiatry, Hadassah – Hebrew University Medical Center, Jerusalem, Israel⁽²⁾

342 - Long lasting effect of mesenchymal stem cells treatment in BTBR autism model

Nisim Perets⁽¹⁾
 Felsenstein Research Medical Center, Beilinson Hospital, Petah Tikva, Israel⁽¹⁾

343 – Introduction of anti-inflammatory and glutamate uptake genes reduces the neuronal damage in mouse model of focal ischemia

Ariel Angel⁽¹⁾ - Lior Molcho⁽¹⁾ - Tali Ben-tzur⁽¹⁾ - Yael Barhum⁽¹⁾ - Adi Egozi⁽¹⁾ - Daniel Offen⁽¹⁾
 Felsenstein Research Medical Center, Tel Aviv University, Petah Tikva, Israel⁽¹⁾

344 - Altered astrocytic response to activation in SOD1(G93A) mice and its implications on amyotrophic lateral sclerosis pathogenesis

Chen Bankler⁽¹⁾ - Tali Ben-tzur⁽¹⁾ - Yael Barhum⁽¹⁾ - Daniel Offen⁽¹⁾
 Felsenstein Research Medical Center, Tel Aviv University, Petah Tikva, Israel⁽¹⁾

351 - History doesn't repeat but it rhymes: Lessons from Spanish Flu virulence determinants

Alex Silaghi⁽¹⁾ - Gary Kobinger⁽²⁾ - Darwyn Kobasa⁽³⁾
 University Of Manitoba, Depts Of Internal Medicine-section Of Neurology; Medical Microbiology, Winnipeg, Canada⁽¹⁾ - Public Health Agency Of Canada; University Of Manitoba, Phac-special Pathogens (phac); Dept Of Medical Microbiology, Winnipeg, Canada⁽²⁾ - Public Health Agency Of Canada (phac); University Of Manitoba, Phac-special Pathogens; Dept Of Medical Microbiology, Winnipeg, Canada⁽³⁾

352 - Immunization against MIP3 α may confer protection against multiple sclerosis

Michal Abraham⁽²⁾ - Arnon Karni⁽³⁾ - Amnon Peled^(1,2)
 Goldyne Savad Institute of Gene Therapy, Hebrew University Hospital, Jerusalem, Israel⁽¹⁾ - Biokine Therapeutics Ltd, Ness Ziona, Israel⁽²⁾ - Neuroimmunology Laboratory, Department of Neurology, Tel Aviv Sourasky Medical Center, Tel Aviv University, Tel Aviv, Israel⁽³⁾

359 - Cross tolerance: Embryonic heat conditioning induces immune tolerance

Tali Rosenberg^(1,2) - Tatiana Kisliouk⁽²⁾ - Noam Meiri⁽²⁾
 The Robert H. Smith Faculty of Agriculture, Food and Environment, the Hebrew University of Jerusalem, Rehovot, Israel⁽¹⁾ - Institute of Animal Science, ARO, The Volcani Center, Bet Dagan, Israel⁽²⁾



366 - The function of pain associated fibers in MOG induced EAE

Isaac Levi⁽¹⁾ - Lena Finkelshtein⁽¹⁾ - Hagar Sonogo⁽¹⁾ - Ayelet Weksler⁽¹⁾ - Ilana Tsetsarsky⁽¹⁾ - David Castel⁽²⁾ - Sigal Meilin⁽¹⁾

Md Biosciences Innovalora, Neuroscience, Ness Ziona, Israel⁽¹⁾ - Sheba Medical Center, Tel Aviv U., Tel Aviv, Israel⁽²⁾

369 - Pharmacologically inhibiting soluble TNF α signaling mitigates autonomic dysreflexia after complete high thoracic spinal cord injury

Eugene Mironets⁽¹⁾ - Shaoping Hou⁽¹⁾ - John Bethea⁽²⁾ - Patrick Osei-owusu⁽³⁾ - Veronica Tom⁽¹⁾

Drexel University College Of Medicine, Neuroscience, Philadelphia, United States⁽¹⁾ - Drexel University, Biology, Philadelphia, United States⁽²⁾ - Drexel University College Of Medicine, Pharmacology And Physiology, Philadelphia, United States⁽³⁾

370 - Brain inflammation and cognitive impairment in WT mice mediated by C1 inhibitor

Dorit Farfara⁽¹⁾ - Emily Feierman⁽¹⁾ - Erin Norris⁽¹⁾ - Sidney Strickland⁽¹⁾

The Rockefeller University, Neurobiology & Genetics, Ny, United States⁽¹⁾

MS IMMUNOTHERAPY: OLD AND NEW PLAYERS (FROM THE BENCH TO BEDSIDE)

16.00 – 17.00 POSTER HALL: AGAM FOYER

76 - Fingolimod effects on monocyte microvesicle shedding in Multiple Sclerosis

Antonella Amoruso⁽¹⁾ - Maria Blonda⁽¹⁾ - Roberta Grasso⁽¹⁾ - Valeria Di Francescantonio⁽¹⁾ - Carlo Avolio⁽¹⁾

Dept. Of Medical And Surgical Sciences, University Of Foggia, Foggia, Italy⁽¹⁾

77 - Multiple Sclerosis treatments affect monocyte derived microvesicle production

Maria Blonda⁽¹⁾ - Antonella Amoruso⁽¹⁾ - Roberta Grasso⁽¹⁾ - Valeria Di Francescantonio⁽¹⁾ - Carlo Avolio⁽¹⁾

University Of Foggia, Dep. Of Medical And Surgical Sciences, Foggia, Italy⁽¹⁾

82 - Involvement of HCAR2-triggered pathways in dimethyl fumarate effect on immune and other cells

Benedetta Parodi⁽¹⁾ - Nicole Kerlero De Rosbo⁽¹⁾ - Antonio Uccelli⁽¹⁾

Neuroimmunology Unit - Department Of Neuroscience, University Of Genoa, Genoa, Italy⁽¹⁾

160 - Haematopoietic stem cell transplantation for relapsing remitting multiple sclerosis. Long-term follow-up data from two Swedish centra

Andreas Tolf⁽¹⁾ - Sara Nilsson⁽²⁾ - Ellen Iacobaeus⁽³⁾ - Fredrik Piehl⁽³⁾ - Hans Hägglund⁽⁴⁾ - Kristina Carlson⁽⁴⁾ - Joachim Burman⁽⁵⁾

Department Of Neuroscience, Uppsala University, Uppsala, Sweden⁽¹⁾ - Faculty Of Medicine, Uppsala University, Uppsala, Sweden⁽²⁾ - Department Of Neurology, Karolinska University Hospital, Stockholm, Sweden⁽³⁾ - Division Of Hematology, Department Of Medical Science, Uppsala University Hospital, Uppsala, Sweden⁽⁴⁾ - Department Of Neurology, Uppsala University Hospital, Uppsala, Sweden⁽⁵⁾

180 - Teriflunomide: immunomodulatory effect on adaptive and innate immune cell subsets

Iliaria Gandoglia⁽¹⁾ - Federico Ivaldi⁽¹⁾ - Federica Benvenuto⁽¹⁾ - Alice Laroni⁽¹⁾ - Nicole Kerlero De Rosbo⁽¹⁾ - Claudio Solaro⁽²⁾ - Antonio Uccelli⁽¹⁾

Department Of Neurosciences, Rehabilitation, Ophthalmology, Genetics, Maternal And Child Health (dinogmi),, University Of Genoa, Genoa, Italy⁽¹⁾ - Asl3 Liguria, Padre Antero Micone Hospital, Genoa, Italy⁽²⁾



190 - Reduced adhesion to human endothelium as one mechanism of action of dimethyl fumarate in Multiple Sclerosis

Johanna Breuer ⁽¹⁾ - Sebastian Herich ⁽¹⁾ - Tilman Schneider-hohendorf ⁽¹⁾ - Nina Wettschureck ⁽²⁾ - Luisa Klotz ⁽¹⁾ - Heinz Wiendl ⁽¹⁾ - Nicholas Schwab ⁽¹⁾

University Of Muenster, Neurology, Muenster, Germany ⁽¹⁾ - University Of Frankfurt, Molecular Pharmacology, Frankfurt, Germany ⁽²⁾

194 - Lymphocyte dynamics and (auto) immunity in multiple sclerosis induction treatment: Clues from phase III trial data of Cladribine compared to Alemtuzumab

Klaus Schmierer ^(1,2) - Samuel Spencer Herrod ⁽¹⁾ - Cesar Alvarez-Gonzalez ⁽¹⁾ - Monica Marta ^(1,2) - David Baker ⁽¹⁾

Queen Mary University Of London, Blizard Institute (Neuroscience), London, United Kingdom ⁽¹⁾ - Barts Health NHS Trust, The Royal London Hospital, ECAM Clinical Academic Group Neuroscience, London, United Kingdom ⁽²⁾

216 - Characterizing the Impact of Teriflunomide on the CD4+ T-Cell Repertoire of Patients With Relapsing-Remitting Multiple Sclerosis in the Teri-DYNAMIC Study

Heinz Wiendl ⁽¹⁾ - Catharina C Gross ⁽¹⁾ - Maren Lindner ⁽¹⁾ - Melanie Eschborn ⁽¹⁾ - Linda Weisser ⁽¹⁾ - Anita Posevitz-fejfar ⁽¹⁾ - Andreas Schulte-mecklenbeck ⁽¹⁾ - Bart Van Wijmeersch ⁽²⁾ - Sandrine Brette ⁽³⁾ - Timothy J Turner ⁽⁴⁾ - Alexandre Jagerschmidt ⁽⁵⁾ - Amit Bar-or ⁽⁶⁾ - Raymond Hupperts ⁽⁷⁾ - Luisa Klotz ⁽¹⁾

University Of Münster, Department Of Neurology, Münster, Germany ⁽¹⁾ - Hasselt University, Department Of Immunology, Hasselt, Belgium ⁽²⁾ - Lincoln, Biostatistics, Boulogne-billancourt, France ⁽³⁾ - Sanofi Genzyme, Translational Medicine, Cambridge, United States ⁽⁴⁾ - Sanofi Genzyme, Clinical & Translational Biomarkers, Chilly-mazarin, France ⁽⁵⁾ - Montreal Neurological Institute, Department Of Neurology And Neurosurgery, Montreal, Canada ⁽⁶⁾ - Maastricht University, Orbis Medical Center, Maastricht, Netherlands ⁽⁷⁾

256 - A novel role of TCF-1 in regulating T cell effector function in Multiple Sclerosis

Radhika Raheja ⁽¹⁾ - Maria Antonietta Mazzola ⁽¹⁾ - Murugaiyan Gopal ⁽¹⁾ - Hasan Rajabi ⁽²⁾ - Thomas Pertel ⁽¹⁾ - Keren Regev ⁽¹⁾ - Russell Griffin ⁽¹⁾ - Pia Kivisakk ⁽¹⁾ - Parham Nejad ⁽¹⁾ - Bonnie Glanz ⁽³⁾ - Tanuja Chitnis ⁽³⁾ - Howard Weiner ⁽¹⁾ - Roopali Gandhi ⁽¹⁾

Harvard Medical School, Brigham And Women's Hospital, Boston, United States ⁽¹⁾ - Dana Farber Cancer Institute, Harvard Medical School, Boston, United States ⁽²⁾ - Partners Ms Center, Brigham And Women's Hospital, Boston, United States ⁽³⁾

340 - Effect of dimethyl fumarate treatment on T lymphocytes and antigen presenting cells in multiple sclerosis patients

Maria Antonietta Mazzola ⁽¹⁾ - Radhika Raheja ⁽¹⁾ - Keren Regev ⁽¹⁾ - Anu Paul ⁽¹⁾ - Isabelle Pierre ⁽¹⁾ - Pia Kivisakk ⁽¹⁾ - Howard Weiner ⁽¹⁾ - Roopali Gandhi ⁽¹⁾

Brigham And Women's Hospital And Harvard Medical School, Ann Romney Center For Neurological Disease, Boston, Ma, United States ⁽¹⁾

279 - Microglial microvesicles as therapeutic vector for neuroinflammation

Giacomo Casella ⁽¹⁾ - Federico Colombo ⁽¹⁾ - Annamaria Finardi ⁽²⁾ - Roberto Furlan ⁽²⁾

Università Vita-Salute San Raffaele, Milan, Italy ⁽¹⁾ - Ospedale San Raffaele, Clinical Neuroimmunology, Milan, Italy ⁽²⁾

298 - aHST greatly reduces axonal loss in MS as evidenced by a reduction in the levels of CSF neurofilaments

Jennifer Black ⁽¹⁾ - Douglas Arnold ⁽²⁾ - Jaqueline Chen ⁽²⁾ - Marjorie Bowman ⁽³⁾ - Harold Atkins ⁽⁴⁾ - Mark Freedman ⁽³⁾

University Of Ottawa, Biochemistry, Microbiology & Immunology, Ottawa, Canada ⁽¹⁾ - Montreal Neurological Institute And Hospital, Neurology And Neurosurgery, Montreal, Canada ⁽²⁾ - Ottawa Hospital Research Institute, Neuroscience Program, Ottawa, Canada ⁽³⁾ - Ottawa Hospital Research Institute, Cancer Therapeutics Program, Ottawa, Canada ⁽⁴⁾



303 – mRNA electroporation is an effective tool to induce long-term myelin expression by human tolerogenic dendritic cells

Judith Derdelinckx^(1, 2) - Wai-Ping Lee⁽¹⁾ - Maxime De Laere⁽¹⁾ - Patrick Cras⁽²⁾ - Barbara Willekens⁽²⁾ - Zwi N. Berneman^(1, 3) - Nathalie Cools⁽¹⁾

Laboratory Of Experimental Hematology, Vaccine And Infectious Disease Institute (vaxinfectio), Faculty Of Medicine And Health Sciences, University Of Antwerp, Edegem, Belgium⁽¹⁾ - Antwerp University Hospital, Division Of Neurology, Edegem, Belgium⁽²⁾ - Antwerp University Hospital, Center For Cell Therapy And Regenerative Medicine, Edegem, Belgium⁽³⁾

318 - Increased Expression of miR-130b-5p in B cells and its Modulation by Glatiramer Acetate in Multiple Sclerosis

Latt Latt Aung⁽¹⁾ - Suhayl Dhib-jalbut⁽¹⁾ - Konstantin Balashov⁽¹⁾

Department of Neurology, Rutgers-Robert Wood Johnson Medical School, New Brunswick, NJ, United States⁽¹⁾

327 - A tolerogenic dendritic cell-based therapy for the treatment of multiple sclerosis: a first-in-human clinical trial

Nathalie Cools⁽¹⁾ - Wai-Ping Lee⁽¹⁾ - Maxime De Laere⁽¹⁾ - Barbara Willekens⁽²⁾ - Judith Derdelinckx^(1, 2) - Griet Nijs⁽³⁾ - Patrick Cras⁽²⁾ - Cristina Ramo Tello⁽⁴⁾ - Eva Martinez-Caceres⁽⁴⁾ - Zwi Berneman^(1, 3)

University Of Antwerp, Laboratory Of Experimental Hematology, Antwerp, Belgium⁽¹⁾ - Antwerp University Hospital, Division Of Neurology, Antwerp, Belgium⁽²⁾ - Antwerp University Hospital, Center For Cell Therapy And Regenerative Medicine, Antwerp, Belgium⁽³⁾ - Universitat Autònoma Barcelona, German Trias I Pujol University Hospital, Badalona, Spain⁽⁴⁾

329 - The Relationship between the clinical condition of Multiple sclerosis patients and the nutritional status, mitochondrial activity and oxidative stress

Ayelet Armon-omer⁽¹⁾ - Chen Waldman A⁽¹⁾ - Radi Shahien⁽²⁾

Ziv Medical Center, Research Lab, Zefat, Israel⁽¹⁾ - Ziv Medical Center, Neurology Unit, Zefat, Israel⁽²⁾

335 - Potential benefits of the anti-IL-6 receptor antibody tocilizumab in patients with multiple sclerosis and seronegative neuromyelitis optica spectrum disorders

Manabu Araki⁽¹⁾ - Masakazu Nakamura⁽¹⁾ - Wakiro Sato⁽¹⁾ - Takashi Yamamura⁽¹⁾

National Center Of Neurology And Psychiatry, Multiple Sclerosis Center, Tokyo, Japan⁽¹⁾

363 - CTLA4 as Immunological Checkpoint in the Development of Multiple Sclerosis

Eduardo Beltrán⁽¹⁾ - Lisa A. Gerdes⁽¹⁾ - Kathrin Held⁽¹⁾ - Carola Berking⁽²⁾ - Jörg C. Prinz⁽²⁾ - Andreas Junker⁽³⁾ - Julia K. Tietze⁽²⁾ - Birgit Ertl-Wagner⁽⁴⁾ - Andreas Straube⁽⁵⁾ - Tania Kümpfel⁽¹⁾ - Klaus Dornmair⁽¹⁾ - Reinhard Hohlfeld⁽¹⁾

Institute Of Clinical Neuroimmunology, Biomedical Center And University Hospital, Grosshadern-martinsried Campus, Ludwig Maximilian University, Munich, Germany⁽¹⁾ - Department Of Dermatology And Allergology, Ludwig Maximilian University, Munich, Germany⁽²⁾ - Department Of Neuropathology, University Of Göttingen, Göttingen, Germany⁽³⁾ - Department Of Radiology, Grosshadern Medical Campus, Ludwig Maximilian University, Munich, Germany⁽⁴⁾ - Department Of Neurology, Ludwig Maximilian University, Munich, Germany⁽⁵⁾



THE MICROBIOME AND EXTERNAL INFECTIOUS CHALLENGES IN NEUROIMMUNOLOGICAL DISEASES

16.00 – 17.00 POSTER HALL: AGAM FOYER

122 - Super-resolution microscopy and live-cell imaging to reveal probiotic-dendritic cell interaction

Elena Rinaldi ⁽¹⁾ - Chiara Cordiglieri ⁽¹⁾ - Alessandra Consonni ⁽¹⁾ - Cristina Cappelletti ⁽¹⁾ - Marina Elli ⁽²⁾ - Renato Mantegazza ⁽¹⁾ - Fulvio Baggi ⁽¹⁾

Neurological Institute Carlo Besta, Department of Neurology IV, Milan, Italy ⁽¹⁾ - Advanced Analytical Technologies, Fiorenzuola d'Arda (PC), Italy ⁽²⁾

225 - EBV infection affects the processing of myelin oligodendrocyte glycoprotein peptides in B cells - Implications for Multiple Sclerosis

Elena Morandi ⁽¹⁾ - Anwar Jagessar ⁽²⁾ - Cris Constantinescu ⁽¹⁾ - Bert T` Hart ⁽²⁾ - Bruno Gran ⁽¹⁾

University Of Nottingham, Division Of Clinical Neuroscience, Clinical Neurology Research Group, Nottingham, United Kingdom ⁽¹⁾ - Biomedical Primate Research Centre (bprc), Immunobiology Department, Rijswijk, Netherlands ⁽²⁾

242 - Cytomegalovirus infection exacerbates autoimmune mediated neuroinflammation

Marjan Vanheusden ⁽¹⁾ - Bieke Broux ⁽¹⁾ - Suzanne Welten ⁽²⁾ - Liesbet Peeters ⁽¹⁾ - Bart Van Wijmeersch ⁽¹⁾ - Veerle Somers ⁽¹⁾ - Piet Stinissen ⁽¹⁾ - Ramon Arens ⁽²⁾ - Niels Hellings ⁽¹⁾

Hasselt University, Biomedical Research Institute, Diepenbeek, Belgium ⁽¹⁾ - Leiden University Medical Center, Department Of Immunohematology And Blood Transfusion, Leiden, Netherlands ⁽²⁾

280 - The effect of early-life microbiota disruption on experimental autoimmune encephalomyelitis

Laura Cox ⁽¹⁾ - Chantal Kuhn ⁽¹⁾ - Stephanie Tankou ⁽¹⁾ - Howard Weiner ⁽¹⁾

Brigham And Women's Hospital/harvard Medical School, Neurology, Boston, United States ⁽¹⁾

360 - Gut Microbiota from Multiple Sclerosis patients triggers autoimmune encephalomyelitis in mice

Kerstin Berer ⁽¹⁾ - Lisa Ann Gerdes ⁽²⁾ - Egle Cekanaviciute ⁽³⁾ - Liang Xiao ⁽⁴⁾ - Zhongkui Xia ⁽⁴⁾ - Chuan Liu ⁽⁴⁾ - Uta Stauffer ⁽⁵⁾ - Sergio E. Baranzini ⁽³⁾ - Tania Kümpfel ⁽²⁾ - Reinhard Hohlfeld ⁽²⁾ - Gurumoorthy Krishnamoorthy ⁽¹⁾ - Hartmut Wekerle ⁽¹⁾

Max Planck Institute of Neurobiology, Neuroimmunology, Munich, Germany ⁽¹⁾ - Ludwig-Maximilians University, Institute of Clinical Neuroimmunology, Munich, Germany ⁽²⁾ - University of California, Department of Neurology, San Francisco, United States ⁽³⁾ - BGI-shenzhen, BGI Genomics, Shenzhen, China ⁽⁴⁾ - Max Planck Institute of Immunobiology and Epigenetics, Laboratory Animal Facility, Freiburg, Germany ⁽⁵⁾

VACCINES IN NEUROIMMUNOLOGY

16.00 – 17.00 POSTER HALL: AGAM FOYER

4 - Chronic spinal cord injury attenuates influenza virus specific antiviral immunity

Valerie Bracchi-Ricard ⁽¹⁾ - Ji Zha ⁽¹⁾ - Samita Andreasky ⁽²⁾ - John R. Bethea ⁽¹⁾

Drexel University Department Of Biology, University, Philadelphia, United States ⁽¹⁾ - University Of Miami, University, Miami, United States ⁽²⁾



36 - ASSESSING THE EFFICACY OF A DNA VACCINE AGAINST AMYLOID-B IN A DOWN-SYNDROME MOUSE MODEL

Eitan Okun⁽¹⁾ - Tomer Illouz⁽²⁾

The Leslie And Susan Gonda Multidisciplinary Brain Research Center, The Mina And Everard Goodman Faculty Of Life Sciences, Bar-ilan University, Ramat Gan, Israel⁽¹⁾ - The Leslie And Susan Gonda Multidisciplinary Brain Research Center, Bar-ilan University, Ramat Gan, Israel⁽²⁾

350 - Assessing the efficacy of a DNA vaccine against Amyloid-beta in a Down-syndrome mouse model

Tomer Illouz⁽¹⁾ - Eitan Okun⁽¹⁾

Bar-ilan University, The Leslie And Susan Gonda Multidisciplinary Brain Research Center, Ramat Gan, Israel⁽¹⁾

102 - Protective effects of a parasite-derived 68-mer peptide in a relapsing mouse model of multiple sclerosis

Judith Greer⁽¹⁾ - Aakanksha Dixit⁽¹⁾ - Sheila Donnelly⁽²⁾

The University Of Queensland, Uq Centre For Clinical Research, Brisbane, Australia⁽¹⁾ - University Of Technology Sydney, The School Of Life Sciences, Sydney, Australia⁽²⁾

158 - Inverse vaccination with superior dominant peptide may eradicate multiple sclerosis via sequential induction of stabilized hybrid regulatory T cells with antigen specificity and tissue repair capacity

Youwei Lin^(1,2) - Chandirasegaran Massilamany⁽³⁾ - Jayagopala Reddy⁽³⁾ - Takashi Yamamura⁽¹⁾

Department of Immunology, National Institute of Neuroscience, National Center of Neurology and Psychiatry (NCNP), Tokyo, JAPAN⁽¹⁾ - Department of Neurology, National Center Hospital, NCNP, Tokyo, JAPAN⁽²⁾ - School of Veterinary Medicine and Biomedical Sciences, University of Nebraska-Lincoln, Lincoln, USA⁽³⁾

377 - The impact of surgical stress, immune stimulation, and native immune cells on brain metastasis

Amit Benbenishty^(1,2,3) - Lee Shaashua⁽¹⁾ - Ariella Glasner⁽⁴⁾ - Yosi Azan⁽¹⁾ - Shamgar Ben-Eliyahu^(1,3) - Pablo Blinder^(2,3)

School of Psychological Sciences, Tel Aviv University, Tel Aviv, 69978, Israel⁽¹⁾ - Neurobiology Dep., Tel Aviv University, Tel Aviv, 69978, Israel⁽²⁾ - Sagol School of Neuroscience, Tel Aviv University, Tel Aviv, 69978, Israel⁽³⁾ - The Lautenberg Centre for General and Tumor Immunology, The Hebrew University Hadassah, Jerusalem, 91120, Israel⁽⁴⁾

Hot Topics

OLD AND NEW PATHS OF INFLAMMATION AND IMMUNE INTERVENTION AT THE LEVEL OF THE PERIPHERAL NERVES, THE NMJ AND THE MUSCLES

17.30 – 18.45 ROOM A: USSISHKIN

Chairs: Sonia Berrih-Aknin and Marinos Dalakas

17.00 THE IMPORTANCE OF THYMIC EDUCATION IN NEUROMUSCULAR JUNCTION AUTOIMMUNITY

Sonia Berrih-Aknin, *G.H. Pitie_Salpetriere (Paris, France)*

17.18 TOWARDS ANTIGEN-SPECIFIC APHERESIS OF AUTOANTIBODIES IN MG – A MODEL THERAPEUTIC APPROACH

Socrates Tzartos, *Hellenic Pasteur Institute (Athens, Greece)*



- 17.36 IMMUNE MEDIATED NEUROPATHIES AND MYOPATHIES**
Marinos Dalakas, *Thomas Jefferson University (Philadelphia, PA, USA)*
- 17.54 NEUROINFLAMMATION IN THE PERIPHERAL NERVES**
Hugh Willison, *Glasgow Biomedical Research Centre (Glasgow, UK)*
- 18.12 UPDATES IN CLINICAL AND THERAPEUTIC ASPECTS OF MYASTHENIA GRAVIS**
Robert Lisak, *Wayne State University School of Medicine (Detroit, MI, USA)*
-

Industry Sponsored Workshop
16.30 – 17.45 ROOM B: SCHWARTZ

MS IMMUNOTHERAPY: OLD AND NEW PLAYERS (FROM THE BENCH TO BEDSIDE)

17.00 – 18.30 ROOM C: ESKHOL

Chairs: Howard Weiner and Ludwig Kappos

- 17.30 MS TREATMENT: THE ERA OF MONOCLONALS**
Ludwig Kappos, *University Hospital Basel (Basel, Switzerland)*
- 17.49 MS TREATMENT: THE ERA OF ORALS**
Giancarlo Comi, *San Raffaele Hospital (Milan, Italy)*
- 18.07 B CELL DIRECTED THERAPIES IN RELAPSING AND PROGRESSIVE MS – AN UPDATE**
Hans-Peter Hartung, *Heinrich-Heine-University (Duesseldorf, Germany)*
- 18.26 AGGRESSIVE IMMUNOTHERAPY WITH AUTOLOGOUS HEMATOPOIETIC STEM CELL TRANSPLANTATION IN MS**
Mark Freedman, *Ottawa Hospital-General Campus (Ottawa, Canada)*
-



DAY 3 Wednesday | September 28, 2016

Morning session 08.00 – 13.00

Satellite Sponsored Workshop 08.00 – 08.45

Plenary Symposium

NEUROINFLAMMATION BEYOND TRADITIONAL NEUROIMMUNE DISEASES (EPILEPSY, ALS, ALZHEIMER'S, STROKE)

08.30 – 10.40 ROOM A: USSISHKIN

Chairs: Dan Frenkel and Serge Rivest

08.45 NEUROINFLAMMATION IN ALS

Stanely Appel, *Methodist Neurological Institute (Houston, TX, USA)*

09.08 IMMUNOLOGY OF STROKE: WHERE ARE WE HEADING NEXT?

Fu-Dong Shi, *Tianjin Medical University General Hospital (Tianjin, China)*

09.31 THE DYNAMICS OF MONOCYTES AND MICROGLIA IN ALZHEIMER'S DISEASE

Serge Rivest, *Laval University (Quebec, Canada)*

09.54 NEUROINFLAMMATION IN EPILEPTOGENESIS: MECHANISMS AND CONSEQUENCES

Annamaria Vezzani, *Mario Negri Institute for Pharmacological Research (Milan, Italy)*

10.17 NF- κ B AS A THERAPEUTIC TARGET IN ALS

Jean-Pierre Julien, *Laval University (Quebec, Canada)*

COFFEE BREAK & POSTER VIEW

10.40 – 11.00 POSTER HALL: AGAM FOYER



Concurrent Symposia

THE DOUBLE EDGED SWORD OF IMMUNITY IN NEURODEGENERATION

11.00 – 13.00 ROOM A: USSISHKIN

Chair: Trevor Kilpatrick and Luca Muzio

11.00 CELLULAR MECHANISMS OF CNS IMMUNOREGULATION

David Brown, *University of South Wales (Sydney, Australia)*

11.24 MICROGLIAL FUNCTION AND DYSFUNCTION IN MS

Trevor Kilpatrick, *University of Melbourne (Parkville, Australia)*

11.48 INVARIANT NKT CELLS REGULATION OF NEUROINFLAMMATION

Takashi Yamamura, *National Institute of Neuroscience (Tokyo, Japan)*

12.12 CONTROL OF AUTOIMMUNE CNS INFLAMMATION BY MICROGLIA AND ASTROCYTES

Francisco Quintana, *Brigham and Women's Hospital, Harvard Medical School (Boston, MA, USA)*

12.36 IMMUNE-BASED THERAPY FOR AD

Maya Koronyo-Hamaoui, *Cedars-Sinai Medical Center | Maxine Dunitz Neurosurgical Institute (Los Angeles, CA, USA)*

GENDER AND AGING: EFFECTS ON THE IMMUNE SYSTEM AND BRAIN PLASTICITY

11.00 – 13.00 ROOM B: SCHWARTZ

Chairs: Domna Karagogeos and Anat Achiron

11.00 CIRCULATORY FACTORS AS MODULATORS OF BRAIN FUNCTION

Tony Wyss-Coray, *Stanford School of Medicine (Stanford, CA, USA)*

11.24 AGE-ASSOCIATED IMMUNOLOGICAL DYSFUNCTION OF THE CHOROID PLEXUS NEGATIVELY AFFECTS BRAIN FUNCTION

Kuti Baruch, *the Weizmann Institute of Science (Rehovot, Israel)*

11.48 MICROGLIA AND THE AGING BRAIN

Jon Laman, *University of Groningen (Groningen, the Netherlands)*



- 12.12 AGING AND GENDER EFFECTS IN NEURODEGENERATION AND MS**
Therese Treves on behalf of Amos Korczyn, *Tel Aviv University (Tel Aviv, Israel)*
- 12.36 AGING: A FACTOR TO TIP-OVER NEURONAL CAPACITY TO TAME NEUROINFLAMMATION**
Shohreh Issazadeh-Navikas, *University of Copenhagen (Copenhagen, Denmark)*
-

CNS AND ITS BARRIERS: THE “PRIVILEGE” TO BE “ISOLATED”?

11.00 – 13.00 ROOM C: ESHKOL

Chairs: Alexandre Prat and Nikolaos Grigoriadis

- 11.00 IMMUNE SURVEILLANCE IN THE CNS**
Dorian McGavern, *National Institute of Neurological Disorders and Stroke NINDS (Bethesda, MD, USA)*
- 11.24 BBB DISABILITY IN MULTIPLE SCLEROSIS**
Alexandre Prat, *Université de Montréal (Montreal, Canada)*
- 11.48 THE CHOROID PLEXUS PROTEINS: FROM AD TO NEUROGENESIS**
Fernanda Marques, *University of Minho (Braga, Portugal)*
- 12.12 IMMUNE PRIVILEGE AND AUTOIMMUNITY IN THE NEURORETINA**
Rachel Caspi, *NEI (Bethesda, MD, USA)*
- 12.36 MOLECULAR MECHANISMS OF DENDRITIC AND EFFECTOR MYELOID CELLS TRANSMIGRATION IN THE CNS IN DEMYELINATION**
Krzysztof Selmaj, *Medical University of Lodz (Lodz, Poland)*
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SATELLITE SPONSORED LUNCH SYMPOSIUM

13.00 – 14.00 ROOM A: USSISHKIN



Afternoon Session 14.00-18.30

Keynote Lecture

THE NEWSOM-DAVIS LECTURE
14.00 – 14.45 ROOM A: USSISHKIN

Chairs: V. Wee Yong and Cedric Raine

14.00 **EFFECTOR AND REGULATORY T CELLS IN CNS AUTOIMMUNITY**
Vijay Kuchroo, *Harvard Medical School and Brigham and Women's Hospital (Boston, MA, USA)*

Oral Presentations

CNS MYELOID CELLS IN HEALTH AND DISEASE
14.45 – 16.00 ROOM A: USSISHKIN

Chairs: Ari Waisman and Adi Vaknin-Dembinsky

14.45 **9 - MANIPULATING IFN-I SIGNALING IN THE BRAIN THROUGHOUT LIFE REVEALS A NOVEL HOMEOSTATIC MICROGLIAL REGULATOR**
Aleksandra Deczkowska, *the Weizmann Institute of Science (Rehovot, Israel)*

14.56 **49 - ENGULFMENT OF LIVING TH17 CELLS BY MICROGLIA WITHIN THE BRAIN WITHOUT SUBSEQUENT CELL DEATH**
Beatrice Wasser, *University Medical Center of the Johannes-Gutenberg University Mainz (Mainz, Germany)*

15.07 **383 – SINGLE NUCLEUS RNA-SEQ REVEALS DYNAMICS OF ADULT NEWBORN NEURONS**
Naomi Habib, *MIT and Harvard (Boston, MA, USA)*

15.18 **197 - REDUCED MICROGLIAL ACTIVITY IN THE EARLY STAGES OF AUTOIMMUNE CNS INFLAMMATION LEADS TO ENHANCED GLUTAMATE TRANSMISSION IN THE BASOLATERAL AMYGDALA**
Shaona Acharjee, *University of Calgary (Calgary, Canada)*

15.29 **361 - THE FARNESOID-X-RECEPTOR IN MYELOID CELLS CONTROLS CENTRAL NERVOUS SYSTEM AUTOIMMUNITY IN AN IL-10-DEPENDENT FASHION**
Martin Herold, *University of Muenster (Muenster, Germany)*



- 15.40** **330 - SALL1 DEFINES MICROGLIA FATE AND FUNCTION**
Anne Buttgereit, *University of Zurich (Zurich, Switzerland)*
- 15.51** **381 – THE ROLE OF MICROGLIA IN ADULT NEUROGENESIS**
Ronen Reshef, *The Hebrew University of Jerusalem (Jerusalem, Israel)*
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NEUROINFLAMMATION BEYOND TRADITIONAL NEUROIMMUNE DISEASES

14.45 – 16.00 ROOM B: SCHWARTZ

Chairs: Jonathan Kipnis and Rina Aharoni

- 14.45** **94 - CD8 T CELL-MEDIATED KILLING OF OREXINERGIC NEURONS INDUCES A NARCOLEPSY-LIKE PHENOTYPE IN MICE**
Raphael Bernard-Valnet, *Université De Toulouse III (Toulouse, France)*
- 14.56** **117 - REGULATORY ROLE OF CYTOSOLIC PHOSPHOLIPASE A2 ALPHA IN INDUCTION OF CD40 IN MICROGLIA**
Yafa Fetfet Malada-Edelstein, *Ben-gurion University Of The Negev And Soroka University Medical Center (Beer-Sheva, Israel)*
- 15.07** **134 – ABERRANT ACTIVATION OF CLASSICAL COMPLEMENT PATHWAY MEDIATES SYNAPTIC LOSS IN A MOUSE MODEL OF SPINAL MUSCULAR ATROPHY**
Aleksandra Vukojcic, *Columbia University (New York, NY, USA)*
- 15.18** **341 - TRANSIENTLY BREAKING IMMUNE TOLERANCE BY TARGETING FOXP3+CD4+ REGULATORY T CELLS MITIGATES ALZHEIMER'S DISEASE PATHOLOGY**
Neta Rosenzweig, *the Weizmann Institute of Science (Rehovot, Israel)*
- 15.29** **273 - INDUCTION OF THE TYPE I INTERFERON RESPONSE IN NEUROLOGICAL FORMS OF GAUCHER DISEASE**
Einat Vitner, *libr, Infectious Diseases (Ness-ziona, Israel)*
- 15.40** **32 - NON- INVASIVE INTRANASAL TREATMENT OF ANGIOTENSIN RELATED DRUGS AS POTENTIAL THERAPY FOR ALZHEIMER'S DISEASE**
Nofar Torika-Nadiv, *Ben Gurion University of the Negev (Beer-Sheva, Israel)*
- 15.51** **51 - CELLULAR INVESTIGATIONS WITH HUMAN ANTIBODIES ASSOCIATED WITH THE IGLON5 SYNDROME**
Lidia Sabater, *Hospital Clinic De Barcelona / Neuroimmunology Group (Barcelona, Spain)*
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AUTOIMMUNE CHANNELOPATHIES AND NEUROMUSCULAR DISEASES

14.45 – 16.00 ROOM C: ESHKOL

Chairs: Angela Vincent and Vanda Lennon

- 14.45** **186 - EFFECT OF MATERNAL ANTIBODIES DIRECTED TO THE ASTROCYTIC WATER CHANNEL PROTEIN AQP4 IN NEUROMYELITIS OPTICA PREGNANCIES**
Simone Mader, The Feinstein Institute for Medical Research (Manhasset, USA)
- 14.56** **192 - REVIEW OF GAD ANTIBODY ASSAY IN OVER 820 PATIENTS AND ANALYSIS OF CLINICAL PHENOTYPE AND RESPONSE TO IMMUNOTHERAPY IN 15 STIFF PERSON SYNDROME PATIENTS**
Saiju Jacob, University Hospitals Birmingham and University of Birmingham (Birmingham, UK)
- 15.07** **328 - INTRATHECAL PLASMA CELLS ARE CLONALLY EXPANDED AND PRODUCE PATHOGENIC ANTIBODIES IN ANTI-NMDA-R ENCEPHALITIS**
Norbert Goebels, Heinrich-Heine-University (Duesseldorf, Germany)
- 15.18** **136 - METHYLATION AND EXPRESSION PROFILES OF MONOCYTES IN MONOZYGOTIC TWINS: ROLE IN MYASTHENIA GRAVIS**
Nili Avidan, Technion (Haifa, Israel)
- 15.29** **205 - CHARACTERIZATION OF THE ROLE OF MIR-150-5P IN MYASTHENIA GRAVIS**
Mélanie Cron, AIM, Center of Research in Myology (Paris, France)
- 15.40** **364 - PRECONDITIONED MSCS TREAT MYASTHENIA GRAVIS IN A HUMANIZED PRECLINICAL MODEL**
Sonia Berrih-Aknin, Sorbonne Universités (Paris, France)
- 15.51** **324 - TARGETING PLASMA CELLS WITH PROTEASOME INHIBITORS FOR TREATMENT OF MYASTHENIA GRAVIS**
Marina Damas, Maastricht University (Maastricht, the Netherlands)
-



POSTER SESSION AND COFFEE BREAK

AUTOIMMUNE CHANNELOPATHIES OF THE CNS

16.00 – 17.00 POSTER HALL: AGAM FOYER

60 - Comparison of antibody assays in anti-NMDAR encephalitis

Matteo Gastaldi*^(1,2) - Anaïs Thouin*^(1,3) - Ester Coutinho⁽¹⁾ - Leslie Jacobson⁽¹⁾ - Sarosh Irani⁽¹⁾ - Diego Franciotta⁽⁴⁾ - Angela Vincent⁽¹⁾

University of Oxford, Oxford, UK⁽¹⁾ - University of Pavia, Pavia, Italy⁽²⁾ - University of Newcastle upon Tyne, Newcastle, UK⁽³⁾ - IRCCS Mondino, Pavia, Italy⁽⁴⁾

85 - Pathological Mechanisms of Glycine Receptor Antibodies

Sarah J Crisp⁽¹⁾ - Angela Vincent⁽²⁾ - John Rothwell⁽³⁾ - Dimitri M Kullmann⁽¹⁾

Institute Of Neurology, University College London, Department Of Clinical And Experimental Epilepsy, London, United Kingdom⁽¹⁾ - University Of Oxford, Nuffield Department Of Clinical Neurosciences, Oxford, United Kingdom⁽²⁾ - Institute Of Neurology, University College London, Sobell Department Of Motor Neuroscience, London, United Kingdom⁽³⁾

145 - Different Antibodies Production in Autoimmune Channellopathies

Dmitriy Labunskiy⁽¹⁾

University of Northern California, Biomedical Engineering, Santa Rosa, CA, United States⁽¹⁾

162 - Pitfalls in Morvan's Syndrome diagnosis: two atypical cases mimicking motor neuron disease

Michelangelo Cao⁽¹⁾ - Francesco Cavallieri⁽²⁾ - Laura Miranda⁽²⁾ - Marco Zoccarato⁽³⁾ - Elena Pegoraro⁽⁴⁾ - Gianni Sorarù⁽⁴⁾ - Jessica Mandrioli⁽²⁾

University Of Oxford, Nuffield Department Of Clinical Neurosciences, Oxford, United Kingdom⁽¹⁾ - Department Of Neuroscience, S. Agostino-estense Hospital, University Of Modena And Reggio Emilia, Modena, Italy⁽²⁾ - U.O. Di Neurologia, Ospedale Regionale Di Treviso, Treviso, Italy⁽³⁾ - Department Of Neurosciences, University Of Padova, Padova, Italy⁽⁴⁾

186 - Effect of Maternal Antibodies Directed to the Astrocytic Water Channel Protein AQP4 in Neuromyelitis Optica Pregnancies

Simone Mader⁽¹⁾ - Lior Brimberg⁽²⁾ - James M. Crawford⁽³⁾ - Alexandre Bonnin⁽⁴⁾ - Jeffrey L Bennett⁽⁵⁾ - Patricio Huerta⁽¹⁾ - Bruce T Volpe⁽¹⁾ - Betty Diamond⁽¹⁾

The Feinstein Institute For Medical Research, Center For Autoimmune And Musculoskeletal Diseases, Manhasset, United States⁽¹⁾ - The Feinstein Institute For Medical Research, Center For Autoimmune And Musculoskeletal Diseases, New York, United States⁽²⁾ - Hofstra North Shore–lIJ School Of Medicine, Department Of Pathology And Laboratory Medicine, Hempstead, United States⁽³⁾ - Zilkha Neurogenetic Institute And Department Of Cell And Neurobiology, Keck School Of Medicine Of The University Of Southern California, Los Angeles, United States⁽⁴⁾ - University Of Colorado School Of Medicine, Department Of Neurology And Ophthalmology, Denver, United States⁽⁵⁾

187 - Cerebrospinal Fluid Free Light Chain profile is different in the two main sub-types of Autoimmune Encephalitis

Keerthi Senthil⁽¹⁾ - Abid Karim⁽²⁾ - Mark Drayson⁽²⁾ - Saiju Jacob⁽¹⁾

Department Of Neurology And Neuroimmunology, University Hospitals Birmingham And University Of Birmingham, Birmingham, United Kingdom⁽¹⁾ - Department Of Neuroimmunology, University Of Birmingham, Birmingham, United Kingdom⁽²⁾



192 - Review of GAD antibody assay in over 850 patients and analysis of clinical phenotype and response to immunotherapy in 15 Stiff Person Syndrome patients

Girija Sadalage⁽¹⁾ - Savinda Weerasinghe⁽¹⁾ - Abid Karim⁽²⁾ - Saiju Jacob⁽³⁾
 Department Of Neurology, University Hospitals Birmingham, Birmingham, United Kingdom⁽¹⁾ - Department Of Neuroimmunology, University Of Birmingham, Birmingham, United Kingdom⁽²⁾ - Department Of Neurology And Neuroimmunology, University Hospitals Birmingham And University Of Birmingham, Birmingham, United Kingdom⁽³⁾

201 - Neuropathological Investigation of LGI1-Encephalitis in Cats

Anna Tröscher⁽¹⁾ - Maria French⁽¹⁾ - Andrea Klang⁽²⁾ - Akos Pakozdy⁽³⁾ - Jan Bauer⁽¹⁾
 Medical University Of Vienna, Department Of Neuroimmunology, Center For Brain Research, Vienna, Austria⁽¹⁾ - University Of Veterinary Medicine Vienna, Institute Of Pathology And Forensic Veterinary Medicine, Vienna, Austria⁽²⁾ - University Of Veterinary Medicine Vienna, Clinic For Internal Medicine And Infectious Diseases, Vienna, Austria⁽³⁾

255 - Investigations into the pathogenic properties of glycine receptor autoantibodies using transfected human embryonic kidney cells and zebrafish embryos

Niels Von Wardenburg⁽¹⁾ - Kazutoyo Ogino⁽²⁾ - Hiromi Hirata⁽²⁾ - Carmen Villmann⁽¹⁾
 Institute Of Clinical Neurobiology, University Hospital Of Würzburg, Würzburg, Germany⁽¹⁾ - Department Of Chemistry And Biological Science, Aoyama Gakuin University, Tokyo, Japan⁽²⁾

NEUROINFLAMMATION BEYOND TRADITIONAL NEUROIMMUNE DISEASES

16.00 – 17.00 POSTER HALL: AGAM FOYER

13 - Bradykinin 1 receptor blockage increases amyloid beta burden and glial inflammation

Keren Asraf⁽¹⁾ - Nofar Torika⁽¹⁾ - Sigal Fleisher-Berkovich⁽¹⁾
 Department of Clinical Biochemistry and Pharmacology, Faculty of Health Sciences, Ben-Gurion University of the Negev, Beer-Sheva, Israel⁽¹⁾

32 - Non- invasive intranasal treatment of angiotensin related drugs as potential therapy for Alzheimer's disease

Nofar Torika-nadiv⁽¹⁾ - Keren Asraf⁽¹⁾ - Sigal Fleisher-berkovich⁽¹⁾
 Ben Gurion University Of The Negev, Department Of Clinical Biochemistry And Pharmacology, Beer-sheva, Israel⁽¹⁾

65 - Trem2 deficiency alters Alzheimer's disease-like pathology in mice

Kelly R. Miller^(1,5) - Pascale Eede⁽¹⁾ - K. Peter Nilsson^(1,4) - Frank L. Heppner^(1,2,3)
 Department of Neuropathology, Charité - Universitätsmedizin Berlin, Charitéplatz 1, 10117 Berlin, Germany⁽¹⁾ - Cluster of Excellence "NeuroCure," 10117 Berlin, Germany⁽²⁾ - Berlin Institute of Health (BIH), 10117 Berlin, Germany⁽³⁾ - Departments of Physics, Chemistry and Biology (IFM), Linköping University, Linköping SE-581 83, Sweden⁽⁴⁾ - Present address: Center for Neurodegenerative Disease Research, Perelman School of Medicine, University of Pennsylvania, Philadelphia PA 19104, United States⁽⁵⁾

71 - Antibodies against human hypocretin receptor 2 are rare in idiopathic narcolepsy

Maria Pia Giannoccaro⁽¹⁾ - Patrick Waters⁽¹⁾ - Fabio Pizza⁽²⁾ - Rocco Liguori⁽²⁾ - Giuseppe Plazzi⁽²⁾ - Angela Vincent⁽¹⁾
 Nuffield Department Of Clinical Neurosciences, Oxford University, Oxford, United Kingdom⁽¹⁾ - Irccs Institute Of The Neurological Sciences Of Bologna, Bellaria Hospital, Bologna, Italy⁽²⁾



80 - microRNA-146a has therapeutic effects in seizure and epilepsy models by reducing the IL-1R1/TLR4 signaling activation in neurons and glia

Valentina Iori⁽¹⁾ - Anand Iyer⁽²⁾ - Luca Beltrame⁽³⁾ - Lara Paracchini⁽³⁾ - Sergio Marchini⁽³⁾ - Milica Cerovic⁽¹⁾ - Teresa Ravizza⁽¹⁾ - Riccardo Brambilla⁽⁴⁾ - Maurizio D'incalci⁽³⁾ - Eleonora Aronica⁽²⁾ - Annamaria Vezzani⁽¹⁾

Mario Negri Institute For Pharmacological Research, Neuroscience, Milan, Italy⁽¹⁾ - Academisch Medisch Centrum, Neuropathology, Amsterdam, Netherlands⁽²⁾ - Mario Negri Institute For Pharmacological Research, Oncology, Milan, Italy⁽³⁾ - San Raffaele Institute, Neuroscience, Milan, Italy⁽⁴⁾

83 - Reduction of Cytosolic Phospholipase A2alpha upregulation in the spinal cord delays onset of symptoms in the SOD1-G93A mouse model of Amyotrophic Lateral Sclerosis

Rachel Levy⁽¹⁾ - Yulia Solomonov⁽¹⁾ - Nurit Hadad⁽¹⁾

Ben Gurion University of The Negev and Soroka University Medical Center, Clinical Biochemistry and Pharmacology, Beer-Sheva, Israel⁽¹⁾

84 - Identification of antibodies against inositol 1,4,5-triphosphate receptor 1 in cerebellar disorders

Pinelopi Fouka⁽¹⁾ - Harry Alexopoulos⁽¹⁾ - Ioanna Chatzi⁽¹⁾ - Scarlatos Dedos⁽²⁾ - Martina Samiotaki⁽³⁾ - George Panayotou⁽³⁾ - Panagiotis Politis⁽⁴⁾ - Athanasios Tzioufas⁽⁵⁾ - Marinos Dalakas⁽¹⁾

Faculty Of Medicine, University Of Athens, Neuroimmunology Unit, Department Of Pathophysiology, Athens, Greece⁽¹⁾ - University Of Athens, Department Of Biology, Athens, Greece⁽²⁾ - B.s.r.c. "alexander Fleming", Department Of Molecular Oncology, Athens, Greece⁽³⁾ - Biomedical Research Foundation Of The Academy Of Athens, Department Of Histology, Athens, Greece⁽⁴⁾ - Faculty Of Medicine, University Of Athens, Department Of Pathophysiology, Athens, Greece⁽⁵⁾

100 - Immune dysfunction in Rett syndrome patients revealed by high levels of serum anti-N(Glc) IgM antibody fraction

Anna Maria Papini⁽¹⁾ - Chiara Testa⁽²⁾ - Anna Aurora Dedonno⁽¹⁾ - Felician Real-fernandez⁽²⁾ - Silvia Leoncini⁽³⁾ - Cinzia Signorini⁽⁴⁾ - Lucia Ciccoli⁽⁴⁾ - Claudio De Felice⁽⁵⁾ - Joussef Hayek⁽⁶⁾ - Paolo Rovero⁽⁷⁾

University Of Florence And University Of Cergy-pontoise, French-italian Interdepartmental Laboratory Of Peptide And Protein Chemistry And Biology. Department Of Chemistry "Ugo Schiff", Sesto Fiorentino, Firenze, Italy⁽¹⁾ - University Of Florence And University Of Cergy-pontoise, French-italian Interdepartmental Laboratory Of Peptide And Protein Chemistry And Biology. Department Of Neurosciences And Pharmaceutical Sciences, Sesto Fiorentino, Firenze, Italy⁽²⁾ - Azienda Ospedaliera Universitaria Senese And University Of Siena, Child Neuropsychiatry Unit And Department Of Molecular And Developmental Medicine, Siena, Italy⁽³⁾ - University Of Siena, Department Of Molecular And Developmental Medicine, Siena, Italy⁽⁴⁾ - Azienda Ospedaliera Universitaria Senese, Neonatal Intensive Care Unit, Siena, Italy⁽⁵⁾ - Azienda Ospedaliera Universitaria Senese, Child Neuropsychiatry Unit, Siena, Italy⁽⁶⁾ - University Of Florence, French-italian Interdepartmental Laboratory Of Peptide And Protein Chemistry And Biology. Department Of Neurosciences And Pharmaceutical Sciences, Sesto Fiorentino, Firenze, Italy⁽⁷⁾

104 - Fumarate improves functional outcome of experimental ischemic stroke

Bettina Hjelm Clausen⁽¹⁾ - Louise Lundberg⁽¹⁾ - Minna Yli-karjanmaa⁽¹⁾ - Martin Nellie Anne⁽¹⁾ - Martina Svensson⁽²⁾ - Maria Zeiler Alfsen⁽¹⁾ - Kristina Lyngsø⁽³⁾ - Antonio Boza-serrano⁽²⁾ - Helle Hvilsted Nielsen⁽⁴⁾ - Pernille Hansen⁽⁵⁾ - Bente Finsen⁽¹⁾ - Thomas Deierborg⁽²⁾ - Zsolt Illes⁽⁴⁾ - Kate Lykke Lambertsen⁽¹⁾

University Of Southern Denmark, Department Of Neurobiology Research, Institute Of Molecular Medicine, Odense C, Denmark⁽¹⁾ - Lund University, Department Of Experimental Medical Sciences, Experimental Neuroinflammation Laboratory, Lund, Sweden⁽²⁾ - University Of Southern Denmark, Department Of Cardiovascular And Renal Research, Institute Of Molecular Medicine, Odense C, Denmark⁽³⁾ - Odense University Hospital, Department Of Neurology, Odense, Denmark⁽⁴⁾ - University Of Southern Denmark, Department Of Cardiovascular And Renal Research, Institute Of Molecular Medicine, Odense, Denmark⁽⁵⁾



125 - Wide-spread inflammation in CLIPPERS syndrome indicated by autopsy and ultrahigh field 7T MRI

Morten Blaabjerg ⁽¹⁾ - Klemens Ruprecht ⁽²⁾ - Tim Sinnecker ⁽³⁾ - Daniel Kondziella ⁽⁴⁾ - Thoralf Niendorf ⁽⁵⁾ - Bjorg Morell Kern-jespersen ⁽⁶⁾ - Mette Lindelof ⁽⁶⁾ - Hans Lassmann ⁽⁷⁾ - Bjarne Winther Kristensen ⁽⁸⁾ - Friedemann Paul ⁽²⁾ - Zsolt Illes ⁽¹⁾

University Of Southern Denmark, Odense University Hospital Department Of Neurology, Odense, Denmark ⁽¹⁾ - Charité - Universitätsmedizin, Clinical And Experimental Multiple Sclerosis Research Center, Berlin, Germany ⁽²⁾ - Charité - Universitätsmedizin, Neurocure Clinical Research Center, Berlin, Germany ⁽³⁾ - Copenhagen University Hospital, Rigshospitalet, Department Of Neurology, Copenhagen, Denmark ⁽⁴⁾ - Charité - Universitätsmedizin, Experimental And Clinical Research Center, Berlin, Germany ⁽⁵⁾ - Herlev Hospital, Department Of Neurology, Herlev, Denmark ⁽⁶⁾ - Medical University Of Vienna, Center For Brain Research, Vienna, Austria ⁽⁷⁾ - University Of Southern Denmark, Odense University Hospital Department Of Pathology, Odense, Denmark ⁽⁸⁾

105 - Increased concentration of IL-23 and IL-16 in the serum correlate with AQP4-IgG levels in NMO spectrum disorders

Helle Hvilsted Nielsen ⁽¹⁾ - Sudhakar Kalluri ⁽²⁾ - Tobias Sejæk ⁽¹⁾ - Gro Dale ⁽³⁾ - Thor Petersen ⁽³⁾ - Tunde Csepany ⁽⁴⁾ - Gabor Lovas ⁽⁵⁾ - Magdolna Simo ⁽⁶⁾ - Peter Dioszeghy ⁽⁷⁾ - Bernhard Hemmer ⁽⁸⁾ - Zsolt Illes ⁽⁹⁾

Odense University Hospital, Department Of Neurology, Odense C, Denmark ⁽¹⁾ - Technische Universitet, Department Of Neurology, Klinikum Rechts Der Isar, Munich, Germany ⁽²⁾ - Aarhus University Hospital, Department Of Neurology, Aarhus, Denmark ⁽³⁾ - University Of Debrecen, Department Of Neurology, Debrecen, Hungary ⁽⁴⁾ - Jahn Ferenc Teaching Hospital, Department Of Neurology, Budapest, Hungary ⁽⁵⁾ - Semmelweis University, Department Of Neurology, Budapest, Hungary ⁽⁶⁾ - Josa Andras Teaching Hospital, Department Of Neurology, Nyiregyhaza, Hungary ⁽⁷⁾ - Technische Universitet, Department Of Neurology, Klinikum Rechts Der Isar/ Munich Cluster For Systems Neurology (synergy), Munich, Germany ⁽⁸⁾ - Odense University Hospital/university Of Southern Denmark, Department Of Neurology/institute For Clinical Research, Odense C, Denmark ⁽⁹⁾

109 - Restoration of the peripheral immune/inflammatory response correlates with brain injury recovery in a murine model of Alzheimer disease

Giuseppina Cantarella ⁽¹⁾ - Giulia Di Benedetto ⁽¹⁾ - Renato Bernardini ⁽¹⁾

University Of Catania, Biomedical And Biotechnological Sciences, Catania, Italy ⁽¹⁾

114 - Antibody profiling identifies novel antigenic targets in spinal cord injury patients

Ilse Palmers ⁽¹⁾ - Elke Ydens ⁽¹⁾ - Eric Put ⁽²⁾ - Bart Depreitere ⁽³⁾ - Helma Bongers-janssen ⁽⁴⁾ - Peter Pickkers ⁽⁵⁾ - Sven Hendrix ⁽⁶⁾ - Veerle Somers ⁽¹⁾

Hasselt University, Immunology, Diepenbeek, Belgium ⁽¹⁾ - Jessa Hospital, Neurosurgery, Hasselt, Belgium ⁽²⁾ - Katholieke Universiteit Leuven And University Hospitals Leuven, Experimental Neurosurgery And Neuroanatomy, Leuven, Belgium ⁽³⁾ - Adelante, Rehabilitation, Hoensbroek, Netherlands ⁽⁴⁾ - Radboud University, Nijmegen Medical Centre, Intensive Care Medicine, Nijmegen, Netherlands ⁽⁵⁾ - Hasselt University, Morphology, Diepenbeek, Belgium ⁽⁶⁾

117 - Regulatory Role of Cytosolic Phospholipase A2 Alpha in Induction of CD40 in Microglia

Yafa Fetfet Malada-Edelstein ⁽¹⁾ - Nurit Hadad ⁽¹⁾ - Rachel Levy ⁽¹⁾

Ben-gurion University Of The Negev And Soroka University Medical Center, Department Of Clinical Biochemistry And Pharmacology, Faculty Of Health Sciences, Immunology And Infectious Diseases Laboratory, Beer-Sheva, Israel ⁽¹⁾

134 - Aberrant activation of classical complement pathway mediates synaptic loss in a mouse model of spinal muscular atrophy

Aleksandra Vukojicic ⁽¹⁾ - Nicolas Delestree ⁽¹⁾ - Emily V. Fletcher ⁽¹⁾ - Sethu Sankaranarayanan ⁽²⁾ - Ted Yednock ⁽²⁾ - Ben A. Barres ⁽³⁾ - George Z. Mentis ⁽¹⁾

Columbia University, Center For Motor Neuron Biology And Disease, Depts. Of Pathology & Cell Biology And Neurology, New York, United States ⁽¹⁾ - Annxon Biosciences, 280 Utah Avenue Suite 110, South San Francisco, United States ⁽²⁾ - Stanford University School Of Medicine, Dept. Of Neurobiology, Stanford, United States ⁽³⁾



165 - Immune response triggered by aberrant protein oligomers in microglial cells

Benedetta Mannini ⁽¹⁾ - Adahir Labrador-Garrido ⁽²⁾ - Giulia Vecchi ⁽¹⁾ - Bertrand Fabre ⁽³⁾ - David Pozo ⁽²⁾ - Fabrizio Chiti ⁽⁴⁾ - Christopher M. Dobson ⁽¹⁾ - Michele Vendruscolo ⁽¹⁾ - Cintia Roodveldt ⁽²⁾

University Of Cambridge, Department Of Chemistry, Cambridge, United Kingdom ⁽¹⁾ - CABIMER-Andalusian Center for Molecular Biology and Regenerative Medicine, University Of Seville, Seville, Spain ⁽²⁾ - University Of Cambridge, Cambridge Centre For Proteomics, Department Of Biochemistry, Cambridge, United Kingdom ⁽³⁾ - University Of Florence, Department Of Biomedical Experimental And Clinical Sciences, Florence, Italy ⁽⁴⁾

167 - Amyloid beta-reactive T cells as plaque-targeted immune modulators in mouse models of Alzheimer's disease

Ekaterina Eremenko ⁽¹⁾ - Kritika Mittal ⁽¹⁾ - Alon Monsonego ⁽¹⁾

The National Institute Of Biotechnology In The Negev; Ben-gurion University Of The Negev, The Shraga Segal Department Of Microbiology, Immunology And Genetics, Faculty Of Health Sciences, Ben-gurion University Of The Negev, Beer-sheva, Israel ⁽¹⁾

200 - The clinical significance of polymorphonuclear leukocytes in the cerebrospinal fluid in patients with aquaporin-4 antibody-positive myelitis

Hiroshi Kuroda ⁽¹⁾ - Toshiyuki Takahashi ⁽¹⁾ - Douglas Kazutoshi Sato ⁽¹⁾ - Yoshiki Takai ⁽¹⁾ - Shuhei Nishiyama ⁽¹⁾ - Tatsuro Misu ⁽²⁾ - Ichiro Nakashima ⁽¹⁾ - Kazuo Fujihara ⁽²⁾ - Masashi Aoki ⁽¹⁾

Tohoku University Graduate School Of Medicine, Department Of Neurology, Sendai, Japan ⁽¹⁾ - Tohoku University Graduate School Of Medicine, Department Of Multiple Sclerosis Therapeutics, Sendai, Japan ⁽²⁾

203 - Dissecting autoreactive T cell response in CNS autoimmunity

Eric Armentani ^(1,5) - Daniela Latorre ⁽¹⁾ - Ulf Kallweit ⁽²⁾ - Mauro Manconi ⁽³⁾ - Ramin Khatami ⁽⁴⁾ - Claudio Bassetti ⁽²⁾ - Antonio Uccelli ⁽⁵⁾ - Federica Sallusto ⁽¹⁾

Center Of Medical Immunology, Institute For Research In Biomedicine, Universita` Della Svizzera Italiana, Bellinzona, Switzerland ⁽¹⁾ - Inselspital, Department Of Neurology, Bern, Switzerland ⁽²⁾ - Neurocenter Of Southern Switzerland, Ente Ospedaliero Cantonale, Lugano, Switzerland ⁽³⁾ - Klinik Barmelweid, Center For Sleep Medicine, Sleep Research And Epileptology, Barmelweid, Switzerland ⁽⁴⁾ - Department Of Neuroscience, Rehabilitation, Ophthalmology, Genetics, Maternal And Child Health, University Of Genoa, Genoa, Italy ⁽⁵⁾

213 - Study of stroke outcome after experimental cerebral ischemia of the aged

Giorgia Serena Gullotta ⁽¹⁾ - Donatella De Feo ⁽¹⁾ - Norma Maugeri ⁽²⁾ - Paola Ronchi ⁽³⁾ - Andrea Bergamaschi ⁽⁴⁾ - Mattia Gallizioli ⁽¹⁾ - Giancarlo Comi ⁽¹⁾ - Gianvito Martino ⁽¹⁾ - Marco Bacigaluppi ⁽¹⁾

San Raffaele Scientific Institute, Università Vita-salute San Raffaele, Division Of Neuroscience- Inspe- Institute Of Experimental Neurology, Neuroimmunology Unit, Milan, Italy ⁽¹⁾ - San Raffaele Scientific Institute, Division Of Regenerative Medicine, Stem Cells, And Gene Therapy, Immunohematology And Transfusion Medicine Unit, Milan, Italy ⁽²⁾ - San Raffaele Scientific Institute, Division Of Immunology, Transplantation And Infectious Diseases, Autoimmunity & Vascular Inflammation Unit, Milan, Italy ⁽³⁾ - San Raffaele Scientific Institute, Division Of Neuroscience- Inspe- Institute Of Experimental Neurology, Neuroimmunology Unit, Milan, Italy ⁽⁴⁾

218 - Leukocyte subtype counts in the acute phase of ischemic stroke are predictive of functional outcome and hemorrhagic complications independently of infections

Aurora Semerano ⁽¹⁾ - Davide Strambo ⁽²⁾ - Gianvito Martino ⁽¹⁾ - Giancarlo Comi ⁽²⁾ - Luisa Roveri ⁽²⁾ - Marco Bacigaluppi ⁽¹⁾

San Raffaele Scientific Institute, Department Of Neurology - Institute Of Experimental Neurology, Inspe, Milan, Italy ⁽¹⁾ - San Raffaele Scientific Institute, Department Of Neurology, Milan, Italy ⁽²⁾



229 - Experimental stroke induces formation of B cell aggregates in the brain and production of CNS-reactive antibodies

Katarzyna Winek⁽¹⁾ - Tian Zhang⁽¹⁾ - Claudia Dames⁽²⁾ - Ewa Andrzejak⁽¹⁾ - Christian Meisel⁽²⁾ - Andreas Meisel⁽¹⁾ - Charité – Universitätsmedizin Berlin, Department Of Experimental Neurology, Berlin, Germany⁽¹⁾ - Charité – Universitätsmedizin Berlin, Institute For Medical Immunology, Berlin, Germany⁽²⁾

230 - Circulating myelomonocytic cells do not infiltrate the spinal cord of the mSOD mouse model of ALS

Coral-ann Lewis⁽¹⁾ - Charles Krieger⁽²⁾ - Fabio Rossi⁽¹⁾ - Biomedical Research Centre, University Of British Columbia, Vancouver, Canada⁽¹⁾ - Department Of Biomedical Physiology And Kinesiology, Simon Fraser University, Burnaby, Canada⁽²⁾

243 - The double edged sword of immunostimulation after stroke

Claudia Dames⁽¹⁾ - Katarzyna Winek⁽²⁾ - Andreas Meisel⁽²⁾ - Christian Meisel⁽¹⁾ - Institute For Medical Immunology, Charité - Universitätsmedizin, Berlin, Germany⁽¹⁾ - Department Of Experimental Neurology, Charité - Universitätsmedizin, Berlin, Germany⁽²⁾

246 - Brain immune surveillance alterations in transgenic models of Alzheimer's disease-like amyloid pathology

Maria Teresa Ferretti⁽¹⁾ - Claudia Spaeni⁽¹⁾ - Christoph Gericke⁽¹⁾ - Nora Schweizer⁽²⁾ - Tobias Suter⁽²⁾ - Luka Kulic⁽¹⁾ - Roger M. Nitsch⁽¹⁾ - Institute For Regenerative Medicine (irem), University Of Zurich, Schlieren, Switzerland⁽¹⁾ - Neurology, Neuroimmunology And Multiple Sclerosis Research, University Hospital Zurich, Zurich, Switzerland⁽²⁾

272 – HIV-1 viral protein R activates NLRP3 inflammasome in microglia: implications for HIV-1 associated neuroinflammation

Manmeet Mamik⁽¹⁾ - William Branton⁽¹⁾ - Brienne Mckenzie⁽²⁾ - Jesse Chisholm⁽¹⁾ - Christopher Power⁽¹⁾ - University Of Alberta, Department Of Medicine, Edmonton, Canada⁽¹⁾ - University Of Alberta, Department Of Medical Microbiology And Immunology, Edmonton, Canada⁽²⁾

287 – Alcohol, brain neuroimmune/inflammatory signaling, and neurodamage

Michael A. Collins⁽¹⁾ - Nuzhath Tajuddin⁽¹⁾ – Edward J. Neafsey⁽¹⁾ - Hee-Yong Kim⁽²⁾ - Department of Molecular Pharmacology, Stritch Medical School, Loyola University Chicago, Maywood IL, United States⁽¹⁾ – Laboratory of Molecular Signaling, NIAAA, NIH, Bethesda, MD, USA⁽²⁾

294 - Anti-LAP antibody: a new checkpoint inhibitor for the treatment of glioblastoma

Galina Gabriely⁽¹⁾ - Andre Pires Da Cunha⁽¹⁾ - Brendan Kenyon⁽¹⁾ - Rafael Rezende⁽¹⁾ - Tyler Vandeventer⁽¹⁾ - Murugaiyan Gopal⁽¹⁾ - Howard L. Weiner⁽¹⁾ - Ann Romney Center Of Neurologic Diseases, Brigham And Women's Hospital, Harvard Medical School, Boston, Ma, United States⁽¹⁾

310 - Ubiquilin-2 drives NF-κB activity and cytosolic TDP-43 aggregation in neuronal cells

Vincent Picher-martel⁽¹⁾ - Kallol Dutta⁽¹⁾ - Daniel Phaneuf⁽¹⁾ - Gen Sobue⁽²⁾ - Jean-pierre Julien⁽¹⁾ - Crismq, Université Laval, Québec, Canada⁽¹⁾ - Nagoya University Graduate School Of Medicine, Nagoya University, Nagoya, Japan⁽²⁾



325 - The link between pathological changes in astrocytes to the progression of Alzheimer's disease

Shoshik Amram ^(1, 2) - Tal Iram ^(1, 2) - Dan Frenkel ^(1, 2)

Tel Aviv University, Department Of Neurobiology, Faculty Of Life Sciences, Tel Aviv, Israel ⁽¹⁾ - Tel Aviv University, Sagol School Of Neuroscience, Tel Aviv, Israel ⁽²⁾

339 - Neuroimmune interactions: the VIP-ADNP impact

Illana Gozes ⁽¹⁾

Department Of Human Molecular Genetics And Biochemistry, Sackler Faculty Of Medicine, Adams Super Center for Brain Studies & Sagol School of Neuroscience, Tel Aviv University 69978, Tel Aviv, Israel ⁽¹⁾

345 - Serum IL17 and IL-23 levels have been determined patients who have RR- MS

Nebahat Tasdemir ⁽¹⁾

University Of Dicle Medical Faculty Depart Of Neurology, University Of Dicle Medical Faculty Depart Of Neurology, Diyarbakir, Turkey ⁽¹⁾

OLD AND NEW PATHS OF INFLAMMATION AND IMMUNE INTERVENTION AT THE LEVEL OF THE PERIPHERAL NERVES, THE NMJ AND THE MUSCLES

16.00 – 17.00 POSTER HALL: AGAM FOYER

3 - Thymus involvement in myasthenia gravis: epidemiological and clinical impacts of different self-tolerance breakdown mechanisms

Arnon Karni ⁽¹⁾ - Ali Asmail ⁽¹⁾ - Vivian Drory ⁽¹⁾ - Hadar Kolb ⁽¹⁾ - Anat Kesler ⁽¹⁾

Tel Aviv Medical Center, Sackler's Medical School, Tel Aviv University, Tel Aviv, Israel ⁽¹⁾

28 - Immunomodulation in Anti-MuSK Myasthenia Gravis

Valeria Serban, MD, Ph.D. ⁽¹⁾

TJU, TJU, Philadelphia, United States ⁽¹⁾

205 - Characterization of the role of miR-150-5p in Myasthenia Gravis

Mélanie Cron ⁽¹⁾ - Frédérique Truffault ⁽¹⁾ - Ambra Vittoria Gualeni ⁽²⁾ - Annunziata Gloghini ⁽²⁾ - Sonia Berrih-Aknin ⁽¹⁾ - Rozen Le Panse ⁽¹⁾

UMRS 974 UPMC - INSERM - Fre 3617 CNRS - Aim, Center of Research in Myology, Paris, France ⁽¹⁾ - Department of Pathology and Laboratory Medicine, Istituto Nazionale Dei Tumori, Milano, Italy ⁽²⁾

206 – Interleukin-23 level in thymuses of myasthenia gravis patients

Villegas Jose Adolfo ⁽¹⁾ - Le Panse Rozen ⁽¹⁾ - Berrih-Aknin Sonia ⁽¹⁾ - Dragin Nadine ⁽¹⁾

Center of Research in Myology, Sorbonne Universités, UPMC - INSERM Umrs 974, CNRS Fre3617, Institute of Myology, G.h. Pitié-Salpêtrière, Paris, France ⁽¹⁾

211 - AhR may be involved in autoimmune myasthenia gravis

Villegas Jose Adolfo ⁽¹⁾ - Khansa Rémi ⁽¹⁾ - Le Panse Rozen ⁽¹⁾ - Berrih-Aknin Sonia ⁽¹⁾ - Dragin Nadine ⁽¹⁾

Center of Research in Myology, Sorbonne Universités, UPMC - INSERM Umrs 974, CNRS Fre3617, Institute of Myology, G.h. Pitié-Salpêtrière, Paris, France ⁽¹⁾



334 - The Role of Slow and Persistent TTX-resistant Sodium Currents in Acute Tumor Necrosis Factor alpha - Mediated Increase in Nociceptors Excitability

Sagi Gudes⁽¹⁾ - Omer Barkai⁽¹⁾ - Yaki Caspi⁽¹⁾ - Ben Katz⁽¹⁾ - Shaya Lev⁽¹⁾ - Alexander M. Binshtok⁽¹⁾
 Institute For Medical Research Israel-canada, The Edmond And Lily Safra Center For Brain Sciences, Department Of Medical Neurobiology, Faculty Of Medicine, The Hebrew University, Jerusalem, Israel⁽¹⁾

PSYCHONEUROIMMUNOLOGY: IMMUNITY OVER MIND AND MIND OVER IMMUNITY

16.00 – 17.00 POSTER HALL: AGAM FOYER

12 - Mice lacking alpha-beta T cells display a normal cognitive behavior

Cláudia Serre-miranda⁽¹⁾ - Susana Roque⁽¹⁾ - João Pacheco⁽¹⁾ - Joana Palha⁽¹⁾ - Margarida Correia-neves⁽¹⁾
 Life And Health Sciences Research Institute (icvs), School Of Health Sciences, University Of Minho, Braga, Portugal⁽¹⁾

39 – Prenatal fluoxetine alters the response to an immune challenge: possible role for glucocorticoid hormones

Ronit Avitsur-Hamiel⁽¹⁾
 School of Behavioral Sciences, The Academic College of Tel Aviv-Yaffo, Tel-Aviv, Israel.⁽¹⁾

152 - Antidepressant Effects of Acupuncture Via Neuroimmunological Mechanisms

Jun Kawanokuchi⁽¹⁾ - Ken Takagi⁽¹⁾ - Nobuyuki Tanahashi⁽²⁾ - Kaito Mizuno⁽¹⁾ - Yoshinori Sunami⁽¹⁾ - Akihisa Yamamoto⁽³⁾ – Atsushi Takeda⁽³⁾ - Ko Nishimura⁽¹⁾ - Torao Ishida⁽¹⁾
 Institute Of Traditional Chinese Medicine, Suzuka University Of Medical Science, Suzuka, Japan⁽¹⁾ - Clinical Nutrition, Faculty Of Health And Hygiene, Suzuka University Of Medical Science, Suzuka, Japan⁽²⁾ - Acupuncture And Moxibustion, Faculty Of Health And Hygiene, Suzuka University Of Medical Science, Suzuka, Japan⁽³⁾

174 - Activation of the brain's reward system attenuates tumor growth in mice

Maya Schiller⁽¹⁾ - Tamar Ben-shaanah⁽¹⁾ - Ben Korin⁽¹⁾ - Hilla Azulay-debby⁽¹⁾ - Jivan Shakya⁽¹⁾ - Miki Rahat⁽¹⁾ - Fahed Hakim⁽²⁾ - Asya Rolls⁽¹⁾
 Technion Israel Institute Of Technology, Immunology, Haifa, Israel⁽¹⁾ - Rambam Health Care Campus, Pediatric Pulmonary Unit, Haifa, Israel⁽²⁾

175 - A reward for immunity- activation of dopaminergic neurons in the brain's reward system boost anti-bacterial immunity

Tamar L. Ben-shaanah⁽¹⁾ - Hilla Azulay-debby⁽¹⁾ - Tania Dubovik⁽¹⁾ - Elina Starosvetsky⁽¹⁾ - Ben Korin⁽¹⁾ - Maya Schiller⁽¹⁾ - Nathaniel L. Green⁽¹⁾ - Yasmin Admon⁽¹⁾ - Fahed Hakim⁽²⁾ - Shai S Shen-orr⁽¹⁾ - Asya Rolls⁽¹⁾
 Technion, Immunology, Haifa, Israel⁽¹⁾ - Rambam Health Care Campus, Pediatric Pulmonary Unit, Haifa, Israel⁽²⁾

195 – Autoantibody profiling of patients with schizophrenia

David Just⁽¹⁾ - Francis Cavallo⁽¹⁾ - Anna Häggmark⁽¹⁾ - Thomas Schulze⁽²⁾ - Erik Jönsson⁽³⁾ - Janet Cunningham⁽⁴⁾ - Peter Nilsson⁽¹⁾
 Science For Life Laboratory, School Of Biotechnology - Kth, Royal Institute Of Technology, Stockholm, Sweden⁽¹⁾ - Medical Center Of The University Munich, Department Of Psychiatric Phenomics And Genomics, Munich, Germany⁽²⁾ - Karolinska Institutet, Department Of Clinical Neuroscience, Centre Of Psychiatry Research, Stockholm, Sweden⁽³⁾ - Uppsala University, Department Of Neuroscience, Psychiatry, Uppsala, Sweden⁽⁴⁾



271 - A comparison of B cell population in cerebrospinal fluid of healthy controls and patients with schizophrenia

Sehba Husain-Krautter ⁽¹⁾ - Anil Malhotra ⁽²⁾ - Thomas Rothstein ⁽³⁾

Delaware Psychiatric Center ⁽¹⁾ - The Zucker Hillside Hospital ⁽²⁾ - Feinstein Institute for Medical Research ⁽³⁾

299 – The predictive value of cognitive evaluation in multiple sclerosis

Ron Milo ⁽¹⁾ - Jenia Reznuk-Zoref ⁽²⁾ - Omer Hegedish ⁽³⁾ - Semion Kertzman ⁽⁴⁾

Barzilai Medical Center, Department Of Neurology, Ashkelon, Israel, and Faculty Of Health Sciences, Ben-Gurion University Of The Negev, Israel ⁽¹⁾ - Barzilai Medical Center, Department Of Neurology, Ashkelon, Israel ⁽²⁾ - University Of Haifa, Department Of Psychology, Haifa, Israel ⁽³⁾ - Beer Yaakov Mental Hospital, Sackler School Of Medicine, Tel-Aviv University, Tel-Aviv, Israel ⁽⁴⁾

302 - A follow-up study in Mayor Depressive Disorders: advanced FACS and gene expression analysis

Anna Maria Finardi ⁽¹⁾ - Sara Di Toro ⁽¹⁾ - Cristina Lorenzi ⁽²⁾ - Adele Pirovano ⁽²⁾ - Sara Poletti ⁽²⁾ - Luca Battistini ⁽³⁾ - Giovanna Borsellino ⁽³⁾ - Gualtiero Colombo ⁽⁴⁾ - Elisa Bono ⁽⁴⁾ - Francesco Benedetti ⁽²⁾ - Roberto Furlan ⁽¹⁾

San Raffaele, Department Of Clinical Neuroimmunology, Milan, Italy ⁽¹⁾ - San Raffaele, Department Of Clinical Neurosciences, Milan, Italy ⁽²⁾ - Santa Lucia Foundation, Neuroimmunology Unit, Roma, Italy ⁽³⁾ - Irccs Monzino, Cardiological Centre, Milano, Italy ⁽⁴⁾

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

Simone Brioschi ⁽¹⁾ - Knut Biber ⁽¹⁾

Uniklinikum Freiburg, University Hospital Psychiatry And Psychotherapy, Freiburg, Germany ⁽¹⁾

379 - The effect of oligodendrogenesis overexpression in the dentate gyrus on hippocampal-related behavior and plasticity

Maayan Krispil ⁽²⁾ - Rachel Anunu ⁽²⁾ - Daniella Kaufer ⁽¹⁾ - Gal Richter Levin ⁽²⁾

Department of Integrative Biology, Helen Wills Neuroscience Institute, University of California, Berkeley, CA, USA ⁽¹⁾ - The institute for the study of affective neuroscience, the University of Haifa, Haifa, Israel ⁽²⁾

CNS MICROGLIA AND MACROPHAGES IN HEALTH AND DISEASE. MYELOID CELLS IN THE BRAIN: ORIGIN, FATE AND EFFECT

16.00 – 17.00 POSTER HALL: AGAM FOYER

9 - Manipulating IFN-I signaling in the brain throughout life reveals a novel homeostatic microglial regulator.

Aleksandra Deczkowska ⁽¹⁾ - Orit Matcovitch-Natan ^(1,2) - Afroditi Tsitsou-Kampeli ⁽¹⁾ - Eyal David ⁽²⁾ - Oded Singer ⁽³⁾ - Lucas K. Smith ⁽⁴⁾ - Anna Terem ⁽⁵⁾ - Ami Citri ⁽⁵⁾ - Saul Villeda ⁽⁴⁾ - Ido Amit ⁽²⁾ - Michal Schwartz ⁽¹⁾

Department Of Neurobiology, Weizmann Institute Of Science, Rehovot, Israel ⁽¹⁾ - Department Of Immunology, Weizmann Institute Of Science, Rehovot, Israel ⁽²⁾ - Faculty Of Biochemistry, Biological Services Unit, Weizmann Institute Of Science, Rehovot, Israel ⁽³⁾ - Department Of Anatomy, University Of California San Francisco, San Francisco, United States ⁽⁴⁾ - Institute Of Life Sciences, Faculty Of Natural Sciences, The Hebrew University Of Jerusalem, Jerusalem, Israel ⁽⁵⁾

49 - Engulfment of living Th17 cells by microglia within the brain without subsequent cell death

Beatrice Wasser ⁽¹⁾ - Dirk Luchtman ⁽¹⁾ - Kerstin Robohm ⁽¹⁾ - Esther Witsch ⁽¹⁾ - Frauke Zipp ⁽¹⁾ - Stefan Bittner ⁽¹⁾

Department Of Neurology, University Medical Center Of The Johannes-gutenberg University Mainz, Mainz, Germany ⁽¹⁾



55 - Plasticity of mononuclear phagocytes in an animal model of Multiple Sclerosis

Giuseppe Locatelli⁽¹⁾ - Delphine Theodorou⁽¹⁾ - Athanasios Dagkalis⁽¹⁾ - Marta Jordao⁽²⁾ - Nora Hagemeyer⁽²⁾ - Marco Prinz⁽²⁾ - Thomas Misgeld⁽³⁾ - Martin Kerschensteiner⁽¹⁾

Lmu University Munich, Institute For Clinical Neuroimmunology, Munich, Germany⁽¹⁾ - Universitätsklinikum Freiburg, Centrum Für Chronische Immundefizienz (cci), Freiburg, Germany⁽²⁾ - Technical University Munich, Institute Of Neuronal Cell Biology, Munich, Germany⁽³⁾

63 - Beware the intruder: neutrophil-microglia interactions after stroke in real time

Monika Riek-Burchardt⁽¹⁾ - Sophie Henneberg⁽²⁾ - Andreas J. Müller⁽¹⁾ - Klaus G. Reymann⁽³⁾ - Burkhard Schraven⁽¹⁾ - Matthias Gunzer⁽²⁾ - Jens Neumann⁽⁴⁾

Otto-von-Guericke University, Faculty Of Medicine, Institute Of Molecular And Clinical Immunology, Magdeburg, Germany⁽¹⁾ - University Duisburg-essen, Institute Of Experimental Immunology And Imaging, Essen, Germany⁽²⁾ - German Centre For Neurodegenerative Diseases (DZNE), Demenz-pathophysiologie, Magdeburg, Germany⁽³⁾ - Otto-von-Guericke University, Faculty Of Medicine, Department Of Neurology, Magdeburg, Germany⁽⁴⁾

72 - Functional characterization of microglia: a unique view on primary human microglia in normal appearing multiple sclerosis tissue

Marlijn van der Poel⁽¹⁾ - Suzanne SM Miedema⁽¹⁾ - Mark R Mizee⁽¹⁾ - Jörg Hamann⁽²⁾ - Inge Huitinga⁽¹⁾

Netherlands Institute For Neuroscience, Neuroimmunology, Amsterdam, Netherlands⁽¹⁾ - Academic Medical Center, Experimental Immunology, Amsterdam, Netherlands⁽²⁾

106 - Microglia as pH sensors of the brain: sensing tissue acidosis during hypoxia

Louis-Philippe Bernier⁽¹⁾ - Lasse Dissing-Olesen⁽¹⁾ - Jasmin Hefendehl⁽¹⁾ - Jeffrey Ledue⁽¹⁾ - Brian MacVicar⁽¹⁾

University Of British Columbia, Djavad Mowafaghian Centre For Brain Health, Vancouver, Canada⁽¹⁾

107 - Role of exosomes in microglia communication and inflammation

Joe C Udeochu⁽¹⁾ - Saul Villeda⁽¹⁾

University Of California, San Francisco, Anatomy, San Francisco, United States⁽¹⁾

111 - Deficiency of A20 in microglia leads to spontaneous neuroinflammation

Alma Mohebiany⁽¹⁾ - Bettina Steege⁽²⁾ - Lisa Hebich⁽²⁾ - Tana Omokoko⁽²⁾ - Ari Waisman⁽¹⁾

Institute For Molecular Medicine, University Medical Center Of The Johannes Gutenberg University Of Mainz, Mainz, Germany⁽¹⁾ - Biontech, Cell & Gene Therapy Gmbh, Mainz, Germany⁽²⁾

115 - Collectin sub-family member 12 expression is increased in active MS lesions and mediates myelin uptake by phagocytes

Jeroen Bogie⁽¹⁾ - Jo Maillieux⁽¹⁾ - Elien Wouters⁽¹⁾ - Winde Jorissen⁽¹⁾ - Jasmine Vanmol⁽¹⁾ - Kristiaan Wouters⁽²⁾ - Niels Hellings⁽¹⁾ - Jack Van Horssen⁽³⁾ - Tim Vanmierlo⁽¹⁾ - Jerome Hendriks⁽¹⁾

Biomedical Research Institute, Hasselt University, Diepenbeek, Belgium⁽¹⁾ - Cardiovascular Research Institute Maastricht (carim), Maastricht University Medical Centre (mumc), Maastricht, Netherlands⁽²⁾ - Department Of Molecular Cell Biology And Immunology, Vu University Medical Center, Amsterdam, Netherlands⁽³⁾

120 - Morphological and functional aspects of microglial turnover by circulating monocytes in a mouse model of constitutive microglial ablation

Anna Nemirovsky⁽¹⁾ - Strominger Itai⁽¹⁾ - Niva Blum⁽¹⁾ - Omer Berner⁽¹⁾ - Kritika Mittal⁽¹⁾ - Rona Baron⁽¹⁾ - Nitzan Levy⁽¹⁾ - Monsonogo Alon⁽¹⁾

Ben Gurion University Of The Negev, Shraga Segal Department Of Microbiology, Immunology, And Genetics, Beer Sheva, Israel⁽¹⁾



133 - Neuroprotective role of early activated microglia during preclinical autoimmune optic neuritis

Richard Fairless⁽¹⁾ - Sarah Williams⁽¹⁾ - Ricarda Diem⁽¹⁾

University Of Heidelberg, Department Of Neurology, Heidelberg, Germany⁽¹⁾

137 - Immunologic factors that impair remyelination in the aging central nervous system

Khalil S. Rawji⁽¹⁾ - David Tang⁽¹⁾ - Janson Kappen⁽¹⁾ - Michael B. Keough⁽¹⁾ - V. Wee Yong⁽¹⁾

University Of Calgary, Department Of Clinical Neurosciences And Hotchkiss Brain Institute, Calgary, Canada⁽¹⁾

143 - MerTK as a Functional Regulator of Anti-inflammatory Myelin Phagocytosis by Human Myeloid Cells

Luke Healy⁽¹⁾ - Gabrielle Perron⁽¹⁾ - So-yoon Won⁽¹⁾ - Craig Moore⁽²⁾ - Amit Bar-or⁽¹⁾ - Jack Antel⁽¹⁾

Montreal Neurological Institute, McGill University, Montreal, Canada⁽¹⁾ - Division Of Biomedical Sciences, Memorial University, St. Johns, Canada⁽²⁾

150 - Erythropoietin dampens injury-induced microglial activity

Hana Janova⁽¹⁾ - Miso Mitkovski⁽²⁾ - Liane Dahm⁽¹⁾ - Hong Pan⁽¹⁾ - Vivien Charlott Schwingel⁽¹⁾ - Klaus-armin Nave⁽³⁾ - Hannelore Ehrenreich⁽¹⁾

Max Planck Institute Of Experimental Medicine, Clinical Neuroscience, Goettingen, Germany⁽¹⁾ - Max Planck Institute Of Experimental Medicine, Light Microscopy Facility, Goettingen, Germany⁽²⁾ - Max Planck Institute Of Experimental Medicine, Department Of Neurogenetics, Goettingen, Germany⁽³⁾

156 - Multi-dimensional characterization of the brain's immune populations and their modification under peripheral infection

Ben Korin⁽¹⁾ - Nathaniel Green⁽¹⁾ - Tamar Ben Shaanan⁽¹⁾ - Tania Dubovik⁽¹⁾ - Asya Rolls⁽¹⁾

Technion, Israel Institute Of Technology, Department Of Immunology, Rappaport Medical School, Haifa, Israel⁽¹⁾

173 - Neuroprotective role of microglia in postnatal brain

Yuki Fujita⁽¹⁾ - Toshihide Yamashita⁽¹⁾

Graduate School Of Medicine, Osaka University, Department Of Molecular Neuroscience, Osaka, Japan⁽¹⁾

176 - Microglia development follows a stepwise program to regulate brain homeostasis

Orit Matcovitch-natan⁽¹⁾ - Deborah Winter⁽²⁾ - Shalev Itzkovitz⁽³⁾ - Eran Elinav⁽²⁾ - Michael H. Sieweke⁽⁴⁾ - Michal Schwartz⁽⁵⁾ - Ido Amit⁽²⁾

Weizmann Institute, Department Of Neurobiology And Department Of Immunology, Rehovot, Israel⁽¹⁾ - Weizmann Institute, Department Of Immunology, Rehovot, Israel⁽²⁾ - Weizmann Institute, Department Of Cell Biology, Rehovot, Israel⁽³⁾ - Université Aix-marseille, Um2, Campus De Luminy, Centre D'immunologie De Marseille-luminy, Marseille, France⁽⁴⁾ - Weizmann Institute, Department Of Neurobiology, Rehovot, Israel⁽⁵⁾

184 - TREM2-APOE signaling induces dysfunctional microglia in neurodegeneration

Charlotte Madore⁽¹⁾

Harvard Medical School, Brigham And Women's Hospital, Boston, United States⁽¹⁾

199 - ATP-induced IL-1beta secretion is selectively impaired in microglia as compared to hematopoietic macrophages

Saskia Burm⁽¹⁾ - Ella Zuiderwijk-sick⁽¹⁾ - Paola Weert⁽¹⁾ - Jeffrey Bajramovic⁽¹⁾

Biomedical Primate Research Centre, Alternatives, Rijswijk, Netherlands⁽¹⁾



212 - Macrophage Involvement in IL-9 Mediated Neuroprotection in Multiple Sclerosis

Inbar Saraf-Sinik⁽¹⁾ - Stefania Rossi⁽²⁾ - Roberta Magliozzi⁽²⁾ - Luca Battistini⁽¹⁾ - Elisabetta Volpe⁽¹⁾

Santa Lucia Foundation, Neuroimmunology, Rome, Italy⁽¹⁾ - University Of Verona, Neurological And Movement Sciences, Verona, Italy⁽²⁾

217 - Teriflunomide Impacts Primary Microglia and Astrocyte Functions In Vitro

Andrea Edling⁽¹⁾ - Lisa Woodworth⁽¹⁾ - Rajiv Agrawal⁽¹⁾ - Amy Mahan⁽¹⁾ - Tracy Garron⁽¹⁾ - Nellwyn Hagan⁽¹⁾ - Bill Siders⁽¹⁾

Sanofi Genzyme, Neuroimmunology Research, Framingham, United States⁽¹⁾

222 - IL-34 deficiency does not influence acute ischemic stroke outcome

Hélène Descamps^{*}⁽¹⁾ - Marco Bacigaluppi^{*}⁽¹⁾ - Donatella De Feo⁽¹⁾ - Iva Lelios⁽²⁾ - Elena Brambilla⁽¹⁾ - Burkhard Becher⁽²⁾ - Melanie Greter⁽²⁾ - Gianvito Martino⁽¹⁾

San Raffaele Scientific Institute, University Vita-salute San Raffaele, Milan, Italy⁽¹⁾ - Institute Of Experimental Immunology, University Of Zurich, Zurich, Switzerland⁽²⁾

231 - Deficient antigen presentation by arginase-expressing dendritic cells in autoimmune demyelinating disease

David Giles⁽¹⁾ - Benjamin Segal⁽¹⁾

University Of Michigan, Neurology, Ann Arbor, United States⁽¹⁾

250 - High-resolution characterization of microglia differentiation in the developing zebrafish

Niva Russek-Blum⁽¹⁾ - Moriya Avneri^(1,2) - Alon Monsonego⁽²⁾

The Dead Sea And Arava Science Center, Central Arava Branch, Hazeva, Israel⁽¹⁾ - Ben-gurion University, The Shraga Segal Dept. Of Microbiology, Immunology And Genetics. The Faculty Of Health Sciences, And The National Institute Of Biotechnology, Beer-sheva, Israel⁽²⁾

258 - Characterization of the pathogenic role of microglia in a mouse model of retinitis pigmentosa

Panayota Kolypetri⁽¹⁾ - Gennadi Landa⁽¹⁾ - Charlotte Madore⁽¹⁾ - Bruce Ksander⁽²⁾ - Hans Lassmann⁽³⁾ - Oleg Butovsky⁽¹⁾ - Howard Weiner⁽¹⁾

Ann Romney Center For Neurologic Diseases, Brigham And Women's Hospital, Harvard Medical School, Boston, United States⁽¹⁾ - Schepens Eye Research Institute, Massachusetts Eye And Ear Infirmary, Harvard Medical School, Boston, United States⁽²⁾ - Center For Brain Research, Department Of Neuroimmunology, Medical University Vienna, Vienna, Austria⁽³⁾

269 - Acute purification of human adult microglia from the post-mortem brain. A systematic validation study

Mark Mizee⁽¹⁾ - Suzanne Miedema⁽²⁾ - Adelia Adelia⁽¹⁾ - Karianne Schuurman⁽¹⁾ - Jorg Hamann⁽³⁾ - Inge Huitinga⁽⁴⁾

Netherlands Brain Bank For Psychiatry, Netherlands Institute For Neuroscience, Amsterdam, Netherlands⁽¹⁾ - Immunology Research Group, Netherlands Institute For Neuroscience, Amsterdam, Netherlands⁽²⁾ - Academic Medical Center Amsterdam, Academic Medical Center Amsterdam, Amsterdam, Netherlands⁽³⁾ - Netherlands Brain Bank, Netherlands Institute For Neuroscience, Amsterdam, Netherlands⁽⁴⁾

293 - Exposure to 3-nitropropionic acid mitochondrial toxin induces tau pathology in tangle-mouse model and in wild type-mice mediated by a microglial response

Inbal Lahiani-Cohen⁽¹⁾ - Nikolaos Grigoriadis⁽²⁾ - Lea Rozenstein-Tsalkovich⁽¹⁾ - Athanasios Loubopoulos⁽²⁾ - Olga Touloumi⁽²⁾ - Oded Abramsky⁽¹⁾ - Hanna Rosenmann⁽¹⁾

Hadassah Hebrew University Medical Center, The Department Of Neurology, The Agnes Ginges Center For Human Neurogenetics, Jerusalem, Israel⁽¹⁾ - Ahepa University Hospital, The B' Department Of Neurology, Thessaloniki, Macedonia, Greece⁽²⁾



309 - Dual role of microglia in mediating the central response to peripheral inflammation

Karin Riemer⁽¹⁾ - Bianca Brawek⁽¹⁾ - Daria Savitska⁽¹⁾ - Elizabeta Zirdum⁽¹⁾ - Olga Garaschuk⁽¹⁾

Institute Of Physiology II, Eberhard Karls University, Tuebingen, Germany⁽¹⁾

311 - Ly6CHigh inflammatory monocytes mediate microglial dysfunction via Apoe and Galectin-3 signaling in experimental autoimmune encephalitis (EAE)

Elaine O'Loughlin⁽¹⁾ - Pilar Lopez-Cotarelo⁽²⁾ - Charlotte Madore⁽¹⁾ - Scott Smith⁽¹⁾ - George Tweet⁽¹⁾ - Oleg Butovsky⁽¹⁾

Brigham And Women's Hospital, Harvard Medical School, Department Of Neurology, Boston, United States⁽¹⁾ - Consejo Superior De Investigaciones Científicas, Centro De Investigaciones Biológicas, Madrid, Spain⁽²⁾

312 - Microglia transiently clear prions from the brain after retroviral infection but do not change incubation time

Susanne Krasemann^(1,2) - Katharina Schroeck⁽¹⁾ - Charlotte Madore⁽²⁾ - Christiane Muth⁽¹⁾ - Kristin Hartmann⁽¹⁾ - Zain Fanek⁽²⁾ - Markus Glatzel⁽¹⁾ - Oleg Butovsky⁽²⁾

Institute Of Neuropathology, University Medical Center Hamburg-Eppendorf, Hamburg, Germany⁽¹⁾ - Brigham And Women's Hospital, Harvard Medical School, Department Of Neurology, Boston, United States⁽²⁾

314 - M2 microglia polarization: implications in neurodegenerative diseases

Giovanna Pepe⁽¹⁾ - Alessandro Villa⁽¹⁾ - Adriana Maggi⁽¹⁾ - Elisabetta Vegeto⁽¹⁾

University Of Milan, Department Of Pharmacological And Biomolecular Sciences, Milan, Italy⁽¹⁾

317 - An ATP-independent release of shedding vesicles from myeloid cells

Federico Colombo⁽¹⁾ - Annamaria Nigro⁽²⁾ - Giacomo Casella⁽³⁾ - Roberto Furlan⁽²⁾

Università Vita Salute San Raffaele, Institute Of Experimental Neurology, Milano, Italy⁽¹⁾ - Ospedale San Raffaele, Institute Of Experimental Neurology, Milano, Italy⁽²⁾ - Università Vita Salute San Raffaele, Institute Of Experimental Neurology, Milano, Italy⁽³⁾

321 - The form-function connection of M1/M2 microglia revisited

Beatrice Wasser⁽¹⁾ - Dirk Luchtman⁽¹⁾ - Kerstin Robohm⁽¹⁾ - Frauke Zipp⁽¹⁾ - Stefan Bittner⁽¹⁾

University Of Mainz, Neurology, Mainz, Germany⁽¹⁾

323 - The role of DJ-1 in mediating microglia activity toward alpha synuclein

Yuval Nash⁽¹⁾ - Eran Schmukler⁽²⁾ - Dorit Trudler⁽¹⁾ - Ronit Pinkas-kramarski⁽²⁾ - Dan Frenkel⁽²⁾

Tel Aviv University, Sagol School Of Neuroscience, Tel Aviv, Israel⁽¹⁾ - Tel Aviv University, Department Of Neurobiology, George S. Wise Faculty Of Life Sciences, Tel Aviv, Israel⁽²⁾

358 - Microglia mediate the anti-depressive effects of electroconvulsive shock therapy in mice exposed to chronic unpredictable stress

Neta Rimmerman⁽¹⁾ - Ronen Reshef⁽¹⁾ - Maayan Abargil⁽¹⁾ - Laura Cohen⁽¹⁾ - Raz Yirmiya⁽¹⁾

Department Of Psychology, The Hebrew University, Jerusalem, Israel.⁽¹⁾



361 - The farnesoid-X-receptor in myeloid cells controls central nervous system autoimmunity in an IL-10-dependent fashion

Martin Herold ⁽¹⁾ - Stephanie Hucke ⁽¹⁾ - Marie Liebmann ⁽¹⁾ - Nicole Freise ⁽²⁾ - Maren Lindner ⁽¹⁾ - Ann-katrin Fleck ⁽¹⁾ - Stefanie Zenker ⁽²⁾ - Stephanie Thiebes ⁽³⁾ - Juncal Fernandez-orth ⁽¹⁾ - Dorothea Bock ⁽⁴⁾ - Felix Luessi ⁽⁵⁾ - Sven G. Meuth ⁽¹⁾ - Frauke Zipp ⁽⁵⁾ - Bernhard Hemmer ⁽⁴⁾ - Daniel Robert Engel ⁽³⁾ - Johannes Roth ⁽²⁾ - Tanja Kuhlmann ⁽⁶⁾ - Heinz Wiendl ⁽¹⁾ - Luisa Klotz ⁽¹⁾

University Of Muenster, Neurology, Muenster, Germany ⁽¹⁾ - University Of Muenster, Immunology, Muenster, Germany ⁽²⁾ - University Duisburg-essen, Institute Of Experimental Immunology And Imaging, Essen, Germany ⁽³⁾ - Technical University Of Munich, Neurology, Munich, Germany ⁽⁴⁾ - University Of Mainz, Neurology, Mainz, Germany ⁽⁵⁾ - University Of Muenster, Institute Of Neuropathology, Muenster, Germany ⁽⁶⁾

381 - The role of microglia in adult neurogenesis

Ronen Reshef ⁽¹⁾ - Elena Kudryavitskay ⁽²⁾ - Haran Shani ⁽²⁾ - Neta Rimmerman ⁽¹⁾ - Adi Mizrahi ⁽²⁾ - Raz Yirmiya ⁽¹⁾
Dept. of Psychology, The Hebrew University of Jerusalem, Jerusalem, Israel ⁽¹⁾ - Dept of Neurobiology, The Hebrew University of Jerusalem ⁽²⁾

THE DOUBLE EDGED SWORD OF IMMUNITY IN NEURODEGENERATION

16.00 – 17.00 POSTER HALL: AGAM FOYER

22 - Relationship between microvesicles and free radicals in multiple sclerosis patients

Maira Gironi ⁽¹⁾ - Gloria Dalla Costa ⁽¹⁾ - Annamaria Finardi ⁽¹⁾ - Vittorio Martinelli ⁽¹⁾ - Giancarlo Comi ⁽¹⁾ - Roberto Furlan ⁽¹⁾

Fondazione Ospedale San Raffaele, milano, Ospedale San Raffaele, milano, Milano, - ⁽¹⁾

44 - T cells secretion of neurogenic factors is biased toward pro-astrogenesis on the expense of neuronal and oligodendroglial genesis in relapsing remitting multiple sclerosis

Karin Mausner-Fainberg ⁽¹⁾ - Arnon Karni ⁽²⁾

Neuroimmunology Laboratory, Department Of Neurology, Tel Aviv Medical Center, Mevaseret Zio, - ⁽¹⁾ - Neuroimmunology Laboratory, Department Of Neurology, Tel Aviv Medical Center, Mevaseret Zio, Israel ⁽²⁾

51 - Cellular investigations with human antibodies associated with the IgLON5 syndrome

Lidia Sabater ⁽¹⁾ - Jesús Planagumà ⁽²⁾ - Josep Dalmau ⁽³⁾ - Francesc Graus ⁽⁴⁾

Institut D'investigacions Biomediques August Pi I Sunyer (IDIBAPS). Fundació Clinic., Hospital Clinic De Barcelona/Neuroimmunology Group, Barcelona, Spain ⁽¹⁾ - Institut D'investigacions Biomediques August Pi I Sunyer (IDIBAPS)., Hospital Clinic De Barcelona/Neuroimmunology Group, Barcelona, Spain ⁽²⁾ - Institut D'investigacions Biomediques August Pi I Sunyer (IDIBAPS). Institució Catalana De Recerca (ICREA). University Of Pennsylvania, Usa, Hospital Clinic De Barcelona/neuroimmunology Group, Barcelona, Spain ⁽³⁾ - Institut D'investigacions Biomediques August Pi I Sunyer (IDIBAPS). Service Of Neurology, Hospital Clinic De Barcelona, University Of Barcelona, Hospital Clinic De Barcelona/Neuroimmunology Group, Barcelona, Spain ⁽⁴⁾

57 - Reactivity profile of plasma naturally occurring anti-tau antibodies evaluated using post-translationally modified tau forms

Lenka Hromadkova ^(1, 2, 3) - Michala Kolarova ^(1, 4) - Ales Bartos ^(1, 4) - Jan Ricny ⁽¹⁾ - Zuzana Bilkova ⁽³⁾

Department of Experimental Neurobiology and AD Center, National Institute of Mental Health, Klecany, Czech Republic ⁽¹⁾ - Faculty of Science, Charles University in Prague, Prague, Czech Republic ⁽²⁾ - Department of Biological and Biochemical Sciences, University of Pardubice, Pardubice, Czech Republic ⁽³⁾ - Third Faculty of Medicine, Charles University in Prague, Prague, Czech Republic ⁽⁴⁾



154 – TGF- β induces differential signaling in astrocytes and microglia

Ekaterina Vinogradov⁽¹⁾ - Nitzan Levy⁽¹⁾ - Alon Monsonego⁽¹⁾

Ben Gurion University Of The Negev, Shraga Segal Department Of Microbiology, Immunology, And Genetics, Beer Sheva, Israel⁽¹⁾

240 - Understanding Remyelination Failure: GM-CSF Blocks Oligodendrocyte Progenitor Cell Differentiation

Andrew Robinson⁽¹⁾ - Kyle Lyman⁽¹⁾ - Haley Titus⁽¹⁾ - William Lindstrom⁽¹⁾ - Igal Ifergan⁽¹⁾ - Joseph Podojil⁽¹⁾ - Stephen Miller⁽¹⁾

Northwestern University, Microbiology-immunology Department, Chicago, United States⁽¹⁾

305 - A new rodent model of progressive demyelination and neurodegeneration mimicking progressive MS

Erika Avendaño-Guzmán⁽¹⁾ - Benoit Barrette⁽²⁾ - Ramona Theiss⁽¹⁾ - Nielsen Lagumersindez- Denis⁽¹⁾ - Liat Hayardeny⁽³⁾ - Christine Stadelmann-Nessler⁽¹⁾ - Klaus-Armin Nave⁽²⁾ - Wolfgang Brück⁽¹⁾ - Stefan Nessler⁽¹⁾

University Medical Center, Neuropathology, Göttingen, Germany⁽¹⁾ - Max-Planck-Institute of Experimental Medicine, Neurogenetics, Göttingen, Germany⁽²⁾ - Teva Pharmaceutical Industries, Research And Development, Netanya, Israel⁽³⁾

353 - Innate Immune response in traumatic Spinal Cord Injury (SCI), killing or healing?

Masoud Hassanpour Golakani⁽¹⁾ - Mohammad Ghaleb Mohammad⁽²⁾ - Hui Li⁽¹⁾ - Manvendra Saxena⁽¹⁾ - Samuel Breit⁽¹⁾ - Marc Ruitenberg⁽³⁾ - Gill Webster⁽⁴⁾ - David Brown⁽¹⁾

St Vincent's Centre For Applied Medical Research (amr) / The University Of New South Wales (unsw), Laboratory Of Neuroinflammation, Sydney, Australia⁽¹⁾ - University Of Sharjah, Department Of Medical Laboratory Sciences, Faculty Of Health Sciences, Sharjah, United Arab Emirates⁽²⁾ - The University Of Queensland (uq), Queensland Brain Institute, Brisbane, Australia⁽³⁾ - Innate Immunotherapeutics, Innate Immunotherapeutics, Auckland, New Zealand⁽⁴⁾

371 - Microglia-astrocytic response to experimentally induced neurofibrillary degeneration in animal model of tauopathy

Peter Filipčík^(1,2) - Martin Cente^(1,2) - Norbert Zilka^(1,2) - Branislav Kovacech^(1,2) - Michal Novak^(1,2)

Institute of Neuroimmunology, Slovak Academy of Sciences, Dubravska cesta 9, 84510 Bratislava, Slovakia⁽¹⁾
Axon Neuroscience R&D Services, Dvorakovo nabrezie 10, 811 02 Bratislava, Slovakia⁽²⁾

Hot Topics

REVISITING B CELLS AND B CELL TARGETING IN NEUROIMMUNOLOGIC DISEASE

17.00 – 18.30 ROOM A: USSISHKIN

Chairs: Amit Bar-Or and Hans-Peter Hartung

17.00 BREIF INTRO/SESSION SCOPE AND OBJECTIVES

Amit Bar-Or, *McGill University (Montreal, Canada)*

17.03 B CELLS IN MS AND OTHER NEUROIMMUNE DISEASES

Hartmut Wekerle, *Max Planck Institute of Neurobiology (Martinsried, Germany)*

17.21 PERIPHERAL B CELL CONTRIBUTIONS TO MULTIPLE SCLEROSIS

Amit Bar-Or, *McGill University (Montreal, Canada)*



- 17.38 B CELLS AND TARGETING B CELL TRAFFICKING IN CNS INFLAMMATION**
 Scott Zamvil, *University of California (San Francisco, CA, USA)*
- 17.56 B CELLS IN CNS COMPARTMENTALIZED/MENINGEAL INFLAMMATION**
 Jennifer Gommerman, *University of Toronto (Toronto, Canada)*
- 18.13 THE UNIQUE CAPACITY OF VH4+ B CELLS TO RECOGNIZE GRAY MATTER TARGETS IN THE BRAIN**
 Nancy Monson, *UT Southwestern Medical Center (Dallas, TX, USA)*
-

PERSONALIZED NEUROIMMUNOLOGY/GENETIC AND IMMUNE BIOMARKERS TO INDIVIDUALIZE DIAGNOSIS AND TREATMENT IN NEUROIMMUNOLOGY
 17.00 – 18.30 ROOM B: SCHWARTZ

Chair: Ariel Miller

- 17.00 CLINICAL AND MRI PHENOTYPES FOR PERSONALIZATION OF THE TREATMENT OF MS PATIENTS**
 Xavier Montalban, *Vall d'Hebron University Hospital (Barcelona, Spain)*
- 17.18 DECIPHERING MS GENETICS TO IDENTIFY IMMUNE PATHWAYS**
 David Hafler, *Yale New Haven Hospital (New Haven, CT, USA)*
- 17.36 GENES MEET THE ENVIRONMENT: THE GUT MICROBIOME IN MS**
 Sergio Baranzini, *University of California San Francisco (San Francisco, CA, USA)*
- 17.54 THE QUEST FOR THE TARGET ANTIGENS OF MULTIPLE SCLEROSIS**
 Reinhard Hohlfeld, *Klinikum der LMU Muenchen (Munich, Germany)*
- 18.12 THE IMPACT OF ENVIRONMENTAL FACTORS, STRESS AND VITAMIN D IN MS**
 Ariel Miller, *Rappaport Faculty of Medicine, Technion – Israel Institute of Technology (Haifa, Israel)*
-

INDUSTRY SPONSORED WORKSHOPS
 17.00 – 18.30 ROOM C: ESHKOL



DAY 4 Thursday | September 29, 2016

Morning Session 08.30 – 13.00

Sponsored Workshop 08.00-08.40

Plenary Symposium

PATHOGENETIC IMMUNE MECHANISMS IN NEUROINFLAMMATION AND DEMYELINATION IN EAE AND MULTIPLE SCLEROSIS

08.40 – 10.40 ROOM A: USSISHKIN

Chairs: Jack Antel and Hartmut Wekerle

08.40 MENINGEAL IMMUNITY IN NEUROLOGICAL DISEASES
Jonathan Kipnis, *University of Virginia (Charlottesville, VA, USA)*

09.04 TISSUE INFLAMMATION: THE ROLE OF PATHOGENIC PHAGOCYTES
Burkhard Becher, *University of Zurich (Zurich, Switzerland)*

09.28 VARIABLE IMMUNOPATHOGENETIC PATTERNS IN CNS DEMYELINATING CONDITIONS
Hans Lassmann, *Medical University of Vienna (Vienna, Austria)*

09.52 IMMUNE REGULATORY NETWORKS IN NEUROINFLAMMATION AND THEIR POSSIBLE PHARMACOLOGICAL MODIFICATION
Heinz Wiendl, *University of Muenster (Muenster, Germany)*

10.15 ASTROCYTES AND MICROGLIA INTERPLAY IN AUTOIMMUNE DEMYELINATION
Jack Antel, *McGill University (Montreal, Canada)*

COFFEE BREAK & POSTER VIEW
10.40 – 11.00 POSTER HALL: AGAM FOYER



Concurrent Symposia

THE MICROBIOME AND EXTERNAL INFECTIOUS CHALLENGES IN NEUROIMMUNOLOGICAL DISEASES (A AND B)

11.00 – 13.00 ROOM A: USSISHKIN

Chair: Gurumoorthy Krishnamoorthy

A: THE MICROBIOME

11.00 MICROBIAL VIEW OF CENTRAL NERVOUS SYSTEM AUTOIMMUNITY

Gurumoorthy Krishnamoorthy, *Max Planck Institute of Biochemistry (Martinsried, Germany)*

11.22 METAGENOMIC CROSS-TALK: THE REGULATORY INTERPLAY BETWEEN IMMUNOGENOMICS AND THE MICROBIOME

Eran Elinav, *the Weizmann Institute of Science (Rehovot, Israel)*

11.44 YOU NEED GUTS TO MAKE NEW NEURONS – THE IMPACT OF GUT FLORA ON NEUROGENESIS

Susanne Wolf, *Max-Delbrueck-Center (Berlin, Germany)*

12.06 MICROBIOME IN MS

Howard Weiner, *Harvard Medical School, Brigham and Women's Hospital (Boston, MA, USA)*

12.28 A SHORT OVERVIEW OF THE MICROBIOME IN NMO

Scott Zamvil, *University of California (San Francisco, CA, USA)*

B: EXTERNAL INFECTIOUS CHALLENGES IN NEUROIMMUNOLOGICAL CONDITIONS

12.38 NEUROPATHOGENESIS AND NEUROIMMUNOLOGY OF HUMAN AFRICAN TRYPANOSOMIASIS (SLEEPING SICKNESS)

Peter Kennedy, *Glasgow University Department of Neurology (Glasgow, UK)*

VACCINES IN NEUROIMMUNOLOGY

11.00 – 13.00 ROOM B: SCHWARTZ

Chairs: Irun Cohen and Joab Chapman

11.00 BOOSTING IMMUNITY AS A NOVEL APPROACH FOR TREATING NEUROPSYCHIATRIC DISORDERS

Gil Lewitus, *Technion (Haifa, Israel)*



- 11.24 VACCINATION TECHNIQUES TO INDUCE ANTI-ERGOTYPIC AND ANTI-IDIOTYPIC T-CELL RESPONSES IN MS**
Irun Cohen, *the Weizmann Institute of Science (Rehovot, Israel)*
- 11.48 VACCINES FOR ALZHEIMER'S DISEASE: PAST, PRESENT AND FUTURE**
Alon Monsonego, *Ben-Gurion University (Beer-Sheva, Israel)*
- 12.12 VACCINATION-INDUCED NEUROINFLAMMATORY DISEASES**
Panayiota Petrou
- 12.36 VACCINATION-INDUCED "ASIA" (SHOENFELD) SYNDROME**
Shani Dahan

LESSONS FROM ANIMAL MODELS AND IMPLICATIONS IN THE PATHOGENESIS OF HUMAN NEUROINFLAMMATORY DISEASES
11.00 – 13.00 ROOM C: ESHKOL

Chair: Thomas Korn and Nathan Karin

- 11.00 THE ROLE OF CHEMOKINES AS AN IMMUNE CHECKPOINT IN CNS AUTOIMMUNITY**
Nathan Karin, *Rappaport Faculty of Medicine, Technion (Haifa, Israel)*
- 11.20 T CELLS AND CYTOKINES AS MEDIATORS OF NEUROINFLAMMATION AND AS TARGETS FOR IMMUNOTHERAPY**
Thomas Korn, *Technische Universitat Muenchen, Klinikum rechts der Isar (Munich, Germany)*
- 11.40 INNATE AND ADAPTIVE IMMUNE RESPONSES IN THE CNS**
Ari Waisman, *University Medical Center of the Johannes Gutenberg University (Mainz, Germany)*
- 12.00 THE EXTRACELLULAR MATRIX AND NEUROINFLAMMATION**
V. Wee Yong, *University of Calgary (Calgary, Canada)*
- 12.20 MICROVESICLES: WHAT IS THE ROLE IN MULTIPLE SCLEROSIS AND NEUROINFLAMMATION?**
Roberto Furlan, *San Raffaele Hospital (Milan, Italy)*
- 12.40 AUTOIMMUNE EPILEPSY AND AUTOIMMUNE NODDING SYNDROME: FROM GLUTAMATE RECEPTOR ANTIBODIES TO NEUROTOXICITY AND IMMUNOTOXICITY**
Mia Levite, *the Hebrew University (Jerusalem, Israel)*



SATELLITE SPONSORED LUNCH SYMPOSIUM
13.00 – 14.00 ROOM A: USSISHKIN

Afternoon Session 14.00-18.30

Keynote Lecture

THE IMMUNOLOGY LECTURE
14.00 – 14.45 ROOM A: USSISHKIN

Chairs: Michal Schwartz and Roberto Furlan

14.00 **PATHOGENIC MECHANISMS IN AUTOIMMUNE DISEASES OF THE CNS**
Roland Liblau, *Université Toulouse III (Toulouse, France)*

PATHOGENIC MECHANISMS OF NEUROINFLAMMATION AND DEMYELINATION IN EAE/MS
14.45 – 16.00 ROOM A: USSISHKIN

Chairs: Hugh Willison and Arnon Karni

14.45 **97 - HIGH DIMENSIONAL ANALYSIS OF THE MYELOID LANDSCAPE IN MULTIPLE SCLEROSIS**
Brian Leung, *Universität Zürich (Zürich, Switzerland)*

14.56 **138 - A UNIQUE TGF β 1-DRIVEN GENOMIC PROGRAM LINKS ASTROCYTOSIS, LOW-GRADE INFLAMMATION AND CHRONIC DEMYELINATION IN THE SPINAL CORD OF MULTIPLE SCLEROSIS**
Serge Nataf, *University Lyon-1 (Lyon, France)*

15.07 **219 - MICROVESICLES AS A POSSIBLE BIOMARKER FOR MICROGLIA ACTIVATION IN VIVO DURING PHASES OF DISEASE ACTIVITY IN MULTIPLE SCLEROSIS AND THEIR CORRELATION WITH DIFFERENT STAGES OF DISEASE COURSE**
Tommaso Croese, *San Raffaele Hospital (Milan, Italy)*

15.18 **277 - PHOSPHORYLATION OF ALPHAB-CRYSTALLIN SUPPORTS REACTIVE ASTROGLIOSIS IN DEMYELINATION**
Hedwich F. Kuipers, *Stanford University (Stanford, CA, USA)*



- 15.29 **52 - B CELL REPERTOIRE EXPANSION OCCURES IN MENINGEAL ECTOPIC LYMPHOID TISSUE**
 Klaus Lehmann-Horn, *University of California (San Francisco, CA, USA)*
- 15.40 **56 - ALCAM REGULATES B CELLS MIGRATION ACROSS THE BARRIERS OF THE CNS**
 Alexandre Prat, *Université de Montréal (Montreal, Canada)*
- 15.51 **346 - DOUBLE NEGATIVE (CD19+CD27-IGD-CD20-) B CELLS ARE UP-REGULATED IN AUTO-ANTIBODY ASSOCIATED NEUROLOGICAL DISEASES AND SHOW SIMILARITIES TO PLASMABLASTS ON A TRANSCRIPTOME LEVEL**
 Markus Kowarik, *Technische Universität Muenchen (Munich, Germany)*
-

REPAIR AND REGENERATION MECHANISMS IN NEUROIMMUNOLOGY

14.45 – 16.00 ROOM B: SCHWARTZ

Chairs: Tamir Ben-Hur and Ibrahim Kassis

- 14.45 **248 - ONCOSTATIN M SIGNALING IS ESSENTIAL FOR ROBUST REMYELINATION**
 Niels Hellings, *Hasselt University (Diepenbeek, Belgium)*
- 14.56 **81 – POSSIBLE ROLE OF MICRORNAS IN THE MODULATION OF NEUROINFLAMMATION BY MESENCHYMAL STEM CELLS**
 Chiara Marini, *Italian Institute of Technology (Genoa, Italy)*
- 15.07 **68 - PRICKLE1 AS POSITIVE REGULATOR OF OLIGODENDROCYTE DIFFERENTIATION**
 Rina Ilona Zilkha-Falb, *Sheba Medical Center (Ramat-Gan, Israel)*
- 15.18 **17 – HUMAN EMBRYONIC STEM CELL -DERIVED OLIGODENDROCYTE PROGENITOR CELLS PROVIDE LONG TERM IMMUNE-REGULATION AND PROTECTION IN A CHRONIC-RELAPSING MODEL OF MULTIPLE SCLEROSIS**
 Tamir Ben-Hur, *Hadassah Hebrew University Medical Center (Jerusalem, Israel)*
- 15.29 **20- INVESTIGATING THE ROLE OF ASTROCYTES' ANTI-EXCITOTOXICITY POTENTIAL FOR NEURONAL DAMAGE FORMATION IN EXPERIMENTAL AUTOIMMUNE ENCEPHALOMYELITIS – AN IN VIVO TWO-PHOTON IMAGING APPROACH**
 Volker Siffrin, *Charité – Universitätsmedizin Berlin (Berlin, Germany)*



15.40 **10 – THE ROLE OF ASTROCYTIC DOPAMINE D2 RECEPTOR IN NEUROINFLAMMATION: IMPLICATION FOR PARKINSON’S DISEASE**
Jiawei Zhou, Shanghai Institutes for Biological Sciences (Shanghai, Cina)

15.51 **240 - UNDERSTANDING REMYELINATION FAILURE: GM-CSF BLOCKS OLIGODENDROCYTE PROGENITOR CELL DIFFERENTIATION**
Andrew Robinson, Northwestern University (Chicago, IL, USA)

PERSONALIZED NEUROIMMUNOLOGY AND NOVEL IMAGING TECHNIQUES
 14.45 – 16.00 ROOM C: ESHKOL

Chairs: Aksel Siva and Alon Monsonego

14.45 **62 - MOLECULAR PROFILING OF DAMAGE AND REPAIR IN THE CSF BY TRANSLATING TRANSCRIPTOME DATA TO CSF PROTEOME**
Nellie Anne Martin, Odense University Hospital and Institute of Clinical Research (Odense, Denmark)

14.56 **308 - THERAPY WITH ECULIZUMAB FOR PATIENTS WITH PRIMARY P.CYS89TYR MUTATION IN THE CD59 GENE**
Dror Mevorach, Hebrew University – Hadassah Medical Center (Jerusalem, Israel)

15.07 **189 – INTRAVITAL IMAGING OF CALCIUM ACTIVITIES IN THE ENCEPHALITOGENTIC T CELLS DURING THEIR JOURNEY TO CNS**
Naoto Kawakami, Lmu Munich (Martinsried, Germany)

15.18 **264 - RETINA ATROPHY IS MORE PROMINENT IN THE EARLY PHASES OF MULTIPLE SCLEROSIS AND IS ASSOCIATED WITH CLINICAL DISEASE ACTIVITY: A COHORT STUDY**
Elena H. Martinez-Lapiscina, Hospital Clinic of Barcelona (Barcelona, Spain)

15.29 **320 - WIRING OR NETWORKING: ANATOMICAL AND FUNCTIONAL CHANGES IN THE VISUAL SYSTEM FOLLOWING OPTIC NEURITIS**
Netta Levin, Hadassah Hebrew University Medical Center (Jerusalem, Israel)

15.40 **373 - BRAIN LESION LOAD AND ANATOMIC DISTRIBUTION IN PATIENTS WITH JUVENILE CLINICALLY ISOLATED SYNDROME PREDICTS RAPID CONVERSION TO MULTIPLE SCLEROSIS**
Shay Menascu, Sheba Medical Center (Tel HaShomer, Israel)



- 15.51** **274 - TOWARDS AN IMPROVED CLASSIFICATION OF RELAPSING DEMYELINATING SYNDROMES OF THE CENTRAL NERVOUS SYSTEM IN CHILDREN**
 Yael Hacohen, *Great Ormond Street Hospital for Children (London, UK)*

POSTER SESSION

PATHOGENETIC IMMUNE MECHANISMS IN NEUROINFLAMMATION AND DEMYELINATION IN EAE AND MULTIPLE SCLEROSIS

16.00 – 17.00 POSTER HALL: AGAM FOYER

19 - NIK promotes the generation of functional encephalitogenic effector T-cells

Sonja M. Lacher⁽¹⁾ - Stefan Tenzer⁽²⁾ - Khalad Karram⁽¹⁾ - Beate Lorenz⁽³⁾ - Matthias Klein⁽²⁾ - Tobias Bopp⁽²⁾ - Esther von Stebut⁽³⁾ - Florian C. Kurschus⁽¹⁾ - Ari Waisman⁽¹⁾

Institute For Molecular Medicine, University Medical Center Of The Johannes-Gutenberg University Mainz, Mainz, Germany⁽¹⁾ - Institute For Immunology, University Medical Center Of The Johannes-Gutenberg University Mainz, Mainz, Germany⁽²⁾ - Department Of Dermatology, University Medical Center Of The Johannes-Gutenberg University Mainz, Mainz, Germany⁽³⁾

23 - The G-protein-coupled receptor EB12 is highly expressed in MS lesions and promotes early CNS migration of encephalitogenic Th17 cells in EAE

Florian Wanke⁽¹⁾ - Andrew L. Croxford⁽²⁾ - Sonja Moos⁽¹⁾ - André P. Heinen⁽¹⁾ - Stephanie Firmenich⁽¹⁾ - Denise Tischner⁽³⁾ - Yilang Tang⁽¹⁾ - Morad Zayoud⁽¹⁾ - Nicole Israel⁽¹⁾ - Khalad Karram⁽¹⁾ - Julia Bruttger⁽¹⁾ - Sonja Reißig⁽¹⁾ - Sonja Lacher⁽¹⁾ - Christian Reichhold⁽¹⁾ - Ilgiz A. Mufazalov⁽¹⁾ - Tanja Kuhlmann⁽⁴⁾ - Nina Wettschureck⁽³⁾ - Andreas W. Sailer⁽⁵⁾ - Klaus Rajewsky⁽⁶⁾ - Stefano Casola⁽⁷⁾ - Ari Waisman⁽¹⁾ - Florian C. Kurschus⁽¹⁾

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34 - DNA methylation changes in brains from Multiple Sclerosis patients

Lara Kular⁽¹⁾ - Maria Needhamsen⁽¹⁾ - Tatiana Kramarova⁽¹⁾ - David Gomez-cabrero⁽²⁾ - Ewoud Ewing⁽¹⁾ - Milena Z Adzemovic⁽¹⁾ - Jesper Tegnér⁽²⁾ - Lou Brundin⁽¹⁾ - Maja Jagodic⁽¹⁾

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35 - C-type lectin receptors modulate experimental autoimmune encephalomyelitis

Marie N'diaye⁽¹⁾ - Sevasti Flytzani⁽¹⁾ - Susanna Brauner⁽¹⁾ - Andreas Warnecke⁽¹⁾ - Lara Kular⁽¹⁾ - Eliane Piket⁽¹⁾ - Milena Z Adzemovic⁽¹⁾ - Michael R Daws⁽²⁾ - Tomas Olsson⁽¹⁾ - Andre Ortlieb Guerreiro-Cacais⁽¹⁾ - Maja Jagodic⁽¹⁾

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37 - DNA methylation profiles in four immune cell types from Multiple Sclerosis patients: shared and cell type-specific methylation changes

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42 - Autophagy-mediated antigen presentation in CNS autoimmunity

Christian W. Keller⁽¹⁾ - Christina Sina⁽¹⁾ - Giulia Ramelli⁽¹⁾ - Isaak Quast⁽¹⁾ - Christian Münz⁽¹⁾ - Jan D. Lünemann⁽¹⁾
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47 - Dysregulation of Repressor Element 1-Silencing Transcription factor in a mouse model of multiple sclerosis

Valentina Petrosino⁽¹⁾ - Stefania Criscuolo⁽²⁾ - Federica Buffolo⁽²⁾ - Fabrizia Cesca⁽²⁾ - Nicole Kerlero De Rosbo⁽¹⁾ - Fabio Benfenati⁽²⁾ - Antonio Uccelli⁽¹⁾

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48 - RNA-binding protein HuR regulates CCR6 expression on Th17 cells

Jing Chen⁽¹⁾ - Jennifer Martindale⁽²⁾ - Carole Cramer⁽³⁾ - Myriam Gorospe⁽²⁾ - Ulus Atasoy⁽⁴⁾ - Paul Drew⁽⁵⁾ - Shiguang Yu⁽¹⁾

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58 - T cell-mediated CNS autoimmunity can be initiated by myelin-reactive antibodies opsonizing CNS antigen

Silke Kinzel⁽¹⁾ - Sebastian Torke⁽¹⁾ - Claude C. Bernard⁽²⁾ - Patrice H. Lalive⁽³⁾ - Markus Reindl⁽⁴⁾ - Albert Saiz⁽⁵⁾ - Wolfgang Brück⁽¹⁾ - Martin Weber⁽¹⁾

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59 - Metabolism and autoimmunity: how protein catabolism modulates autoimmune inflammation

Andre Ortlieb Guerreiro-Cacais⁽¹⁾ - Rasmus Berglund⁽¹⁾ - Maja Jagodic⁽¹⁾ - Tomas Olsson⁽¹⁾
Karolinska Institutet, Department Of Clinical Neuroscience, Stockholm, Sweden⁽¹⁾

66 - Neutrophil perversion in demyelinating autoimmune diseases: mechanisms to medicine

Vallieres Luc⁽¹⁾ - Ryder Whittaker Hawkins⁽¹⁾ - Alexandre Patenaude⁽¹⁾ - Aline Dumas⁽¹⁾
Laval University, Molecular Medicine, Quebec, Canada⁽¹⁾



69 - Inflammation drives mitochondrial dysfunction and associated neurodegeneration in multiple sclerosis

Philip Nijland ⁽¹⁾ - Maarten Witte ⁽²⁾ - Richard Reynolds ⁽³⁾ - Jack Van Horssen ⁽¹⁾

Vu University Medical Center, Molecular Cell Biology And Immunology, Amsterdam, Netherlands ⁽¹⁾ - Institute Of Clinical Neuroimmunology, Ludwig-maximilians University, Munich, Germany ⁽²⁾ - Division Of Brain Sciences, Faculty Of Medicine, Imperial College London, London, United Kingdom ⁽³⁾

70 - Identification of vitamin D responsive multiple sclerosis susceptibility genes in CD4+ T cells

Tone Berge ⁽¹⁾ - Ina Brorson ^(1,2) - Ingvild Leikfoss ^(1,2) - Steffan Bos ^(1,2) - Christian Page ^(1,2) - Marte Gustavsen ⁽²⁾ - Anja Bjølgerud ^(1,2) - Trygve Holmøy ⁽³⁾ - Elisabeth Celius ⁽¹⁾ - Jan Damoiseaux ⁽⁴⁾ - Joost Smolders ⁽⁵⁾ - Hanne Harbo ^(1,2) - Anne Spurkland ⁽⁶⁾

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73 - In search of a model for studying alternate autoimmunity post anti- CD52 treatment

Yohannes Haile ⁽¹⁾ - Colin C. Anderson ⁽¹⁾

University Of Alberta, Alberta Diabetes Institute, Department Of Surgery, Edmonton, Canada ⁽¹⁾

79 - Allelic imbalance of multiple sclerosis susceptibility genes IKZF3 and IQGAP1 in human peripheral blood

Pankaj Kumar Keshari ⁽¹⁾ - Hanne F. Harbo ⁽¹⁾ - Kjell M Myhr ⁽²⁾ - Jan H Aarseth ⁽²⁾ - Steffan D Bos ⁽¹⁾ - Tone Berge ⁽¹⁾

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87 - Pathological heterogeneity in the multiple sclerosis post mortem cohort of the Netherlands Brain Bank relates to clinical course and gender

Inge Huitinga ⁽¹⁾ - Matthew Mason ⁽²⁾ - Nina Fransen ⁽³⁾ - Corbert Van Eden ⁽¹⁾ - Sabina Luchetti ⁽³⁾

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89 - Inflammasome activation and modulation in the central nervous system during multiple sclerosis and experimental autoimmune encephalomyelitis

Brienne Mckenzie ⁽¹⁾ - Manmeet Mamik ⁽²⁾ - Roobina Boghazian ⁽²⁾ - William Branton ⁽²⁾ - Jian-qiang Lu ⁽³⁾ - Christopher Power ⁽²⁾

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90 - Mechanisms of demyelination induced by lysolecithin

Jason Plemel ⁽¹⁾ - Nathan Michaels ⁽¹⁾ - Michael B. Keough ⁽¹⁾ - Jim Rogers ⁽¹⁾ - Aran Yukseloglu ⁽¹⁾ - Jaehyun Lim ⁽¹⁾ - Wulin Teo ⁽¹⁾ - Belinda Heyne ⁽²⁾ - Peter Stys ⁽¹⁾ - V. Wee Yong ⁽¹⁾

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91 - Investigating the role of EMMPRIN and its regulation of monocarboxylate transporters in a model of multiple sclerosis

Deepak K Kaushik⁽¹⁾ - Jennifer N Hahn⁽¹⁾ - V Wee Yong⁽¹⁾
Hotchkiss Brain Institute, University Of Calgary, Calgary, Canada⁽¹⁾

97 - High Dimensional Analysis of the Myeloid Landscape in Multiple Sclerosis

Brian Leung⁽¹⁾ - Raul Catena⁽²⁾ - Alonso Barrantes⁽³⁾ - Bettina Schreiner⁽¹⁾ - Terrence Town⁽⁴⁾ - Christine Stadelmann-nessler⁽³⁾ - Bernd Bodenmiller⁽²⁾ - Burkhard Becher⁽¹⁾
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98 - Antibodies from multiple sclerosis patients preferentially recognize hyperglucosylated adhesin of nontypeable Haemophilus influenzae

Chiara Testa⁽¹⁾ - Marthe T C Walvoort⁽²⁾ - Raya Eilam⁽³⁾ - Rina Ahroni⁽⁴⁾ - Ruth Arnon⁽⁴⁾ - Francesca Nuti⁽⁵⁾ - Feliciano Real-fernandez⁽¹⁾ - Roberta Lanzillo⁽⁶⁾ - Vincenzo Brescia Morra⁽⁶⁾ - Francesco Lolli⁽⁷⁾ - Paolo Rovero⁽¹⁾ - Barbara Imperiali⁽²⁾ - Anna Maria Papini⁽⁵⁾

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103 - Functional effects of antibodies specific for myelin proteolipid protein in multiple sclerosis

Judith Greer⁽¹⁾ - Elisabeth Trifilieff⁽²⁾ - Shannon Beasley⁽¹⁾ - Michael Pender⁽³⁾
The University Of Queensland, Uq Centre For Clinical Research, Brisbane, Australia⁽¹⁾ - Université De Strasbourg, Institut De Physique Biologique, Strasbourg, France⁽²⁾ - The University Of Queensland, Medicine, Brisbane, Australia⁽³⁾

108 - Anti-SPAG16 antibodies are associated with an elevated progression index in progressive multiple sclerosis

Laura de Bock⁽¹⁾ - Judith Fraussen⁽¹⁾ - Luisa M Villar⁽²⁾ - José C. Álvarez-Cermeño⁽²⁾ - Bart Van Wijmeersch⁽¹⁾ - Vincent van Pesch⁽³⁾ - Piet Stinissen⁽¹⁾ - Veerle Somers⁽¹⁾

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110 - Potential regulation of multiple sclerosis by gut homing CCR9+ TH cells

Atsushi Kadowaki⁽¹⁾ - Ryoko Saga⁽¹⁾ - Youwei Lin⁽¹⁾ - Wakiro Sato⁽¹⁾ - Takashi Yamamura⁽¹⁾
National Institute Of Neuroscience, National Center Of Neurology And Psychiatry, Department Of Immunology, Tokyo, Japan⁽¹⁾

112 - Neuronal response to Multiple Sclerosis

Sabina Berl⁽¹⁾ - Federico Marini⁽²⁾ - Harald Binder⁽²⁾ - Ari Waisman⁽¹⁾
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116 - LINGO-1, p75, TROY (NgR complex) spatiotemporal expression pattern in the spinal cord of EAE mice

Paschalis Theotokis ⁽¹⁾ - Olga Touloumi ⁽¹⁾ - Roza Lagoudaki ⁽¹⁾ - Evangelia Nousiopolou ⁽¹⁾ - Evangelia Kesidou ⁽¹⁾ - Athanasios Lourbopoulos ⁽²⁾ - Dimitrios Karacostas ⁽¹⁾ - Nikolaos Grigoriadis ⁽¹⁾
 Aristotle University Of Thessaloniki, Ahepa University Hospital, Thessaloniki, Greece ⁽¹⁾ - Center For Stroke And Dementia Research (csd), Biomedical Research Campus Lmu, Munich, Germany ⁽²⁾

119 - The equilibrium of M1/M2 macrophages is altered in multiple sclerosis and its experimental animal model

Valerio Chiurchiù ⁽¹⁾ - Alessandro Leuti ⁽¹⁾ - Antonietta Gentile ⁽¹⁾ - Maria Albanese ⁽²⁾ - Diego Fresegna ⁽¹⁾ - Silvia Bullitta ⁽¹⁾ - Diego Centonze ⁽³⁾ - Mauro Maccarrone ⁽⁴⁾ - Luca Battistini ⁽¹⁾
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124 - Post-translational modifications of MBP in the spinal cord in a mouse EAE model of MS

Ting Zhou ⁽¹⁾ - Tina Khorshid Ahmad ⁽²⁾ - Kiana Gozda ⁽²⁾ - Jessica Truong ⁽²⁾ - Ryan Lillico ⁽²⁾ - Nicholas Stesco ⁽²⁾ - Ted Lakowski ⁽²⁾ - Jiming Kong ⁽³⁾ - Mike Namaka ⁽¹⁾
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126 - Regulatory and effector T cells display a different profile of histamine production and histamine receptors expression

Massimo Costanza ⁽¹⁾ - Silvia Musio ⁽¹⁾ - Rosetta Pedotti ⁽¹⁾
 Neurological Institute Foundation Irccs C. Besta, Department Of Clinical Neuroscience, Milan, Italy ⁽¹⁾

127 - Granulocytic myeloid derived suppressor cells modulate central nervous system inflammation during experimental autoimmune encephalomyelitis and attenuate optic nerve atrophy

Benjamin Knier ⁽¹⁾ - Michael Hiltensperger ⁽²⁾ - Christopher Sie ⁽²⁾ - Lilian Aly ⁽¹⁾ - Uwe Koedel ⁽³⁾ - Bernhard Hemmer ⁽⁴⁾ - Thomas Korn ⁽¹⁾
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129 - Increased Granulocyte-Macrophage Colony-Stimulating Factor Expression by Immune Cells in Multiple Sclerosis

Cris Constantinescu ⁽¹⁾ - Jehan Aram ⁽¹⁾ - Bruno Gran ⁽¹⁾
 University Of Nottingham, Neuroscience, Nottingham, United Kingdom ⁽¹⁾

132 - Understanding the role of pathogenic CD8 positive T cells in a novel mouse model of multiple sclerosis

Prenitha Mercy Ignatius Arokia Doss ⁽¹⁾ - Ana C Anderson ⁽²⁾ - Manu Rangachari ⁽¹⁾
 Centre Hospitalier De L'université Laval (chul), Laval University, Quebec City, Canada ⁽¹⁾ - Brigham And Women's Hospital, Harvard Medical School, Boston, United States ⁽²⁾



138 - A unique TGFbeta-1-driven genomic program links astrocytosis, low-grade inflammation and chronic demyelination in the spinal cord of multiple sclerosis patients

Serge Nataf⁽¹⁾ - Catherine Grego⁽²⁾ - Laurent Pays⁽³⁾

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140 - Defining the role of NG2 in CNS inflammation

Maja Kitic⁽¹⁾ - Khalad Karram⁽¹⁾ - Nicole Israel⁽¹⁾ - Jan Bauer⁽²⁾ - Florian C. Kurschus⁽¹⁾ - Ari Waisman⁽¹⁾

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153 - ROS-initiated calcium-influx drives axonal degeneration in an animal model of multiple sclerosis

Maarten E. Witte⁽¹⁾ - Adrian-Minh Schumacher⁽¹⁾ - Christoph Mahler⁽¹⁾ - Jan Bewersdorff⁽¹⁾ - Philip R. Williams⁽²⁾ - Oliver Griesbeck⁽³⁾ - Thomas Misgeld^{(2,4,5,)*} - Martin Kerschensteiner^{(1,4)*}

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157 - Mimetic nerve growth factor tropomyosin receptor kinase A agonist non peptide molecule treats acute and chronic experimental autoimmune encephalomyelitis

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159 - Type I interferon signaling modulates antibody-mediated demyelination

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163 - Innate glial interferons regulate CNS inflammation

Ruthe Dieu⁽¹⁾ - Reza Khorrooshi⁽¹⁾ - Anne Mariboe⁽¹⁾ - Marie-louise Hyre Arpe⁽¹⁾ - Trevor Owens⁽¹⁾

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170 - Proliferation and activation state of T cells in Multiple Sclerosis Lesions

Joana Machado-Santos⁽¹⁾ - Etsuji Saji⁽²⁾ - Jan Bauer⁽¹⁾ - Hans Lassmann⁽¹⁾

Center For Brain Research, Medical University Of Vienna, Vienna, Austria⁽¹⁾ - Brain Research Institute, Niigata University, Niigata, Japan⁽²⁾



182 - Integrative transcriptomics and proteomics analysis reveals a potential role for serpinA3 and s100A4 in the neurodegeneration process during experimental autoimmune encephalomyelitis

Nicolas Fissolo ⁽¹⁾ - Berta Miró ⁽²⁾ - Clara Matute-blanch ⁽¹⁾ - Sunny Malhotra ⁽¹⁾ - Alex Sanchez ⁽²⁾ - Shohreh Issazadeh-navikas ⁽³⁾ - Xavier Montalban ⁽¹⁾ - Manuel Comabella ⁽¹⁾

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188 - Importance of very late antigen 4 and melanoma cell adhesion molecule for the CNS infiltration of encephalitogenic CD4+ T cells

Johanna Breuer ⁽¹⁾ - Tilman Schneider-Hohendorf ⁽¹⁾ - Sebastian Herich ⁽¹⁾ - Ken Flanagan ⁽²⁾ - Tanja Kuhlmann ⁽³⁾ - Heinz Wiendl ⁽¹⁾ - Nicholas Schwab ⁽¹⁾

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191 - Modulation of monocytes by bioactive lipid anandamide in multiple sclerosis involves distinct Toll-like receptors

Alessandro Leuti ⁽¹⁾ - Valerio Chiurchiù ⁽¹⁾ - Maria Teresa Cencioni ⁽²⁾ - Diego Centonze ⁽³⁾ - Maria Albanese ⁽⁴⁾ - Marco De Bardi ⁽¹⁾ - Luca Battistini ⁽¹⁾ - Mauro Maccarrone ⁽⁵⁾

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202 - Expression of IL-1beta in rhesus EAE and MS lesions is mainly induced in the CNS itself

Saskia Burm ⁽¹⁾ - Laura Peferoen ⁽²⁾ - Ella Zuiderwijk-sick ⁽¹⁾ - Krista Haanstra ⁽³⁾ - Bert 't Hart ⁽³⁾ - Paul Van Der Valk ⁽²⁾ - Sandra Amor ⁽²⁾ - Jan Bauer ⁽⁴⁾ - Jeffrey Bajramovic ⁽¹⁾

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204 - The signaling strength of PI3-Kinase determines pathogenicity of T helper cells in autoimmunity

Sonja Moos ⁽¹⁾ - Daniele Ielo ⁽¹⁾ - Florian Wanke ⁽¹⁾ - Stephanie Graef ⁽¹⁾ - André P. Heinen ⁽¹⁾ - Morad Zayoud ⁽¹⁾ - Khalifa El Malki ⁽¹⁾ - Katrin Frauenknecht ⁽²⁾ - Sonja Reissig ⁽¹⁾ - Jean-Christophe Renaud ⁽³⁾ - Klaus Rajewsky ⁽⁴⁾ - Ari Waisman ⁽¹⁾ - Florian C. Kurschus ⁽¹⁾

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219 - Microvesicles as a possible biomarker for microglia activation in vivo during phases of disease activity in Multiple Sclerosis and their correlation with different stages of disease course

Tommaso Croese ⁽¹⁾ - Marco Pisa ⁽¹⁾ - Annamaria Finardi ⁽²⁾ - Vittorio Martinelli ⁽¹⁾ - Giancarlo Comi ⁽¹⁾ - Roberto Furlan ⁽²⁾ San Raffaele Hospital, Department Of Neurology, Milan, Italy ⁽¹⁾ - San Raffaele Hospital, Department Of Clinical Neuroimmunology, Milan, Italy ⁽²⁾



226 - Genome-wide analysis reveals a unique transcriptional signature regulated by interleukin-1beta during differentiation of T helper 17 cells

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Neuroimmunology Unit, Santa Lucia Foundation, Rome, Italy⁽¹⁾ - Neuroembriology Unit, Santa Lucia Foundation, Rome Italy and Dept. of Biomedicine and Prevention, University of Rome Tor Vergata.⁽²⁾

227 - Role of Toll-like receptor 2 in mediating infection and inflammation in Multiple Sclerosis

Md Jakir Hossain⁽¹⁾ - Elena Morandi⁽¹⁾ - Radu Tanasescu⁽¹⁾ - Cris S Constantinescu⁽¹⁾ - Tola A. Faraj⁽²⁾ - Clett Erridge⁽²⁾ - Bruno Gran⁽¹⁾

University Of Nottingham, Division Of Clinical Neuroscience, School Of Medicine, Queen's Medical Centre, NG7 2UH, Nottingham, United Kingdom⁽¹⁾ - University Of Leicester, Department Of Cardiovascular Sciences, Clinical Sciences Wing, Glenfield General Hospital, LE3 9QP, Leicester, United Kingdom⁽²⁾

233 - Molecular mechanisms underlying the pathogenic function of IL-23 in autoimmune neuroinflammation

Melania Balzarolo⁽¹⁾ - Andrew L Croxford⁽¹⁾ - Tom Hartwig⁽¹⁾ - Pawel Pelczar⁽²⁾ - Burkhard Becher⁽¹⁾

Institute Of Experimental Immunology, University Of Zurich, Zurich, Switzerland⁽¹⁾ - Center For Transgenic Models, University Of Basel, Basel, Switzerland⁽²⁾

238 - miR-155-3p and heat shock protein 40 genes regulate T helper cell 17 development during autoimmune demyelination

Marcin P. Mycko⁽¹⁾ - Maria Cichalewska⁽¹⁾ - Hanna Cwiklinska⁽¹⁾ - Krzysztof W. Selmaj⁽¹⁾

Medical University Of Lodz, Department Of Neurology, Laboratory Of Neuroimmunology, Lodz, Poland⁽¹⁾

241 - Loss of oligodendrocyte connexins aggravates experimental autoimmune encephalomyelitis

Kleopas Kleopa⁽¹⁾ - Christos Papaneophytou⁽¹⁾ - Elena Georgiou⁽¹⁾ - Irene Sargiannidou⁽¹⁾ - Charles Abrams⁽²⁾

The Cyprus Institute Of Neurology And Genetics, The Cyprus School Of Molecular Medicine, Neuroscience Laboratory And Neurology Clinics, Nicosia, Cyprus⁽¹⁾ - The University Of Illinois At Chicago, Neurology And Rehabilitation, College Of Medicine, Chicago, United States⁽²⁾

251 - Dysregulation of regulatory CD56bright NK cells/T cells interactions in multiple sclerosis

Alice Laroni⁽¹⁾ - Eric Armentani⁽¹⁾ - Nicole Kerlero De Rosbo⁽¹⁾ - Federico Ivaldi⁽¹⁾ - Emanuela Marcenaro⁽²⁾ - Simona Sivori⁽²⁾ - Roopali Gandhi⁽³⁾ - Howard L. Weiner⁽³⁾ - Alessandro Moretta⁽²⁾ - Giovanni L. Mancardi⁽¹⁾ - Antonio Uccelli⁽¹⁾

University Of Genova, Department Of Neuroscience, Rehabilitation, Ophthalmology, Genetics, Maternal And Child Health, Genova, Italy⁽¹⁾ - University Of Genova, Department Of Experimental Medicine, Genova, Italy⁽²⁾ - Brigham And Women's Hospital And Harvard Medical School, Ann Romney Center For Neurologic Diseases, Boston, United States⁽³⁾

257 - IRF4 but not ROR-gammat is indispensable for pathogenic Th17 cell development and maintenance

Ilgiz Mufazalov⁽¹⁾ - Laureen Gabriel⁽¹⁾ - Christopher Hackenbruch⁽¹⁾ - Tommy Regen⁽¹⁾ - Janina Kuschmann⁽¹⁾ - Florian Wanke⁽¹⁾ - Nir Yogev⁽¹⁾ - Ulf Klein⁽²⁾ - Dan Littman⁽³⁾ - Tobias Bopp⁽⁴⁾ - Florian Kurschus⁽¹⁾ - Ari Waisman⁽¹⁾

Institute For Molecular Medicine, Jg University Mainz, Mainz, Germany⁽¹⁾ - Herbert Irving Comprehensive Cancer Center, Columbia University, New York, United States⁽²⁾ - The Kimmel Center For Biology And Medicine Of The Skirball Institute And The Howard Hughes Medical Institute, New York University School Of Medicine, New York, United States⁽³⁾ - Institute For Immunology, Jg University Mainz, Mainz, Germany⁽⁴⁾



262 - The role of integrins in the control of Th1 and Th17 cell dynamics in the central nervous system during experimental autoimmune encephalomyelitis

Silvia Dusi⁽¹⁾ - Barbara Rossi⁽¹⁾ - Stefano Angiari⁽¹⁾ - Tommaso Carlucci⁽¹⁾ - Gabriela Constantin⁽¹⁾
University Of Verona, Department Of Medicine, Verona, Italy⁽¹⁾

265 - Inhibition of hyaluronan synthesis using 4-methylumbelliferone restores immune tolerance in CNS autoimmunity

Hedwich F. Kuipers⁽¹⁾ - Mary Rieck⁽¹⁾ - Irina Gurevich⁽²⁾ - Nadine Nagy⁽¹⁾ - Manish Butte⁽²⁾ - Thomas Wight⁽³⁾ - Lawrence Steinman⁽⁴⁾ - Paul Bollyky⁽¹⁾
Stanford University, Medicine, Stanford, CA, United States⁽¹⁾ - Stanford University, Pediatrics, Stanford, CA, United States⁽²⁾ - Benaroya Research Institute, Matrix Biology Program, Seattle, WA, United States⁽³⁾ - Stanford University, Neurology and Neurological Sciences, Stanford, CA, United States⁽⁴⁾

277 - Phosphorylation of alphaB-crystallin supports reactive astrogliosis in demyelination

Hedwich F. Kuipers⁽¹⁾ - Jane Yoon⁽¹⁾ - Johannes Winderl⁽¹⁾ - Jack Van Horssen⁽²⁾ - May Han⁽¹⁾ - Theo Palmer⁽³⁾ - Lawrence Steinman⁽¹⁾
Stanford University, Neurology and Neurological Sciences, Stanford, CA, United States⁽¹⁾ - VU University Medical Center, Molecular Cell Biology and Immunology, Amsterdam, Netherlands⁽²⁾ - Stanford University, Neurosurgery, Stanford, CA, United States⁽³⁾

278 - FoxP3+ regulatory T cells use heparanase to strip IL-2 from the extracellular matrix at sites of autoimmune inflammation

Hedwich F. Kuipers⁽¹⁾ - Ben Falk⁽²⁾ - Kathleen Braun⁽²⁾ - Michael Kinsella⁽²⁾ - Israel Vlodavsky⁽³⁾ - Gerald Nepom⁽⁴⁾ - Thomas Wight⁽²⁾ - Paul Bollyky⁽¹⁾
Stanford University, Medicine, Stanford, CA, United States⁽¹⁾ - Benaroya Research Institute, Matrix Biology Program, Seattle, WA, United States⁽²⁾ - Technion-Israel Institute of Technology, Cancer & Vascular Biology Research Center, Haifa, Israel⁽³⁾ - Benaroya Research Institute, Diabetes Research Program, Seattle, WA, United States⁽⁴⁾

266 - IL-17 differentially modulates CNS autoimmunity in a cell type-specific way

Tommy Regen⁽¹⁾ - Judith Hauptmann⁽¹⁾ - Ari Waisman⁽¹⁾
University Medical Center Of The Johannes Gutenberg University, Institute For Molecular Medicine, Mainz, Germany⁽¹⁾

276 - Defective Induction of Tolerogenic Myeloid DCs by IL-27 in Relapsing MS encompass multiple immune check points molecules

Felipe Von Glehn⁽¹⁾ - Gopal Murugayan⁽¹⁾ - Keren Regev⁽¹⁾ - Vanessa Beynon⁽¹⁾ - Chantal Kuhn⁽¹⁾ - Maria Antonietta Mazzola⁽¹⁾ - Sushrut Jangi⁽¹⁾ - Pia Kivisakk⁽¹⁾ - Roopali Gandhi⁽¹⁾ - Howard Weiner⁽¹⁾ - Clare Baecher-Allan⁽¹⁾
Brigham And Women's Hospital, Harvard Medical School/ Department Of Neurology, Boston, United States⁽¹⁾

295 - Priming of pathogenic lymphocytes: Role of CCR2+ Ly6Chi Monocytes

Ana Amorim⁽¹⁾ - Andrew L. Croxford⁽¹⁾ - Sarah Mundt⁽¹⁾ - Burkhard Becher⁽¹⁾
Institute Of Experimental Immunology, University Of Zürich, Zurich, Switzerland⁽¹⁾



296 - Epigenomic changes in monocytes from MS patients with high Body Mass Index and related murine EAE model

Kamilah Castro ⁽¹⁾ - Maria Petracca ⁽²⁾ - Yunjiao Zhu ⁽¹⁾ - Mar Gacias ⁽¹⁾ - Corey T Watson ⁽¹⁾ - Peter Kosa ⁽³⁾ - Tamjeed Sikder ⁽¹⁾ - Jessica Zhang ⁽¹⁾ - Payal Naik ⁽¹⁾ - Yadira Bencosme ⁽²⁾ - Shelly Phelps ⁽²⁾ - Michael Kiebish ⁽⁴⁾ - Andrew Sharp ⁽¹⁾ - Bibi Bielekova ⁽³⁾ - Matilde Inglese ⁽²⁾ - Ilana Katz Sand ⁽²⁾ - Patrizia Casaccia ⁽¹⁾

Icahn School Of Medicine At Mount Sinai, Neuroscience, New York, United States ⁽¹⁾ - Icahn School Of Medicine At Mount Sinai, Neurology, New York, United States ⁽²⁾ - National Institute Of Neurological Disorders And Stroke, Neurology, Bethesda, United States ⁽³⁾ - Berg Health, Inc, Neurology, Framingham, United States ⁽⁴⁾

297 - The gateway reflexes, novel neuro-immune interactions, are critical for the development of mouse models of multiple sclerosis

Daisuke Kamimura ⁽¹⁾ - Yasunobu Arima ⁽¹⁾ - Andrea Stofkova ⁽¹⁾ - Naoki Nishikawa ⁽¹⁾ - Yukihiro Sakashita ⁽¹⁾ - Kotaro Higuchi ⁽¹⁾ - Takuto Ohki ⁽¹⁾ - Masaaki Murakami ⁽¹⁾

Molecular Neuroimmunology, Institute For Genetic Medicine, Graduate School Of Medicine, Hokkaido University, Sapporo, Japan ⁽¹⁾

300 - B Cells from Blood of Patients with Relapsing Remitting Multiple Sclerosis Induce Death in Human and Rat Neurons

Robert Lisak ⁽¹⁾ - Liljana Nedelkoska ⁽¹⁾ - Hanane Touil ⁽²⁾ - Joyce Benjamins ⁽¹⁾ - Rui Li ⁽²⁾ - Amit Bar-or ⁽²⁾

Department Of Neurology, Wayne State University School Of Medicine, Detroit, Mi, United States ⁽¹⁾ - Department Of Neurology, Mcgill University, Montreal, Canada ⁽²⁾

301 - Micromilieu CNS requirements for the induction of a CD8 T cell-mediated attack on oligodendrocytes

Monica Sanchez-Ruiz ⁽¹⁾ - Noelle K. Polakos ⁽²⁾ - Tobias Blau ⁽¹⁾ - Sandra Maier ⁽¹⁾ - Thomas Hünig ⁽²⁾ - Martina Deckert ⁽¹⁾

Department Of Neuropathology, University Hospital Of Cologne, Cologne, Germany ⁽¹⁾ - Institute For Virology And Immunobiology, University Of Würzburg, Würzburg, Germany ⁽²⁾

304 - Bone morphogenetic protein signaling as a potential therapeutic target for multiple sclerosis

Herena Eixarch ^(1,2) - Laura C. Barreiro ^(1,2) - Mireia Castillo ^(1,2) - Ana Gutierrez-Franco ^(1,2) - Vanessa Gil ^(3,4,5,6) - Jose Antonio Del Río ^(3,4,5,6) - Xavier Montalban ^(1,2) - Carmen Espejo ^(1,2)

Servei de Neurologia-Neuroimmunologia, Centre d'Esclerosi Múltiple de Catalunya, Vall d'Hebron Institut de Recerca, Hospital Universitari Vall d'Hebron, Barcelona, Spain⁽¹⁾ - Universitat Autònoma de Barcelona, 08193 Bellaterra (Cerdanyola del Vallès), Spain⁽²⁾ - Molecular and Cellular Neurobiotechnology, Institute for Bioengineering of Catalonia (IBEC), Parc Científic de Barcelona, Barcelona, Spain⁽³⁾ - Department of Cell Biology, Physiology and Immunology, Universitat de Barcelona, Barcelona, Spain⁽⁴⁾ - Centro de Investigación Biomédica en Red sobre Enfermedades Neurodegenerativas (CIBERNED), Barcelona, Spain⁽⁵⁾ - Institut de Neurociències Universitat de Barcelona, Barcelona, Spain⁽⁶⁾

307 - Immunoglobulins G with oxidoreductase activity of patients with schizophrenia and multiple sclerosis

Lev Sinianskij ⁽¹⁾ - Liudmila Smirnova ⁽²⁾ - Nina Krotenko ⁽¹⁾ - Irina Mednova ⁽¹⁾ - Evgeniy Ermakov ⁽³⁾ - Marina Titova ⁽⁴⁾ - Valentina Alifirova ⁽⁴⁾ - Arkadiy Semke ⁽²⁾ - Svetlana Ivanova ⁽²⁾

Mental Health Research Institute, Siberian State Medical University, Tomsk, Russian Federation ⁽¹⁾ - Mental Health Research Institute, Laboratory Of Molecular Genetics And Biochemistry, Tomsk, Russian Federation ⁽²⁾ - Novosibirsk State University, Department Of Molecular Biology, Novosibirsk, Russian Federation ⁽³⁾ - Siberian State Medical University, Department Of Neurology And Neurosurgery, Tomsk, Russian Federation ⁽⁴⁾



332 - Amelioration of neuroinflammation by the alpha 7 nicotinic acetylcholine receptor allosteric agonist and positive allosteric modulator GAT107

Tehila Mizrachi ⁽¹⁾ - Karen Bursin ⁽¹⁾ - Yael Ben-david ⁽²⁾ - Abhijit R. Kulkarni ⁽³⁾ - Thakur A. Ganesh ⁽³⁾ - Adi Vaknin ⁽¹⁾ - Millet Treinin ⁽²⁾ - Talma Brenner ⁽¹⁾

Hadassah Medical Center, Neurology, Jerusalem, Israel ⁽¹⁾ - Hebrew University Medical School, Medical Neurobiology, Jerusalem, Israel ⁽²⁾ - School Of Pharmacy, Northeastern University, Pharmaceutical Sciences, Boston, United States ⁽³⁾

354 - Factor X inhibition ameliorates experimental autoimmune encephalomyelitis

Monika Merker ⁽¹⁾ - Susann Pankratz ⁽¹⁾ - Alexander Herrmann ⁽¹⁾ - Heinz Wiendl ⁽¹⁾ - Christoph Kleinschnitz ⁽²⁾ - Kerstin Göbel ⁽¹⁾ - Sven G. Meuth ⁽¹⁾

Department Of Neurology, University Hospital Muenster, Muenster, Germany ⁽¹⁾ - Department Of Neurology, University Hospital Wuerzburg, Wuerzburg, Germany ⁽²⁾

355 - The nuclear receptor Nur77 restricts T cell responses and limits central nervous system autoimmunity

Marie Liebmann ⁽¹⁾ - Stephanie Hucke ⁽¹⁾ - Tanja Kuhlmann ⁽²⁾ - Heinz Wiendl ⁽¹⁾ - Luisa Klotz ⁽¹⁾

Department Of Neurology, University Hospital Muenster, Muenster, Germany ⁽¹⁾ - Institute For Neuropathology, University Of Muenster, Muenster, Germany ⁽²⁾

367 - Delayed onset and reduced disease severity of spontaneous central nervous system autoimmunity by conjugated linoleic acid-rich diet

Stephanie Hucke ⁽¹⁾ - Marvin Hartwig ⁽¹⁾ - Ann-Katrin Fleck ⁽¹⁾ - Matrin Herold ⁽¹⁾ - Kerstin Berer ⁽²⁾ - Marie Liebmann ⁽¹⁾ - Ivan Kuzmanov ⁽¹⁾ - Berit Grützke ⁽¹⁾ - Angelos Sagredos ⁽³⁾ - Maria Eveslage ⁽⁴⁾ - Catharina C. Gross ⁽¹⁾ - Gurumoorthy Krishnamoorthy ⁽²⁾ - Tanja Kuhlmann ⁽⁵⁾ - Heinz Wiendl ⁽¹⁾ - Luisa Klotz ⁽¹⁾

Department Of Neurology, University Of Muenster, Muenster, Germany ⁽¹⁾ - Department Of Neuroimmunology, Max Planck Institute Of Neurobiology, Martinsried, Germany ⁽²⁾ - Trofocell Research And Trade GmbH, Trofocell Research And Trade GmbH, Hamburg, Germany ⁽³⁾ - Institute Of Biostatistics And Clinical Research, University Of Muenster, Muenster, Germany ⁽⁴⁾ - Department Of Neuropathology, University Of Muenster, Muenster, Germany ⁽⁵⁾

382 - Electrophysiological brain networks in patients with Multiple Sclerosis: an exploratory study TMS-EEG study

Vasilios K Kimiskidis ⁽¹⁾ - Vasilios Papaliagkas ⁽¹⁾ - Zoi Kouvatsoy ⁽²⁾ - Elvira Masoura ⁽²⁾ - Christos Koutlis ⁽³⁾ - Elsa Siggiridou ⁽³⁾ - Maria Karagianni ⁽²⁾ - Georgia Zafeiridou ⁽¹⁾ - Maria-Heleni Kosmidis ⁽²⁾ - Grigorios Kioseoglou ⁽²⁾ - Dimitris Kugiumtzis ⁽³⁾

Laboratory of Clinical Neurophysiology, AHEPA University Hospital, Thessaloniki, Thessaloniki 54124, Greece ⁽¹⁾ - Department of Psychology, Aristotle University of Thessaloniki, Thessaloniki 54124, Greece ⁽²⁾ - Department of Electrical and Computer Engineering, Aristotle University of Thessaloniki, Thessaloniki 54124, Greece ⁽³⁾

384 - Chondroitin sulfate proteoglycans in perivascular cuffs: A novel mediator of neuroinflammation in multiple sclerosis

Erin Stephenson ⁽¹⁾ - Manoj Mishra ⁽¹⁾ - Daniel Moussienko ⁽¹⁾ - V. Wee Yong
University of Calgary, Canada⁽¹⁾



THE ROLE OF B CELLS AND B-CELL, TARGETING TREATMENT IN MS (AND OTHER NEUROIMMUNE DISEASE-REVISITED)

16.00 – 17.00 POSTER HALL: AGAM FOYER

21 - Intra-thecal methotrexate therapy for progressive multiple sclerosis: the effect on disability cognition and cerebrospinal fluid cellular and antibodies content

Karin Mausner-Fainberg⁽¹⁾ - Hadar Kolb⁽¹⁾ - Keren Regev⁽¹⁾ - Moran Penn^(1,2) - Meir Kestenbaum⁽¹⁾ - Avi Gadoth⁽¹⁾ - Arnon Karni^(1,2)

Neuroimmunology Laboratory, Department of Neurology, Tel Aviv Sourasky Medical Center, Tel Aviv, Israel⁽¹⁾ - Sackler's Faculty of Medicine, Tel Aviv University, Tel Aviv, Israel⁽²⁾

24 - B cell-derived IL-10 regulates pro-inflammatory activity of myeloid cells in a clinically meaningful manner

Sebastian Torke⁽¹⁾ - Silke Kinzel⁽¹⁾ - Wolfgang Brück⁽¹⁾ - Martin S Weber⁽¹⁾

Institute Of Neuropathology, University Medical Center, Goettingen, Germany⁽¹⁾

25 - Enrichment of B cells with pro-inflammatory properties following anti-CD20 mediated B cell depletion in an EAE model actively involving B cells

Linda Feldmann⁽¹⁾ - Claude C.A. Bernard⁽²⁾ - Wolfgang Brück⁽¹⁾ - Martin S. Weber⁽¹⁾

Neuropathology Göttingen, University Medical Center Göttingen, Göttingen, Germany⁽¹⁾ - Monash Immunology And Stem Cell Laboratories,, Monash University, Monash, Australia⁽²⁾

26 - In vivo dimethyl fumarate treatment enhances the ability of B cells to present antigen

Sarah Traffehn⁽¹⁾ - Imke Metz⁽¹⁾ - Wolfgang Brück⁽¹⁾ - Martin S. Weber⁽¹⁾

Department Of Neuropathology, University Medical Center, Göttingen, Germany⁽¹⁾

56 - ALCAM regulates B cells migration across the barriers of the CNS

Laure Michel⁽¹⁾ - Camille Grasmuck⁽¹⁾ - Evelyn Peelen⁽¹⁾ - Marc Charabati⁽¹⁾ - Marc-andré Lécuyer⁽¹⁾ - Lyne Bourbonnière⁽¹⁾ - Sandra Larouche⁽¹⁾ - Pierre Duquette⁽¹⁾ - Amit Bar-or⁽²⁾ - Jennifer Gommerman⁽³⁾ - Alexandre Prat⁽¹⁾
Crchum, Univeristé De Montréal, Montréal, Canada⁽¹⁾ - Department Of Neurologu, Mcgill University, Montréal, Canada⁽²⁾ - Department Of Immunology, University Of Toronto, Toronto, Canada⁽³⁾

131 - CNS-derived APRIL triggers IL-10 production from astrocytes in multiple sclerosis

Patrice Lalive⁽¹⁾ - Laurie Baert⁽²⁾ - Natalia Popa⁽³⁾ - Madhia Benkhoucha⁽¹⁾ - Benoit Manfroi⁽²⁾ - Jean Boutonnat⁽⁴⁾ - Gilda Raguenez⁽³⁾ - Marine Tessier⁽³⁾ - Fabienne Pelletier⁽³⁾ - Pascal Schneider⁽⁵⁾ - Olivier Casez⁽⁶⁾ - Romain Marignier⁽⁷⁾ - Patrice Marche⁽²⁾ - Michael Hahne⁽⁸⁾ - Dominique Baeten⁽⁹⁾ - Hans Lassmann⁽¹⁰⁾ - Jose Boucraut⁽³⁾ - Bertrand Huard⁽²⁾

Neurology, University Hospital, Geneva, Switzerland⁽¹⁾ - Institute For Advanced Biosciences, University Grenoble Alpes/INSERM, La Tronche, France⁽²⁾ - Université Méditerranée, Faculty Of Medicine, Marseille, France⁽³⁾ - DACP, University Hospital, Grenoble, France⁽⁴⁾ - Biochemistry, University, Lausanne, Switzerland⁽⁵⁾ - Neurology, University Hospital, Grenoble, France⁽⁶⁾ - Neurosciences Research Centre, Faculty Of Medicine, Lyon, France⁽⁷⁾ - Molecular Genetics, CNRS, Montpellier, France⁽⁸⁾ - Academic Medical Center, University, Amsterdam, the Netherlands⁽⁹⁾ - Brain Research, University, Vienna, Austria⁽¹⁰⁾

168 - Dysregulation of B lymphocytes in Myalgic encephalomyelitis/Chronic Fatigue Syndrome

Wakiro Sato⁽¹⁾ - Hirohiko Ono⁽¹⁾ - Masakazu Nakamura⁽¹⁾ - Takashi Yamamura⁽¹⁾

Department of Immunology, National Institute of Neuroscience, National Center of Neurology and Psychiatry (NCNP)⁽¹⁾



169 - Fingolimod therapy promotes a B cell-mediated anti-inflammatory cytokine profile in B and T cells and reduces CXCR4-mediated B cell migration in patients with Multiple Sclerosis

Shiri Blumenfeld ⁽¹⁾ - Elsebeth Staun-ram ⁽¹⁾ - Ariel Miller ⁽²⁾

Rappaport Faculty Of Medicine, Technion- Israel Institute Of Technology, Haifa, Israel ⁽¹⁾ - Neuroimmunology Unit & Multiple Sclerosis Center, Carmel Medical Center, Haifa, Israel ⁽²⁾

172 - Long-lived plasma cells can persist in the central nervous system during chronic neuroinflammation

Karolin Pollok ⁽¹⁾ - Ronja Mothes ⁽²⁾ - Friedemann Paul ⁽³⁾ - Alina Liebheit ⁽⁴⁾ - Carolin Ulbricht ⁽⁴⁾ - Anja Hauser ⁽⁵⁾ - Helena Radbruch ⁽²⁾

Deutsches Rheumaforschungszentrum, Ag Immune Dynamics, Berlin, Germany ⁽¹⁾ - Charité - Universitätsmedizin Berlin, Department Of Neuropathology, Berlin, Germany ⁽²⁾ - Charité - Universitätsmedizin Berlin, Neuro Cure, Berlin, Germany ⁽³⁾ - Deutsches Rheumaforschungszentrum Berlin, Ag Immune Dynamics, Berlin, Germany ⁽⁴⁾ - Charité - Universitätsmedizin Berlin, Division Of Rheumatology And Clinical Immunology, Berlin, Germany ⁽⁵⁾

185 - Dimethyl Fumarate therapy modulates B cells phenotype and functional markers, increasing IL10+ B regulatory cell subsets in patients with Multiple Sclerosis

Elsebeth Staun-Ram ⁽¹⁾ - Eiman Najjar ⁽¹⁾ - Ariel Miller ^(1,2)

Technion-Israel Institute Of Technology, Rappaport Faculty Of Medicine/Neuroimmunology, Haifa, Israel ⁽¹⁾ - Neuroimmunology Unit & Multiple Sclerosis Center, Carmel Medical Center, Haifa, Israel ⁽²⁾

249 - Peripheral VH4+ plasmablasts are expanded and demonstrate autoreactivity towards brain antigens in early Multiple Sclerosis patients

Nancy Monson ⁽¹⁾ - Jacqueline Rivas ⁽²⁾ - Sara Ireland ⁽²⁾ - Rati Chkheidze ⁽³⁾ - Denise Ramirez ⁽²⁾ - Benjamin Greenberg ⁽²⁾ - Lindsay Cowell ⁽⁴⁾ - Ann Stowe ⁽²⁾

Ut Southwestern Medical Center, Neurology And Neurotherapeutics, Dallas, United States ⁽¹⁾ - Ut Southwestern Medical Center, Neurology And Neurotherapeutics, Dallas, United States ⁽²⁾ - Ut Southwestern Medical Center, Pathology, Dallas, United States ⁽³⁾ - Ut Southwestern Medical Center, Clinical Sciences, Dallas, United States ⁽⁴⁾

267 - Characterization of local B-cell populations in paired blood and brain compartments in end-stage multiple sclerosis

Malou Janssen ⁽¹⁾ - Gijsbert P. Van Nierop ⁽²⁾ - Georges M. G. M. Verjans ⁽³⁾ - Marvin M. Van Luijn ⁽⁴⁾ - Rogier Q. Hintzen ⁽¹⁾

Erasmus MC, Departments Of Immunology And Neurology, MS Center ErasMS, Rotterdam, - ⁽¹⁾ - Erasmus MC, Departments Of Neurology And Viroscience, MS Center ErasMS, Rotterdam, Netherlands ⁽²⁾ - Erasmus MC, Department Of Viroscience, Rotterdam, Netherlands ⁽³⁾ - Erasmus MC, Department Of Immunology, MS Center ErasMS, Rotterdam, Netherlands ⁽⁴⁾

324 - Targeting plasma cells with proteasome inhibitors for treatment of myasthenia gravis

Marina Damas ⁽¹⁾ - Abi Saxena ⁽¹⁾ - Gisela Nogales ⁽²⁾ - Maarten Beek ⁽¹⁾ - Nienke Van Den Hoogen ⁽¹⁾ - Peter Molenaar ⁽¹⁾ - Bert Joosten ⁽¹⁾ - Nick Willcox ⁽³⁾ - Pilar Martinez-martinez ⁽¹⁾ - Mario Losen ⁽¹⁾

Maastricht University, Psychiatry And Neuropsychology, Maastricht University, Maastricht, The Netherlands, Maastricht, Netherlands ⁽¹⁾ - Germans Trias I Pujol Research Institute And Campus Can Ruti, Au, Translational Research Laboratory In Neuromuscular Diseases, Neurosciences Department, Badalona, Spain ⁽²⁾ - Nuffield Department Of Clinical Neurosciences, Weatherall Institute For Molecular Medicine, University Of Oxford, Oxford, United Kingdom ⁽³⁾



336 - Distinct oligoclonal band antibodies in multiple sclerosis recognize ubiquitous self-proteins

Simone M. Brändle⁽¹⁾ - Birgit Obermeier⁽¹⁾ - Makbule Senel⁽²⁾ - Jessica Bruder⁽¹⁾ - Reinhard Mentele⁽¹⁾ - Mohsen Khademi⁽³⁾ - Tomas Olsson⁽³⁾ - Hayrettin Tumani⁽²⁾ - Wolfgang Kristoferitsch⁽⁴⁾ - Friedrich Lottspeich⁽⁵⁾ - Hartmut Wekerle⁽⁶⁾ - Reinhard Hohlfeld⁽¹⁾ - Klaus Dornmair⁽¹⁾

Institute Of Clinical Neuroimmunology, Ludwig-Maximilians-University, Munich, Germany⁽¹⁾ - Department Of Neurology, University Of Ulm, Ulm, Germany⁽²⁾ - Neuroimmunology Unit, Department Of Clinical Neuroscience, Center For Molecular Medicine, Karolinska University Hospital, Stockholm, Sweden⁽³⁾ - Karl Landsteiner Institute For Neuroimmunological And Neurodegenerative Disorders, Sozialmedizinisches Zentrum Donauespital, Vienna, Austria⁽⁴⁾ - Department Of Protein Analytics, Max-Planck Institute Of Biochemistry, Martinsried, Germany⁽⁵⁾ - Department Of Neuroimmunology, Max-Planck Institute Of Neurobiology, Martinsried, Germany⁽⁶⁾

PERSONALIZED NEUROIMMUNOLOGY / GENETIC AND IMMUNE BIOMARKERS TO INDIVIDUALIZE DIAGNOSIS AND TREATMENT IN NEUROIMMUNOLOGY

16.00 – 17.00 POSTER HALL: AGAM FOYER

38 - Establishing the role of miR-150 in Multiple Sclerosis and experimental autoimmune encephalomyelitis

Eliane Piket⁽¹⁾ - Lara Kular⁽¹⁾ - William Nyberg⁽²⁾ - Alexander Espinosa⁽²⁾ - Fredrik Piehl⁽¹⁾ - Maja Jagodic⁽¹⁾

Karolinska Institute, Dept. Of Clinical Neuroscience, Karolinska University Hospital, Stockholm, Sweden⁽¹⁾ - Karolinska Institute, Dept. Of Medicine, Karolinska University Hospital, Stockholm, Sweden⁽²⁾

62 - Molecular profiling of damage and repair in the CSF by translating transcriptome data to CSF proteome

Nellie Anne Martin⁽¹⁾ - Arkadiusz Nawrocki⁽¹⁾ - Martin Røssel Larsen⁽²⁾ - Viktor Molnar⁽³⁾ - Peter Acs⁽⁴⁾ - Miklos Palkovits⁽⁵⁾ - Finn Sellebjerg⁽⁶⁾ - Zoltan Hegedus⁽⁷⁾ - Nicolas Alcaraz⁽⁸⁾ - Eudes Barbosa⁽⁸⁾ - Jan Baumbach⁽⁸⁾ - Zsolt Illes⁽¹⁾

Department Of Neurology, Odense University Hospital And Institute Of Clinical Research, Odense, Denmark⁽¹⁾ - Department Of Biochemistry And Molecular Biology, University Of Southern Denmark, Odense, Denmark⁽²⁾ - Department Of Genetics, Cell- And Immunobiology, Semmelweis University, Budapest, Hungary⁽³⁾ - Department Of Neurology, University Of Pecs, Pecs, Hungary⁽⁴⁾ - Department Of Anatomy, Histology And Embryology, Semmelweis University, Budapest, Hungary⁽⁵⁾ - Department Of Neurology, Rigshospitalet And University Of Copenhagen, Copenhagen, Denmark⁽⁶⁾ - Laboratory Of Bioinformatics, Biological Research Centre, Szeged, Hungary⁽⁷⁾ - Department Of Mathematics And Computer Science, University Of Southern Denmark, Odense, Denmark⁽⁸⁾

64 - Genotype is predicting Multiple Sclerosis pathology in the cohort of the Netherlands Brain Bank

Nina Louise Fransen⁽¹⁾ - Matthew Mason⁽²⁾ - Bart Crusius⁽³⁾ - Corbert Van Eden⁽¹⁾ - Mark Mizee⁽¹⁾ - Sabina Luchetti⁽¹⁾ - Inge Huitinga⁽¹⁾

Netherlands Institute Of Neuroscience, Neuroimmunology, Amsterdam, Netherlands⁽¹⁾ - Netherlands Institute Of Neuroscience, Neuroregeneration, Amsterdam, Netherlands⁽²⁾ - Vu University Medical Centre, Immunogenetics, Amsterdam, Netherlands⁽³⁾

93 - Differential Antibody Responses to Gliadin-derived Indigestible Peptides in Schizophrenia

Ryan Mclean⁽¹⁾ - Philip Wilson⁽²⁾ - David St Clair⁽³⁾ - Colette Mustard⁽¹⁾ - Jun Wei⁽¹⁾

University Of The Highlands And Islands, Department Of Health Research, Inverness, United Kingdom⁽¹⁾ - University Of Aberdeen, Centre For Rural Health, Inverness, United Kingdom⁽²⁾ - University Of Aberdeen, Department Of Dentistry And Medicine, Aberdeen, United Kingdom⁽³⁾



95 - Circulating microRNAs as Biomarkers for rituximab therapy, in Neuromyelitis Optica (NMO)

Adi Vaknin Dembinsky⁽¹⁾ - Chana Sharvit⁽¹⁾ - Livnat Brill⁽¹⁾ - Oded Abramsky⁽¹⁾ - Devorah Wahnon⁽²⁾ - Iddo Ben Dov⁽²⁾ - Iris Lavon⁽¹⁾

Hadassah Medical Center, Neurology, Jerusalem, Israel⁽¹⁾ - Nephrology And Hypertension Services, Nephrology And Hypertension Services, Jerusalem, Israel⁽²⁾

121 - MMP9 index as possible diagnostic marker of Neuro-Behçet's disease

Alessandra Aldinucci⁽¹⁾ - Elena Bonechi⁽¹⁾ - Alessandro Barilaro⁽²⁾ - Anna Maria Repice⁽²⁾ - Tiziana Biagioli⁽³⁾ - Giacomo Emmi⁽⁴⁾ - Mario Milco D'elios⁽⁴⁾ - Clara Ballerini⁽¹⁾

University Of Florence, Department Of Neurofarba, Florence, Italy⁽¹⁾ - Careggi University Hospital, Division Neurology 2, Florence, Italy⁽²⁾ - Careggi University Hospital, Laboratory Department, Florence, Italy⁽³⁾ - University Of Florence, Department Of Experimental And Clinical Medicine, Florence, Italy⁽⁴⁾

123 - Searching for Dysregulation in Multiple Sclerosis

Sundararajan Srinivasan⁽¹⁾ - Ramesh Menon⁽²⁾ - Marco Di Dario⁽²⁾ - Alessandra Russo⁽²⁾ - Severa Martina⁽³⁾ - Fabiana Rizzo⁽³⁾ - Lucia Moiola⁽⁴⁾ - Mariaemma Rodegher⁽⁴⁾ - Rosella Mechelli⁽⁵⁾ - Marzia Romeo⁽⁴⁾ - Marta Radaelli⁽⁴⁾ - Francesca Sangalli⁽⁴⁾ - Paul Hertzog⁽⁶⁾ - Marco Salvetti⁽⁵⁾ - Eliana Coccia⁽³⁾ - Vittorio Martinelli⁽⁴⁾ - Giancarlo Comi⁽²⁾ - Cinthia Farina⁽²⁾

Institute Of Experimental Neurology (inspe), Division Of Neuroscience, San Raffaele Scientific Institute, university Vita-salute San Raffaele, Milan, Italy⁽¹⁾ - Institute Of Experimental Neurology (inspe), Division Of Neuroscience, San Raffaele Scientific Institute, Milan, Italy⁽²⁾ - Istituto Superiore Sanità (iss), Istituto Superiore Sanità (iss), Rome, Italy⁽³⁾ - Division Of Neuroscience, San Raffaele Scientific Institute, Milan, Italy⁽⁴⁾ - Centre For Experimental Neurological Therapies, S. Andrea Hospital-site, Department Of Neuroscience, Mental Health And Sensory Organs (nesmos), Sapienza University Of Rome, Rome, -⁽⁵⁾ - Centre For Innate Immunity And Infectious Diseases, Mimir-phi Institute Of Medical Research, Clayton, Victori, Australia⁽⁶⁾

130 - Clinical characterization of patients with CNS demyelination among the Muslims Arabs population in Israel

Livnat Brill⁽¹⁾ - Oded Abramsky⁽¹⁾ - Tamir Ben Hur⁽¹⁾ - Arnon Karni⁽²⁾ - Shoshana Israel⁽³⁾ - Adi Vaknin Dembinsky⁽¹⁾
Hadassah Medical Center, Neurology, Jerusalem, Israel⁽¹⁾ - Sourasky Medical Center, Neurology, Tel Aviv, Israel⁽²⁾ - Hadassah Medical Center, Tissue Typing Laboratory, Jerusalem, Israel⁽³⁾

142 - MicroRNA expression levels and variants of microRNA genes as biomarkers of multiple sclerosis clinical course

Olga Kulakova⁽¹⁾ - Natalia Baulina⁽¹⁾ - Ivan Kiselev⁽¹⁾ - Vitalina Bashinskaya⁽¹⁾ - Ekaterina Popova⁽²⁾ - Alexey Boyko⁽²⁾ - Olga Favorova⁽¹⁾

N.I. Pirogov Russian National Research Medical University, Dep. of Molecular Biology and Medical Biotechnology, Moscow, Russian Federation⁽¹⁾ - N.I. Pirogov Russian National Research Medical University, Dep. of Neurology, Neurosurgery, and Medical Genetics, Moscow, Russian Federation⁽²⁾



220 - Differential genome-wide DNA methylation patterns in peripheral blood mononuclear cells of relapsing-remitting and primary-progressive multiple sclerosis patients

Olga Kulakova⁽¹⁾ - Marsel Kabilov⁽²⁾ - Ludmila Danilova⁽³⁾ - Ekaterina Popova⁽⁴⁾ - Olga Baturina⁽²⁾ - Ekaterina Tsareva⁽¹⁾ - Natalia Baulina⁽¹⁾ - Ivan Kiselev⁽¹⁾ - Alexey Boyko⁽⁴⁾ - Valentin Vlassov⁽⁵⁾ - Alexander Favorov⁽⁶⁾ - Olga Favorova⁽¹⁾
 N.I. Pirogov Russian National Research Medical University, Department of Molecular Biology and Medical Biotechnology, Moscow, Russian Federation⁽¹⁾ - Institute of Chemical Biology And Fundamental Medicine, Siberian Branch of The Russian Academy of Sciences, SB RAS Genomics Core Facility, Novosibirsk, Russian Federation⁽²⁾ - Johns Hopkins School of Medicine, Department of Oncology, Division of Biostatistics and Bioinformatics, Baltimore, MD, United States⁽³⁾ - N.I. Pirogov Russian National Research Medical University, Department of Neurology, Neurosurgery, and Clinical Genetics, Moscow, Russian Federation⁽⁴⁾ - Institute of Chemical Biology and Fundamental Medicine, Siberian Branch of The Russian Academy of Sciences, Center of New Medical Technology, Novosibirsk, Russian Federation⁽⁵⁾ - Vavilov Institute of General Genetics, Laboratory of Systems Biology and Computational Genetics, Moscow, Russian Federation⁽⁶⁾

181 - Comparative analysis of peripheral blood lymphocytic cell death on multiple sclerosis patients receiving interferon and glatiramer acetate – preliminary results

Marina Boziki⁽¹⁾ - Roza Lagoudaki⁽¹⁾ - Theano Tatsi⁽¹⁾ - Dimitrios Karacostas⁽¹⁾ - Nikolaos Grigoriadis⁽¹⁾
 2nd Neurological Department, AHEPA University General Hospital, Aristotle University Of Thessaloniki, Thessaloniki, Greece⁽¹⁾

196 - Profiling the autoantibody repertoire in saliva of young athletes to identify early protein markers of traumatic brain injury (TBI)

Elisa Pin⁽¹⁾ - Eni Andersson⁽¹⁾ - Kelsey Mitchell⁽²⁾ - Nelson Cortes⁽²⁾ - Shane V. Caswell⁽²⁾ - Mariaelena Pierobon⁽²⁾ - Emanuel F. Petricoin⁽²⁾ - Peter Nilsson⁽¹⁾
 Scilifelab-kth, School Of Biotechnology, Stockholm, Sweden⁽¹⁾ - George Mason University, Center For Applied Proteomics And Molecular Medicine, Manassas, Virginia, United States⁽²⁾

224 - Anoctamin 2 identified as an autoimmune target in multiple sclerosis

Peter Nilsson⁽¹⁾ - Burcu Ayoglu⁽¹⁾ - Katarina Tengvall⁽²⁾ - Ingrid Kockum⁽²⁾ - Tim Waterboer⁽³⁾ - Tomas Olsson⁽²⁾
 Scilifelab, School Of Biotechnology, Kth - Royal Institute Of Technology, Stockholm, Sweden⁽¹⁾ - Karolinska Institutet, Neuroimmunology Unit, Dept Clinical Neuroscience, Stockholm, Sweden⁽²⁾ - German Cancer Research Center, German Cancer Research Center, Heidelberg, Germany⁽³⁾

232 - In-depth Immunophenotyping of Newly Diagnosed Relapsing Remitting Multiple Sclerosis Patients and Patients treated with Dimethyl Fumarate

Maryam Nakhaei-nejad⁽¹⁾ - David Barilla⁽¹⁾ - Gregg Blevins⁽¹⁾ - Aaron Hirschfeld⁽²⁾ - Fabrizio Giuliani⁽¹⁾
 University Of Alberta, Medicine, Edmonton, Canada⁽¹⁾ - Bd Biosciences, Mississauga, Canada⁽²⁾

236 - Serum exosomes profiling reveals a novel biomarkers of multiple sclerosis

Igor Selmaj⁽¹⁾ - Magdalena Namiecinska⁽¹⁾ - Maria Cichalewska⁽¹⁾ - Grazyna Galazka⁽¹⁾ - Krzysztof W. Selmaj⁽¹⁾ - Marcin P. Mycko⁽¹⁾
 Medical University Of Lodz, Department Of Neurology, Laboratory Of Neuroimmunology, Lodz, Poland⁽¹⁾

288 - An optimized protocol of differential centrifugation isolates quantitatively and qualitatively distinct microvesicle populations

Annamaria Nigro⁽¹⁾ - Alessandro Romano⁽¹⁾ - Annamaria Finardi⁽¹⁾ - Marzia M. Ferraro⁽²⁾ - Antonio Gaballo⁽²⁾ - Daniela E. Manno⁽³⁾ - Angelo Quattrini⁽¹⁾ - Roberto Furlan⁽¹⁾
 San Raffaele Scientific Institute, Division Of Neuroscience, Institute Of Experimental Neurology, Milano, Italy⁽¹⁾ - Nanotechnology Institute, Cnr Nanotec, Lecce, Italy⁽²⁾ - Department Of Materials Science, University Of Salento, Lecce, Italy⁽³⁾



291 - MS patients show different CSF leukocyte profile than other inflammatory and non-inflammatory neurological diseases, with characteristic intracellular cytokine production

Carmen Picon ⁽¹⁾ - Lucienne Frossard ⁽²⁾ - Susana Sainz De La Maza ⁽²⁾ - Eulalia Rodriguez-martin ⁽¹⁾ - Silvia Medina ⁽¹⁾ - Mercedes Espiño ⁽¹⁾ - Inmaculada Toboso ⁽¹⁾ - Jose Carlos Alvarez-cermeño ⁽²⁾ - Luisa Maria Villar ⁽¹⁾
 Hospital Univeristario Ramón Y Cajal, Immunology Department, Madrid, Spain ⁽¹⁾ - Hospital Univeristario Ramón Y Cajal, Neurology Department, Madrid, Spain ⁽²⁾

347 - Differential binding of commercial secondary antibodies to human IgG-allotypes

Anita Krysta ⁽¹⁾ - Sudhakar Reddy Kalluri ⁽¹⁾ - Zsuzsanna Hracsko ⁽¹⁾ - Carina Nowak ⁽¹⁾ - Christiane Gasperi ⁽¹⁾ - Dorothea Buck ⁽¹⁾ - Bernhard Hemmer ⁽¹⁾
 Department Of Neurology, Klinikum Rechts Der Isar, Technische Universität München, Munich, Germany ⁽¹⁾

349 - A comprehensive evaluation of serum microRNAs as biomarkers in Multiple Sclerosis

Keren Regev ⁽¹⁾ - Anu Paul ⁽¹⁾ - Brian Healy ⁽²⁾ - Felipe Von Glenn ⁽¹⁾ - Camilo Diaz-cruz ⁽²⁾ - Taha Gholipour ⁽²⁾ - Maria Antonietta Mazzola ⁽¹⁾ - Radhika Raheja ⁽¹⁾ - Parham Nejad ⁽¹⁾ - Bonnie I Glanz ⁽²⁾ - Pia Kivisakk ⁽¹⁾ - Tanuja Chitnis ⁽²⁾ - Howard L. Weiner ⁽¹⁾ - Roopali Gandhi ⁽¹⁾ - R R ⁽¹⁾
 Ann Romney Center Of Neurologic Diseases, Brigham And Women's Hospital, Harvard Medical School, Boston, Ma, United States ⁽¹⁾ - Partners Ms Center, Brigham And Women's Hospital, Harvard Medical School, Boston, Ma, United States ⁽²⁾

375 - Gene polymorphisms as modifiers of response to interferon beta 1b in Serbian Multiple Sclerosis population (candidate gene study)

Maja Živković ⁽¹⁾ - Aleksandar Pantovic ⁽²⁾ - Ana Kolaković ⁽¹⁾ - Ljiljana Stojković ⁽¹⁾ - Evica Dinčić ⁽²⁾ - Ranko Raicevic ⁽²⁾ - Smiljana Kostić ⁽²⁾ - Dragan Alavantić ⁽¹⁾ - Aleksandra Stanković ⁽¹⁾
 "Vinča" Institute of Nuclear Sciences, Laboratory for Radiobiology and Molecular Genetics, University of Belgrade, Belgrade, Serbia ⁽¹⁾ - Military Medical Academy, Neurology clinic, Belgrade, Serbia ⁽²⁾

376 - Angiotensin-converting enzyme and angiotensin receptors gene polymorphisms as risk factors for multiple sclerosis

Maja Živković ⁽¹⁾ - Aleksandar Pantovic ⁽²⁾ - Ana Kolaković ⁽¹⁾ - Ljiljana Stojković ⁽¹⁾ - Evica Dinčić ⁽²⁾ - Smiljana Kostić ⁽²⁾ - Dragan Alavantić ⁽¹⁾ - Aleksandra Stanković ⁽¹⁾
 "Vinča" Institute of Nuclear Sciences, Laboratory for Radiobiology and Molecular Genetics, University of Belgrade, Belgrade, Serbia ⁽¹⁾ - Military Medical Academy, Neurology clinic, Belgrade, Serbia ⁽²⁾

380 - Treatment response of multiple sclerosis patients under second – line disease modifying treatment: a single center long term retrospective study

Marina Boziki ⁽¹⁾ – Stylianos Kallivoulos ⁽¹⁾ – Christos Bakirtzis ⁽¹⁾ – Ioannis Nikolaidis ⁽¹⁾ – Eleni Polychroniadou ⁽¹⁾ – Dimitrios Karacostas ⁽¹⁾ – Nikolaos Grigoriadis ⁽¹⁾
 B' Neurological Department, Aristotle University of Thessaloniki, AHEPA General Hospital, Thessaloniki, Greece ⁽¹⁾



NOVEL IMAGING OF VISUAL AND OTHER PATHWAYS AS MODELS FOR RESEARCH AND BIOMARKERS OF NEUROINFLAMMATION AND NEUROREGENERATION
16.00 – 17.00 POSTER HALL: AGAM FOYER

11 - In Vivo-Morphology of the Optic Nerve and Retina in Patients with Parkinson's disease

Irene Gottlob ⁽¹⁾ - Anastasia Pilat ⁽¹⁾ - Rebecca J Mclean ⁽¹⁾ - Frank A Proudlock ⁽¹⁾ - Gail De Maconachie ⁽¹⁾ - Viral Sheth ⁽¹⁾ - Yusuf A Rajabally ⁽²⁾

University Of Leicester, Ulverscroft Eye Unit, Leicester, United Kingdom ⁽¹⁾ - School Of Life And Health Sciences, Aston Brain Centre, Aston University, Queen Elizabeth Hospital, University Hospitals Of Birmingham, Birmingham, United Kingdom ⁽²⁾

53 - The role of multifocal visual evoked potentials in understanding disability in multiple sclerosis

Elena H Martinez-Lapiscina ⁽¹⁾ - Ana Isabel Tercero-Uribe ⁽¹⁾ - Salut Alba-Arbalat ⁽¹⁾ - Nuria Sola-Vals ⁽¹⁾ - Magi Andorra ⁽¹⁾ - Maria Sepulveda ⁽¹⁾ - Ana Maria Guerrero-Zamora ⁽¹⁾ - Ruben Torres-Torres ⁽²⁾ - Sara Llufrui ⁽¹⁾ - Irati Zubizarreta ⁽¹⁾ - Yolanda Blanco ⁽¹⁾ - Bernardo Sanchez-Dalmau ⁽²⁾ - Albert Saiz ⁽¹⁾ - Joan Santamaria ⁽¹⁾ - Pablo Villoslada ⁽¹⁾

Hospital Clinic Of Barcelona - Idibaps, Neurology, Barcelona, Spain ⁽¹⁾ - Hospital Clinic Of Barcelona - Idibaps, Ophthalmology, Barcelona, Spain ⁽²⁾

264 - Retina atrophy is more prominent in the early phases of multiple sclerosis and is associated with clinical disease activity: a cohort study

Elena H Martinez-Lapiscina ⁽¹⁾ - Hao Yiu ⁽²⁾ - Magi Andorra ⁽¹⁾ - Sam Arnow ⁽²⁾ - Andrés Cruz-Herranz ⁽²⁾ - Christian Cordano ⁽²⁾ - Albert Saiz ⁽¹⁾ - Pablo Villoslada ⁽¹⁾ - Ari J Green ⁽²⁾

Hospital Clinic Of Barcelona - Idibaps, Neurology, Barcelona, Spain ⁽¹⁾ - University Of California, San Francisco (ucsf), Multiple Sclerosis Center, San Francisco, United States ⁽²⁾

118 - Uptake of 18F-FET and 18F-FCH in human glioblastoma T98G cell lines after irradiation with photons or carbon ions

Francesca Pasi ⁽¹⁾ - Federica Eleonora Buroni ⁽²⁾ - Marco Giovanni Persico ⁽²⁾ - Jessica Sani ⁽³⁾ - Lorenzo Lodola ⁽²⁾ - Angelica Facoetti ⁽⁴⁾ - Franco Corbella ⁽¹⁾ - Carlo Aprile ⁽²⁾ - Rosanna Nano ⁽³⁾

Fondazione Irccs Policlinico San Matteo, Department Of Oncohaematology, Radiotherapy Unit, Pavia, Italy ⁽¹⁾ - Fondazione Irccs Policlinico San Matteo, Department Of Oncohaematology, Nuclear Medicine Unit, Pavia, Italy ⁽²⁾ - University Of Pavia, Department Of Biology And Biotechnology "Lazzaro Spallanzani", Pavia, Italy ⁽³⁾ - Cnao Foundation, Radiobiology Unit, Pavia, Italy ⁽⁴⁾

189 - Intravital imaging of calcium activities in the encephalitogenic T cells during their journey to CNS

Nikolaos I. Kyratsous ⁽¹⁾ - Guokun Zhang ⁽¹⁾ - Marija Pestic ⁽¹⁾ - Ingo Bartholomäus ⁽²⁾ - Marsilius Mues ⁽²⁾ - Ping Fang ⁽¹⁾ - Miriam Wörner ⁽¹⁾ - Stephanie Everts ⁽¹⁾ - Joachim W. Ellwart ⁽³⁾ - Hartmut Wekerle ⁽²⁾ - Naoto Kawakami ⁽¹⁾

Institute Of Clinical Neuroimmunology, Biomedical Center, Lmu Munich, Martinsried, Germany ⁽¹⁾ - Max Planck Institute Of Neurobiology, Neuroimmunology, Martinsried, Germany ⁽²⁾ - Institute For Experimental Hematology, Helmholtz Centre, Munich, Germany ⁽³⁾

268 - Investigating mediators of neutrophil recruitment to the brain after cerebral ischemia with near-infrared fluorescence imaging

Markus Vaas ⁽¹⁾ - Gaby Enzmann ⁽²⁾ - Anja Kipar ⁽³⁾ - Ulrich Siler ⁽⁴⁾ - Kai Licha ⁽⁵⁾ - Markus Rudin ⁽¹⁾ - Britta Engelhardt ⁽²⁾ - Jan Klohs ⁽¹⁾

University And ETH Zurich, Institute For Biomedical Engineering, Zurich, Switzerland ⁽¹⁾ - University Of Bern, Theodor Kocher Institute, Bern, Switzerland ⁽²⁾ - Laboratory For Animal Model Pathology, Institute Of Veterinary Pathology, Vetsuisse Faculty, University Of Zurich, 8057 Zürich, Switzerland ⁽³⁾ - University Children's Hospital Zurich And Children's Research Centre, Division Of Immunology, Zurich, Switzerland ⁽⁴⁾ - Freie Universität Berlin, Institute Of Chemistry And Biochemistry, Berlin, Germany ⁽⁵⁾



306 - Population receptive field mapping in the visual cortex following peripheral optic neuritis

Peter De Best⁽¹⁾ - Noa Raz⁽¹⁾ - Netta Levin⁽¹⁾

Neurology Department, Hadassah Hebrew University Medical Center, Jerusalem, Israel⁽¹⁾

337 - Retinal axonal loss in relapsing multiple sclerosis is associated with disability and brain tissue damage but not with markers of inflammation

Letizia Leocani⁽¹⁾ - Marco Pisa⁽¹⁾ - Tommaso Croese⁽¹⁾ - Simone Guerrieri⁽¹⁾ - Giovanni Di Maggio⁽¹⁾ - Stefania Medaglini⁽¹⁾ - Lucia Moiola⁽¹⁾ - Ubaldo Del Carro⁽¹⁾ - Vittorio Martinelli⁽¹⁾ - Roberto Furlan⁽¹⁾ - Giancarlo Comi⁽¹⁾
Hospital San Raffaele, Department Of Neurology, Milan, Italy⁽¹⁾

REPAIR/REGENERATION, STEM CELLS AND NEUROIMMUNOMODULATION

16.00 – 17.00 POSTER HALL: AGAM FOYER

15 - Sera of relapsing-remitting multiple sclerosis patients express high levels of bone morphogenetic protein-2 that correlate with BMP-4 and BMP-5 levels, and induce low neuronal phenotype in P19 cells

Moran Penn⁽¹⁾ - Karin Mausner-Fainberg⁽²⁾ - Maya Golan⁽²⁾ - Arnon Karni⁽¹⁾

Neuroimmunology Laboratory, Department Of Neurology, Tel Aviv Sourasky Medical Center, Sackler's Faculty Of Medicine, Tel Aviv University, Tel Aviv, Israel⁽¹⁾ - Neuroimmunology Laboratory, Department Of Neurology, Tel Aviv Sourasky Medical Center, Tel Aviv, Israel⁽²⁾

17 - Human embryonic stem cell -derived oligodendrocyte progenitor cells provide long term immune-regulation and protection in a chronic-relapsing model of multiple sclerosis

Yossi Nishri⁽¹⁾ - David Hampton⁽²⁾ - Etti Ben-Shushan⁽³⁾ - Benjamin E Reubinoff⁽³⁾ - Siddharthan Chandran⁽²⁾ - Tamir Ben-Hur⁽¹⁾

Hadassah Hebrew University Medical Center, Dept. Of Neurology, Jerusalem, Israel⁽¹⁾ - University of Edinburgh, Division of Clinical Neurosciences, Edinburgh, United Kingdom⁽²⁾ - Hadassah Hebrew University Medical Center, Human Embryonic Research Center, Jerusalem, Israel⁽³⁾

20 - Investigating the role of astrocytes' anti-excitotoxicity potential for neuronal damage formation in experimental autoimmune encephalomyelitis – an in vivo two-photon imaging approach

Kamil S. Rosiewicz⁽¹⁾ - Tadhg Crowley⁽¹⁾ - Marlen Alisch⁽¹⁾ - Anca Margineanu⁽²⁾ - Volker Siffrin⁽¹⁾

Charité - Universitätsmedizin Berlin, Experimental And Clinical Research Center (ecrc) / Neuroimmunology Lab, Berlin, Germany⁽¹⁾ - Max Delbrück Center For Molecular Medicine, Advanced Light Microscopy, Berlin, Germany⁽²⁾



30 - Effect of fingolimod on neural stem cells: A novel mechanism and broadened application for neural repair

Yuan Zhang ⁽¹⁾ - Xing Li ⁽¹⁾ - Bogoljub Ciric ⁽¹⁾ - Cun-gen Ma ⁽²⁾ - Bruno Bran ⁽³⁾ - Abdolmohamad Rostami ⁽¹⁾ - Guang-xian Zhang ⁽¹⁾

Thomas Jefferson University, Thomas Jefferson University Hospital, Philadelphia, United States ⁽¹⁾ - Shanxi Datong University, Medical School, Datong, China ⁽²⁾ - University Of Nottingham, School Of Medicine, Nottingham, United Kingdom ⁽³⁾

40 - Quantifying remyelination in vivo - metabolic labeling of myelin in an animal model of multiple sclerosis

Rina Aharoni ⁽¹⁾ - Chava Rozen ⁽¹⁾ - Elias Shezen ⁽¹⁾ - Dekel D. Bar Lev ⁽¹⁾ - Michael Sela ⁽¹⁾ - Ruth Arnon ⁽¹⁾
The Weizmann Institute Of Science, University, Rehovot, Israel ⁽¹⁾

68 - Prickle1 as positive regulator of oligodendrocyte differentiation

Rina Ilona Zilkha-falb ⁽¹⁾ - Michael Gurevich ⁽¹⁾ - Erez Hanael ⁽¹⁾ - Anat Achiron ⁽¹⁾
Sheba Medical Center, Center Of Multiple Sclerosis, Ramat-gan, Israel ⁽¹⁾

81 - Possible role of microRNAs in the modulation of neuroinflammation by mesenchymal stem cells

Chiara Marini ⁽¹⁾ - Benedetta Parodi ⁽¹⁾ - Nicole Kerlero De Rosbo ⁽¹⁾ - Marco Milanese ⁽²⁾ - Giambattista Bonanno ⁽²⁾ - Antonio Uccelli ⁽¹⁾ - Debora Giunti ⁽¹⁾

Neuroimmunology Unit, Department Of Neurosciences (dinogmi) - University Of Genoa, Genoa, Italy ⁽¹⁾ - Pharmacology And Toxicology Unit, Department Of Pharmacy (difar) - University Of Genoa, Genoa, Italy ⁽²⁾

96 - Reparative macrophages that robustly promote remyelination: unexpected integration of pro-and anti-inflammatory triggers

Manoj Mishra ⁽¹⁾ - Khalil Rawji ⁽¹⁾ - Michael B. Keough ⁽¹⁾ - Yan Fan ⁽¹⁾ - Reza Dowlatabadi ⁽²⁾ - Hans Vogel ⁽²⁾ - V. Wee Yong ⁽¹⁾

Hotchkiss Brain Institute, University Of Calgary, Calgary, Canada ⁽¹⁾ - Department Of Biological Sciences, University Of Calgary, Calgary, Canada ⁽²⁾

128 - iPSC-derived astrocytes are functional and respond to multiple sclerosis-relevant cytokines stimulation

Sylvain Perriot ⁽¹⁾ - Guillaume Perriard ⁽¹⁾ - Amandine Mathias ⁽¹⁾ - Mathieu Canales ⁽¹⁾ - Nicole Déglon ⁽²⁾ - Renaud Du Pasquier ⁽³⁾

Chuv, Laboratory Of Neuroimmunology, Department Of Clinical Neurosciences, Lausanne, Switzerland ⁽¹⁾ - Chuv, Laboratory Of Cellular And Molecular Neurotherapies, Department Of Clinical Neurosciences, Lausanne, Switzerland ⁽²⁾ - Chuv, Laboratory Of Neuroimmunology, Service Of Neurology, Department Of Clinical Neurosciences,, Lausanne, Switzerland ⁽³⁾

151 - Neural stem cells show differential viability and distribution upon intrathecal transplantation in the acute and chronic phases of experimental autoimmune encephalomyelitis

Arianna Merlini ⁽¹⁾ - Donatella De Feo ⁽¹⁾ - Francesca Ruffini ⁽¹⁾ - Giancarlo Comi ⁽²⁾ - Gianvito Martino ⁽¹⁾

San Raffaele Scientific Institute, Neuroimmunology Unit -institute Of Experimental Neurology, Milan, Italy ⁽¹⁾ - San Raffaele Scientific Institute, Neurology Department -institute Of Experimental Neurology, Milan, Italy ⁽²⁾

155 - Neuralized Mesenchymal Stem Cells: A novel cellular Therapy Paradigm for the treatment of Multiple Sclerosis

Ibrahim Kassis ⁽¹⁾ - Moriel Ben-Zwi ⁽¹⁾ - Panayiota Petrou ⁽¹⁾ - Michelle Halime ⁽¹⁾ - Dimitrios Karussis ⁽¹⁾

Department of Neurology and Agnes-Ginges Center for Neurogenetics , Hadassah-Hebrew University Medical Center, Jerusalem, Israel ⁽¹⁾



164 - Isolation of recombinant IgG Fab fragments recognizing neural precursor stem cell antigens using the antibody phage display technique

Ioannis Paspaltsis ⁽¹⁾ - Evangelia Kesidou ⁽²⁾ - Eva Nousiopoulou ⁽²⁾ - Olga Touloumi ⁽²⁾ - Roza Lagoudaki ⁽²⁾ - Theodoros Sklaviadis ⁽¹⁾ - Nikolaos Grigoriadis ⁽²⁾

Aristotle University Of Thessaloniki, Prion Diseases Research Group, School Of Pharmacy, Thessaloniki, Greece ⁽¹⁾ - Aristotle University Of Thessaloniki, Laboratory Of Experimental Neurology And Neuroimmunology, Thessaloniki, Greece ⁽²⁾

171 - MIS416, a myeloid-targeted immune modulator for the treatment of neuro-inflammatory based disorders, enhances functional recovery in a spinal cord injury model

Masoud Hassanpour Golakani ⁽¹⁾ - Manvendra Saxena ⁽¹⁾ - Hui Li ⁽¹⁾ - David Brown ⁽¹⁾ - Gill Webster ⁽²⁾

Laboratory Of Neuroinflammation, St Vincent's Centre For Applied Medical Research, University Of New South Wales, Sydney, Australia ⁽¹⁾ - Innate Immunotherapeutics, Auckland, New Zealand ⁽²⁾

221 - Antigen specific therapy in Multiple Sclerosis and Neuromyelitis optica: a phase 1b clinical trial with tolerogenic dendritic cells

Irati Zubizarreta ⁽¹⁾ - Georgina Florez ⁽²⁾ - Gemma Vila ⁽¹⁾ - Raquel Cabezon ⁽²⁾ - Carolina España ⁽²⁾ - Daniel Benitez-Ribas ⁽²⁾ - Sara Varea ⁽³⁾ - Joan Albert Arnaiz ⁽³⁾ - Albert Saiz ⁽⁴⁾ - Pablo Villoslada ⁽¹⁾

Institut d'investigacions Biomèdiques August Pi i Sunyer (IDIBAPS), Hospital Clinic I Provincial / Universitat De Barcelona / Neurology, Barcelona, Spain ⁽¹⁾ - Centro De Investigación Biomédica En Red De Enfermedades Hepáticas Y Digestivas (ciberehd), Hospital Clínic I Provincial And Centre Esther Koplowitz / Universitat De Barcelona, Barcelona, Spain ⁽²⁾ - Clinical Trials Unit (ctu), Hospital Clinic Provincial / Universitat De Barcelona / Clinical Pharmacology Service, Barcelona, Spain ⁽³⁾ - Center Of Neuroimmunology And Department Of Neurology, Hospital Clinic I Provincial / Universitat De Barcelona / Neurology, Barcelona, Spain ⁽⁴⁾

239 - Lipid metabolism modulates the immunomodulatory properties of Mesenchymal Stem Cells

Laura Lovato ⁽¹⁾ - Natalia Realini ⁽²⁾ - Daniele Piomelli ⁽³⁾ - Antonio Uccelli ⁽⁴⁾ - Francesco De Angelis ⁽¹⁾

Italian Institute Of Technology, Department Of Plasmon Nanotechnologies, Genoa, Italy ⁽¹⁾ - Italian Institute Of Technology, Department Of D3 Validation, Genoa, Italy ⁽²⁾ - University Of California, Department Of Anatomy & Neurobiology, Irvine, United States ⁽³⁾ - University Of Genoa, Department Of Neurosciences, Genoa, Italy ⁽⁴⁾

248 - Oncostatin M signaling is essential for robust remyelination

Kris Janssens ⁽¹⁾ - Evelien Houben ⁽¹⁾ - Anurag Maheshwari ⁽¹⁾ - Chris Van Den Haute ⁽²⁾ - Tom Struys ⁽¹⁾ - Ivo Lambrichts ⁽¹⁾ - Veerle Baekelandt ⁽²⁾ - Piet Stinissen ⁽¹⁾ - Jerome Hendriks ⁽¹⁾ - Helena Slaets ⁽¹⁾ - Niels Hellings ⁽¹⁾

Hasselt University, Biomedical Research Institute, Diepenbeek, Belgium ⁽¹⁾ - Kuleuven, Department Of Neuroscience, Laboratory For Neurobiology And Gene Therapy, Leuven, Belgium ⁽²⁾

253 - Neural precursor cell-secreted factors twist the inflammatory program of CNS- invading monocyte-derived dendritic cells in experimental multiple sclerosis

Donatella De Feo ⁽¹⁾ - Arianna Merlini ⁽¹⁾ - Elena Brambilla ⁽¹⁾ - Linda Ottoboni ⁽¹⁾ - Cecilia Laterza ⁽¹⁾ - Giancarlo Comi ⁽¹⁾ - Cinthia Farina ⁽¹⁾ - Melanie Greter ⁽²⁾ - Gianvito Martino ⁽¹⁾

Institute Of Experimental Neurology, San Raffaele Scientific Institute, Milano, Italy ⁽¹⁾ - Institute Of Experimental Immunology, University Of Zurich, Zurich, Switzerland ⁽²⁾



281 - Phase II double blind trial to investigate the efficacy and the Optimal Way of Administration (based on the clinical, neurophysiological and neuroradiological effects) of Autologous Mesenchymal Bone M

Panayiota Petrou ⁽¹⁾ - Ibrahim Kassis ⁽¹⁾ - Neta Levin ⁽¹⁾ - Michelle Halimi ⁽¹⁾ - Tamir Ben Hur ⁽¹⁾ - Adi Vaknin ⁽¹⁾ – Ariel Ginsberg ⁽¹⁾ - Dimitrios Karussis ⁽¹⁾

Neuroimmunology And Cell Therapy Unit, Department Of Neurology, Hadassah Hebrew University Medical Center, Jerusalem, Israel ⁽¹⁾

292 - Endogenous neural stem cells regulate striatal homeostasis

Erica Butti ⁽¹⁾ - Marco Bacigaluppi ⁽¹⁾ - Elena Brambilla ⁽¹⁾ - Stefano Taverna ⁽¹⁾ - Veronica Bianchi ⁽²⁾ - Patrizia D'adamo ⁽²⁾ - Marco Cambiaghi ⁽³⁾ - Mathias Hoehn ⁽⁴⁾ - Gianvito Martino ⁽¹⁾

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322 - Human iPSC-derived neurons from multiple sclerosis patients as a tool to assess cell specific dis-functions and pharmacological drug effects

Linda Ottoboni ⁽¹⁾ - Cecilia Laterza ⁽²⁾ - Francesca Ruffini ⁽¹⁾ - Mario Barilani ⁽³⁾ - Simona Baronchelli ⁽⁴⁾ - Rosa Bonaccorso ⁽¹⁾ - Ida Biunno ⁽⁴⁾ - Lorenza Lazzari ⁽³⁾ - Stefano Taverna ⁽¹⁾ - Gianvito Martino ⁽¹⁾

Neuroimmunology, San Raffaele Hospital, Milan, Italy ⁽¹⁾ - Lund Stem Cell Center, Lund University, Lund, Sweden ⁽²⁾ - Fondazione Irccs Ca' Granada, Ospedale Maggiore Policlinico, Milan, Italy ⁽³⁾ - Irgb, Cnr, Milan, Italy ⁽⁴⁾

356 - Treatment of Experimental Autoimmune Encephalomyelitis with Mixed Chimerism and Concurrent Neural Stem Cell Transplant

William Orent ⁽¹⁾ - Jose Marino ⁽¹⁾ - Joshua Paster ⁽¹⁾ - Gilles Benichou ⁽¹⁾ - David H. Sachs ⁽¹⁾

Harvard Medical School, Center For Transplantation Sciences - Massachusetts General Hospital, Boston, United States ⁽¹⁾

365 - RGMa regulates T cell responses and neurodegeneration in autoimmune encephalomyelitis

Toshihide Yamashita ⁽¹⁾

Graduate School Of Medicine, Osaka University, Department Of Molecular Neuroscience, Suita-shi, Japan ⁽¹⁾

PEDIATRIC MS

16.00 – 17.00 POSTER HALL: AGAM FOYER

274: Towards an improved classification of relapsing demyelinating syndromes of the central nervous system in children

Yael Hacoen ⁽¹⁾ - Kshitij Mankad ⁽²⁾ - W. Kling Chong ⁽²⁾ - Frederik Barkhof ⁽³⁾ - Ming Lim ⁽⁴⁾ - Evangeline Wassmer ⁽⁵⁾ - Olga Ciccarelli ⁽⁶⁾ - Cheryl Hemingway ⁽¹⁾

Great Ormond Street Hospital For Children, Department Of Paediatric Neurology, London, United Kingdom ⁽¹⁾ - Paediatric Neuroradiology,, Great Ormond Street Hospital For Children Hospital, London, United Kingdom ⁽²⁾ - Institutes Of Neurology And Biomedical Engineering, Ucl, London, United Kingdom ⁽³⁾ - Children's Neurosciences, Evelina Children's Hospital, Guy's And St Thomas' Nhs Foundation Trust, King's Health Partners Academic Health Science C, London, United Kingdom ⁽⁴⁾ - Department Of Paediatric Neurology,, Birmingham Children's Hospital, Birmingham, United Kingdom ⁽⁵⁾ - Department Of Neuroinflammation, Queen Square Ms Centre, Ucl Institute Of Neurology, London, United Kingdom ⁽⁶⁾



364 - Preconditioned MSCs treat myasthenia gravis in a humanized preclinical model

Muriel Sudres ⁽¹⁾ - Marie Maurer ⁽¹⁾ - Marieke Robinet ⁽¹⁾ - Jacky Bismuth ⁽¹⁾ - Frédérique Truffault ⁽¹⁾ - Nadine Dragin ⁽¹⁾ - Elie Fadel ⁽²⁾ - Nicola Santelmo ⁽³⁾ - Camille Sicsic ⁽⁴⁾ - Talma Brenner ⁽⁴⁾ - Sonia Berrih-Aknin ⁽¹⁾
 Center of Research in Myology, Sorbonne Universités, UPMC, INSERM U974, CNRS FRE 3617, Institute of Myology, Paris, France ⁽¹⁾ - Centre Chirurgical Marie Lannelongue, Le Plessis Robinson, France ⁽²⁾ - Hôpital Civil de Strasbourg, Strasbourg, France ⁽³⁾ - Department of Neurology, Hadassah Hebrew University Medical Center, Jerusalem, Israel ⁽⁴⁾

374 - Cognitive impairment in children and adolescents with multiple sclerosis

Shay Menascu ⁽¹⁾ - Royi Aloni ⁽¹⁾ - Anat Achiron ⁽¹⁾
 Multiple Sclerosis Center, Sheba Medical Centre Tel HaShomer, Israel ⁽¹⁾

NOVEL IMAGING AND VISUAL TESTING TECHNIQUES AS BIOMARKERS OF NEUROINFLAMMATION AND NEUROREGENERATION

17.00 – 18.30 ROOM A: USSISHKIN

Chairs: Friedemann Paul and Daniel Reich

17.00 OCT AS AN IMAGING TECHNIQUE FOR NEUROINFLAMMATION AND NEURODEGENERATION

Friedemann Paul, *Charité Universitätsmedizin Berlin (Berlin, Germany)*

17.18 RADIOLOGICALLY ISOLATED SYNDROME (RIS)

Aksel Siva, *University of Istanbul (Istanbul, Turkey)*

17.36 NOVEL TECHNIQUES FOR ASSESSING DEMYELINATION AND REGENERATION

Netta Levin, *Hadassah Hebrew University Medical Center (Jerusalem, Israel)*

17.54 HIGH RESOLUTION MRI OF LESION REPAIR IN MULTIPLE SCLEROSIS

Daniel Reich, *NINDS, NIH (Bethesda, MD, USA)*

18.12 ADVANCED MR TECHNIQUES FOR IMAGING DEMYELINATION AND NEURODEGENERATION

Matilde Inglese, *Icahn School of Medicine at Mount Sinai (New York, NY, USA)*

PHILOSOPHICAL AND SPIRITUAL ASPECTS OF NEUROIMMUNOLOGY

18.00 – 19.30 ROOM B: SCHWARTZ

18.00 THE PHILOSOPHY OF AUTOIMMUNITY

Irun Cohen, *The Weizmann Institute of Science (Rehovot, Israel)*

18.30 ANCIENT GREEK PHILOSOPHICAL AND BIBLICAL ROOTS OF NEUROIMMUNOLOGY AND NEUROIMMUNOLOGY AND NEUROIMMUNOLOGICAL EFFECTS OF FAIT

Dimitrios Karussis, *Hadassah Hebrew University Medical Organisation (Jerusalem, Israel)*



- 19.00 THE IMPACT OF STRESS ON HUMAN ONTOLOGY**
George Chrousos, *University of Athens Medical School (Athens, Greece) / NICHD, NIH (Bethesda, MD, USA)*
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PEDIATRIC NEUROIMMUNOLOGY

17.00 – 18.15 ROOM C: ESHKOL

Chairs: Tanuja Chitnis and Ron Milo

- 17.00 PEDIATRIC ENCEPHALITIS AND CEREBELITIS**
Yael Hacoen, *John Radcliffe Hospital, University of Oxford (Oxford, UK)*
- 17.19 STRESS AND NEURO-ENDOCRINOIMMUNOLOGY IN CHILDREN AND ADOLESCENTS**
George Chrousos, *University of Athens Medical School (Athens, Greece) / NICHD, NIH (Bethesda, MD, USA)*
- 17.37 PEDIATRIC MS AND RELATED SYNDROMES**
Tanuja Chitnis, *Brigham and Women's Hospital and Massachusetts General Hospital (Brookline, MA, USA)*
- 17.56 AUTOIMMUNE EPILEPSY – FROM SYMPTOMS TO SYNAPSE**
Sukhe Wright, *Birmingham Children's Hospital (Birmingham, UK)*