

MONDAY, OCTOBER 27**7.30-8.30 CONGRESS REGISTRATION****MORNING****ROOM A****PLENARY SESSION: PATHOGENESIS OF NEUROIMMUNE DISORDERS**Chairs: **H. Wekerle, M. Racke**

08.30-08.45	Welcome Address	Hartmut Wekerle, ISNI President
08.45-09.30	Large scale analysis of proteins, lipids and gene transcripts in MS tissue reveal multiple therapeutic targets for different stages of disease	Mc Farlin Memorial Lecture, Larry Steinman
09.30-10.00	COFFEE BREAK	
10.00-10.45	Autoimmune channelopathies: John's legacy	Newsom Davis Memorial Lecture Angela Vincent
10.45-11.30	Immune mediated disorders of memory, cognition and psychosis	Josep Dalmau
12.00-13.00	LUNCH SYMPOSIUM-IMMUNO THERAPY: Targeted Therapy: B cells join the A-list	Steve Hauser

BALLROOM**11.30-13.15 POSTERS & LUNCH****POSTER SESSION: MS PATHOGENESIS AND IMMUNOLOGY****1 - GENE EXPRESSION PROFILE OF NEUROMYELITIS OPTICA BRAIN LESIONS -**

Satoh Jun-ichi^{*[1]}, Misawa Tamako^[1], Obayashi Shinya^[1], Tabunoki Hiroko^[1], Yamamura Takashi^[2], Arima Kunimasa^[2], Konno Hidehiko^[3]
^[1]Meiji Pharmaceutical University ~ Tokyo ~ Japan - ^[2]National Institute of Neuroscience ~ Tokyo ~ Japan - ^[3]Nishitaga National Hospital ~ Sendai ~ Japan

2 - MXA EXPRESSION IN MULTIPLE SCLEROSIS -

Furuyama Hiroyasu^{*[2]}, Chiba Susumu^[2], Okabayashi Tamaki^[3], Yokota Shin-ichi^[3], Nonaka Michio^[4], Hisahara Shin^[4], Imai Tomihiro^[4], Warabi Tateshi^[2], Fujii Nobuhiro^[3], Shimohama Shun^[4]
^[2]Sapporo Yamanoue Hospital Neuromedical Center ~ Sapporo ~ Japan - ^[3]Department of Microbiology, School of Medicine, Sapporo Medical University ~ Sapporo ~ Japan - ^[4]Department of Neurology, School of Medicine, Sapporo Medical University ~ Sapporo ~ Japan

3 - THE PLASMACYTOID CELL: A CLUE TO THE PATHOGENESIS OF MULTIPLE SCLEROSIS? -Crawford Colin L.^{*[1]}^[1]Imperial College of Medicine, Charing Cross Hospital, London, UK**4 - FUNCTIONAL INTERLEUKIN-15 PROVIDED BY HUMAN ASTROCYTES PROMOTES EFFECTOR MEMORY CD8 T CELL RESPONSES IN ACTIVE MULTIPLE SCLEROSIS LESIONS -**Saikali Philippe^{*[1]}, Antel Jack^[1], Arbour Nathalie^[2]^[1]Montreal Neurological Institute ~ Montreal ~ Canada - ^[2]Centre Hospitalier de l'Université de Montréal ~ Montréal ~ Canada



5 - PROTEOMIC PROFILING OF CEREBROSPINAL FLUID DELINEATES A DIFFERENT PATHOGENESIS BETWEEN MULTIPLE SCLEROSIS AND NEUROMYELITIS OPTICA -

Komori Mika^{*[1,4]}, Matsuyama Yumiko^[2], Nirasawa Takashi^[2], Tanaka Masami^[3], Tomimoto Hidekazu^[1], Takahashi Ryosuke^[1], Tashiro Kei^[5], Ikegawa Masaya^[5], Kondo Takayuki^[4]

^[1]Kyoto University of Medicine ~ Kyoto ~ Japan - ^[2]Bruker Daltonics ~ Kanagawa ~ Japan - ^[3]Utano National Hospital ~ Kyoto ~ Japan - ^[4]National Hospital Organization Nagasaki Medical Center of Neurology ~ Nagasaki ~ Japan - ^[5]Kyoto Prefectural University of Medicine ~ Kyoto ~ Japan

6 - ROLE OF GRANZYME B IN T CELLS-INDUCED NEUROTOXICITY AND NEUROPROTECTIVE STRATEGIES USING THE NEW SERINE-PROTEASE INHIBITOR SERPINA3N -

Haile Yohannes^{*[2]}, Pasichnyk Dion^[2], Simmen Katia^[2], Bleackley Chris^[2], Giuliani Fabrizio^[2]

^[2]University of Alberta ~ Edmonton ~ Canada

7 - DISCORDANCE BETWEEN INHIBITORY EFFECT OF ROLIPRAM ON TH1/TH17 T CELLS RESPONSES IN MS AND ITS LACK OF EFFICACY ON BRAIN INFLAMMATION -

Martin Jayne^[1], Orlowski Robert^[2], Bielekova Bibiana^{*[1]}

^[1]Neuroimmunology Branch/NINDS/NIH ~ Bethesda ~ United States - ^[2]Waddell Center for MS, University of Cincinnati ~ Cincinnati ~ United States

8 - ELEVATED SERUM SEMA4A LEVEL IN PATIENTS WITH MULTIPLE SCLEROSIS -

Nakatsuji Yuji^{*[1]}, Moriya Masayuki^[1], Okuno Tatsusada^[1], Kinoshita Makoto^[1], Sugimoto Tomoyuki^[1], Konomi Ayako^[2], Nakano Misa^[3], Kikutani Hitoshi^[1], Kumano Atsushi^[1], Sakoda Saburo^[1]

^[1]Osaka University ~ Osaka ~ Japan - ^[2]Boehringer-Ingelheim ~ Osaka ~ Japan - ^[3]Toyonaka municipal hospital ~ Osaka ~ Japan

9 - IMMUNOGLOBULINS (IGS) IN CEREBROSPINAL FLUID (CSF) OF MULTIPLE SCLEROSIS (MS) PATIENTS BIND PURIFIED MYELIN AND MYCOPLASMA LIPIDS: STUDY OF THE FMC-ACETYL-CEREBROSIDES, MFGL-II AND OTHER COMPLEX LIPIDS -

Podbielska Maria^{*[1]}, Levery Steven^[2], Dasgupta Somsankar^[1], Hogan Edward^[1]

^[1]Institute Molecular Med & Genetics, MCG ~ Augusta ~ United States - ^[2]Univ New Hampshire ~ Durham ~ United States

10 - EXPRESSION OF CD26 IN MS WHITE MATTER: IMPLICATIONS FOR PATHOGENESIS VIA CLEAVAGE OF CCL2 -

Denney Helen^{*[1]}, Sharrack Basil^[2], Bunning Rowena^[1], Clench Malcolm^[1], Woodroffe Nicola^[1]

^[1]Biomedical Research Centre ~ Sheffield ~ United Kingdom - ^[2]The Royal Roomshire Hospital ~ Sheffield ~ United Kingdom

11 - WHOLE TRANSCRIPT AND ALTERNATIVE SPLICING ANALYSIS OF GENE EXPRESSION IN PERIPHERAL BLOOD CD8+ T CELLS FROM MS-DISCORDANT MONOZYGOTIC TWINS AND UNRELATED PATIENTS AND CONTROLS -

Annibali Viviana^[1], Picardi Ernesto^[2], Calogero Raffaele^[3], Cannoni Stefania^[1], Romano Silvia^[1], Angelini Daniela^[4], Visconti Andrea^[1], Coroniti Giuseppe^[1], Battistini Luca^[4], Pesole Graziano^[5], Ristori Giovanni^[1], Salvetti Marco^{*[1]}, Mechelli Rosella^[1]

^[1]S. Andrea Hospital, Universit Sapienza ~ Rome ~ Italy - ^[2]Dipartimento di Biologia Cellulare, Universit della Calabria ~ Arcavacata di Rende ~ Italy - ^[3]Department of Clinical and Biological Sciences, University of Torino ~ Torino ~ Italy - ^[4]Labpratory of Neuroimmunology, Fondazione S. Lucia ~ Rome ~ Italy - ^[5]Istituto Tecnologie Biomediche, CNR ~ Bari ~ Italy

12 - CYTOTOXIC T CELLS MEDIATE SUB-LETHAL ASTROCYTE INJURY IN AN MHC UNRESTRICTED MANNER -

Darlington Peter^{*[1]}, Johnson Trina^[1], Bar-or Amit^[1], Antel Jack^[1]

^[1]McGill/MNI ~ Montreal ~ Canada

13 - EXTRACELLULAR MATRIX IN MULTIPLE SCLEROSIS LESIONS: INDUCTION OF FIBRILLAR COLLAGENS, BIGLYCAN, AND DECORIN IN ASSOCIATION WITH INFILTRATING IMMUNE CELLS -

Mohan Hema^{*[2]}, Eisele Sylvia^[2], Krumbholz Markus^[2], Sixt Michael^[3], Lassmann Hans^[4], Wekerle Hartmut^[2], Hohlfeld Reinhard^[6], Meinl Edgar^[6]

^[2]Max-Planck Institute f r Neurobiology ~ Martinsried ~ Germany - ^[3]Max-Planck Institute f r Biochemistry ~ Martinsried ~ Germany - ^[4]Center for Brain Research ~ Vienna ~ Austria - ^[6]Institute f r Clinical Neuroimmunology ~ Munich ~ Germany

14 - DISCRIMINATIVE ANALYSIS OF RELAPSING -REMITTING NEUROMYELITIS OPTICA / OPTICSPINAL MULTIPLE SCLEROSIS AND CONVENTIONAL MULTIPLE SCLEROSIS BASED ON DIFFUSION TENSOR IMAGING AND MAGNETIC RESONANCE SPECTROSCOPY IN JAPAN -

Nakane Shunya^{*[2]}, Harada Masafumi^[1], Furutani Kaori^[1], Matsui Naoko^[1], Mitsui Takao^[1], Izumi Yuishin^[1], Kaji Ryuji^[1]

^[1]Department of Neurology, Institute of Health Bioscience, Tokushima University Graduate School of Medicine ~ Tokushima ~ Japan - ^[2]Department of Neurology, Nagasaki Medical Center of Neurology ~ Nagasaki ~ Japan

15 - TH1/TH2/TH17 AND TREG RELATED TRANSCRIPTION FACTORS AND CYTOKINES IN MULTIPLE SCLEROSIS -

Edstrom Mans^{*[1]}, Dahle Charlotte^[2], Jenmalm Maria^[1], Møllergaard Johan^[2], Mjosberg Jenny^[1], Press Rayomand^[3], Vrethem Magnus^[2], Ernerudh Jan^[1]

^[1]Department of Clinical and Experimental Medicine ~ Linköping ~ Sweden - ^[2]Department of Neurology ~ Linköping ~ Sweden - ^[3]Department of Neurology ~ Stockholm ~ Sweden

16 - THE PERSISTENCY OF HIGH LEVELS OF PSTAT3 EXPRESSION IN CIRCULATING CD4+ T CELLS FROM CIS PATIENTS FAVOURS THE EARLY CONVERSION TO CLINICALLY DEFINED MULTIPLE SCLEROSIS -

Frisullo Giovanni^[1], Nociti Viviana^[1], Iorio Raffaele^[1], Agata Katia Patanella^[1], Marti Alessandro^[1], Bianco Assunto^[1], Mirabella Massimiliano^[1], Tonali Pietro Attilio^[1], Batocchi Anna Paola^{*[1]}

^[1]Policlinico Gemelli ~ Roma ~ Italy

17 - THE RELAPSING DYNAMICS OF MULTIPLE SCLEROSIS DEPENDS ON CONTROL PROPERTIES OF PERIPHERAL IMMUNE TOLERANCE -

Velez de Mendizabal Nieves^[1], Bragard Jean^[1], Goñi Joaquin^[1], Martinez-Forero Ivan^[1], Martinez-Pasamar Sara^[1], Sepulcre Jorge^[1], Villoslada Pablo^{*[1]}

^[1]University of Navarra ~ Pamplona ~ Spain

18 - TOLL-LIKE RECEPTORS 2 INDUCE REGULATORY B CELLS DURING HELMINTH INFECTIONS ASSOCIATED WITH MULTIPLE SCLEROSIS -

Correale Jorge^{*[1]}, Farez Mauricio^[1]

^[1]Institute for Neurological Research Dr. Raúl Carrea, FLENI ~ Buenos Aires ~ Argentina

19 - CD4+CD25+FOXP3+PDI - NAÏVE REGULATORY T CELLS IN ACUTE AND STABLE RELAPSING-REMITTING MULTIPLE SCLEROSIS AND THEIR MODULATION BY THERAPY -

Saresella Marina^{*[1]}, Marventano Ivana^[1], Longhi Renato^[2], Lissoni Francesca^[3], Trabattoni Daria^[3], Mendozzi Laura^[1], Caputo Domenico^[1], Clerici Mario^[4]

^[1]Don C. Gnocchi ONLUS Foundation IRCCS ~ Milano ~ Italy - ^[2]CNR ~ Milano ~ Italy - ^[3]University of Milan ~ Milano ~ Italy - ^[4]Don C. Gnocchi ONLUS Foundation IRCCS-University of Milan ~ Milano ~ Italy

20 - PERIPHERAL BLOOD MONONUCLEAR CELLS IMMUNOPHENOTYPING AND INTERFERON BETA TREATMENT RESPONSIVITY IN CLINICALLY ISOLATED SYNDROME SUGGESTIVE OF CENTRAL NERVOUS SYSTEM DEMYELINATION -

Krasulova Eva^{*[1]}, Havrdova Eva^[1], Mareckova Helena^[1], Horakova Dana^[1], Tyblova Michaela^[1], Kemlink David^[1]

^[1]First Medical Faculty, Charles University ~ Prague ~ Czech Republic

21 - GAMMADelta T CELLS DERIVED FROM MULTIPLE SCLEROSIS PATIENTS MEDIATE ANTIBODY DEPENDENT CELL CYTOTOXICITY AND POTENTIALLY REGULATE HUMORAL IMMUNITY -

Chen Zhihong^{*[1]}, Freedman Mark^[2]

^[1]University of Ottawa ~ Ottawa ~ Canada - ^[2]Ottawa General Hospital ~ Ottawa ~ Canada

22 - NK CELL CYTOTOXICITY IMPAIRMENT IN MULTIPLE SCLEROSIS -

Campagnolo Denise^{*[2]}, Liu Ruolan^[2], Piao Wenhua^[2], Kala Mrinalini^[2], Vollmer Timothy^[2], Shi Fu-Dong^[2], Rhodes Susan^[2], Wang Ming-Yi^[2]

^[2]SJHMC/Barrow Neurological Institute ~ Phoenix Arizona ~ United States

23 - ALTERNATIVELY AND CLASSICALLY ACTIVATED MACROPHAGES MIGRATE DIFFERENTLY IN ORGANOTYPIC CNS CULTURES -

Vereyken Elly^{*[1]}, Dijkstra Christine^[1], Teunissen Charlotte^[1]

^[1]VU university medical center, ~ Amsterdam ~ Netherlands

24 - INTERFERON-BETA SIGNAL TRANSDUCTION, MULTIPLE SCLEROSIS AND AUTO-ANTIBODIES -

Gavasso Sonia^{*[3]}, Skavland Jorn^[4], Gjertsen Bjørn Tore^[1], Myhr Kjell-Morten^[1], Vedeler Christian^[1]

^[1]University of Bergen and Haukeland University Hospital ~ Bergen ~ Norway - ^[3]University of Bergen and Haukeland University Hospital ~ Bergen ~ Norway - ^[4]University of Bergen ~ Bergen ~ Norway

25 - EVALUATION OF THE PD-1/PD-L1 COSTIMULATORY PATHWAY IN MULTIPLE SCLEROSIS -

Trabattoni Daria^{*[1]}, Saresella Marina^[2], Fasano Francesca^[1], Pacci Michela^[1], Marventano Ivana^[2], Mendozzi Laura^[2], Caputo Domenico^[2], Borelli Manuela^[1], Clerici Mario^[3]

^[1]University of Milan ~ Milano ~ Italy - ^[2]Don C. Gnocchi ONLUS Foundation IRCCS ~ Milano ~ Italy - ^[3]Don C. Gnocchi ONLUS Foundation IRCCS-University of Milan ~ Milano ~ Italy



26 - LOSS OF THERAPEUTIC EFFECTS OF GLATIRAMER ACETATE IN CX3CR1-/- MICE -

Piao Wen-Hua^{*[1]}, Wang Ming-Yi^[1], Campagnolo Denise^[1], Shi Fu-Dong^[1], Vollmer Timothy^[2]

^[1]department of Neurology, BNI ~ Phx ~ United States - ^[2]department of Neurology, University of Colorado, school of medicine ~ denver ~ United States

27 - INDUCTION OF IL-12/IL-23 BY SUBSTANCE P IN HUMAN PBMC AND EXPRESSION OF SUBSTANCE P RECEPTOR IN PERIPHERAL BLOOD OF MS PATIENTS -

Kiyokazu Kawabe^{*[1]}, Manjit Braitch^[2], Janek Vilisaar^[3], Cris S Constantinescu^[4]

^[1]Division of Clinical Neurology, University of Nottingham, Nottingham ~ United Kingdom - ^[2]Division of Clinical Neurology, University of Nottingham, Nottingham ~ United Kingdom - ^[3]Division of Clinical Neurology, University of Nottingham, Nottingham ~ United Kingdom - ^[4]Division of Clinical Neurology, University of Nottingham ~ Nottingham ~ United Kingdom

28 - NATALIZUMAB DECREASES THE NUMBERS OF DENDRITIC CELLS AND CD4+ T CELLS IN CEREBRAL PERIVASCULAR SPACES -

Martin Maria del Pilar^[1], Cravens Petra^{*[1]}, Winger Ryan^[1], Frohman Elliot M.^[1], Racke Michael K.^[2], Eagar Todd N.^[1], Monson Nancy L.^[1], Zamvil Scott S.^[4], Weber Martin S.^[5], Hemmer Bernhard^[5], Karandikar Nitin J.^[1], Kleinschmidt-DeMasters B.J.^[6], Stuve Olaf^[7]

^[1]The University of Texas Southwestern Medical Center ~ Dallas ~ United States - ^[2]The Ohio State University Medical Center ~ Columbus ~ United States - ^[4]University of California ~ San Francisco ~ United States - ^[5]Technical University of Munich ~ Munich ~ Germany - ^[6]University of Colorado Health Sciences Center ~ Denver ~ United States - ^[7]VA North Texas Health Care System ~ Dallas ~ United States

29 - T-CELL RESPONSES TO NEUROFILAMENT LIGHT PROTEIN ARE PART OF THE NORMAL IMMUNE REPERTOIRE -

Huizinga Ruth^{*[1]}, Hintzen Rogier^[1], Assink Karin^[1], Van Meurs Marjan^[1], Amor Sandra^[2]

^[1]Erasmus MC, University Medical Center ~ Rotterdam ~ Netherlands - ^[2]VU University Medical Center ~ Amsterdam ~ Netherlands

30 - INDUCTION OF IL-27 IN HUMAN DENDRITIC CELLS TREATED WITH IFN BETA -

Sweeney Cheryl^{*[1]}, Fletcher Jean^[1], Mills Kingston^[1]

^[1]School of Biochemistry and Immunology ~ Dublin ~ Ireland

31 - DIRECT EVIDENCE OF A THYMIC ABNORMALITY IN RELAPSING-REMITTING MULTIPLE SCLEROSIS -

Williams Julia^[1], Mason Helen^[1], Lapierre Yves^[1], Antel Jack^[1], Haegert David^{*[1]}

^[1]McGill University ~ Montreal ~ Canada

32 - MACROPHAGE MIGRATION INHIBITORY FACTOR IN SERA IN PATIENTS WITH MULTIPLE SCLEROSIS -

Rinta Sanna^{*[1]}, Raunio Minna^[2], Elovaara Irina^[3]

^[1]Sanna Rinta ~ University of Tampere ~ Finland - ^[2]Minna Raunio ~ Tampere University Hospital, Tampere ~ Finland - ^[3]Irina Elovaara ~ Tampere University Hospital, Tampere ~ Finland

33 - HLA CLASS II ASSOCIATION WITH MULTIPLE SCLEROSIS AND ITS RELATED DISORDERS IN JAPAN -

Kondo Takayuki^{*[1]}, Komori Mika^[2], Tomimoto Hidekazu^[2], Tanaka Masami^[3], Tanaka Keiko^[4], Takahashi Ryouzuke^[2], Matsuo Hidenori^[1], Saida Takahiko^[5]

^[1]Nagasaki Medical Center of Neurology ~ Nagasaki ~ Japan - ^[2]Kyoto University of Medicine, Department of Neurology ~ Kyoto ~ Japan - ^[3]Utano National Hospital ~ Kyoto ~ Japan - ^[4]Kanazawa Medical University ~ Kanazawa ~ Japan - ^[5]Kyoto Miniren Chuo Hospital ~ Kyoto ~ Japan

34 - SOLUBLE TRAIL and BAFF LEVELS IN MULTIPLE SCLEROSIS DURING INTERFERON- B THERAPY -

Aslı KURNEI^[1], Ömer Faruk AYDIN^[2], Dicle GÜÇ^[3], Güliz SAYAT^[1], Hande CANPINAR^[3], Mehmet YÖRÜBULUT^[4], Rana KARABUDAK^[1].

^[1]Hacettepe University Hospitals, Department of Neurology, Neuroimmunology Unit, Ankara, Turkey. ^[2]Ondokuz Mayıs University, Faculty of Medicine, Department of Pediatric Neurology, Samsun, Turkey. ^[3]Hacettepe University, Oncology Institute, Department of Basic Oncology Ankara, Turkey. ^[4]Primer Medical Imaging Center, Ankara, Turkey.

35 - DYSREGULATED BDNF, NGF AND NT3 MRNA PRODUCTION BY IMMUNE CELLS OF PATIENTS WITH RR-MS -

Karni Arnon^{*[1]}, Urshansky Natali^[2], Mausner Karin^[1], Fahoum Firas^[2]

- ^[1]Tel Aviv Sourasky Medical Center, Tel Aviv University ~ Tel Aviv ~ Israel - ^[2]Tel Aviv Sourasky Medical Center ~ Tel Aviv ~ Israel

36 - DIFFERENTIAL GRANZYME B EXPRESSION AND NEUROTOXICITY BY T CELL-SUBSETS -

Haile Yohannes*^[1], Pasichnyk Dion^[1], Giuliani Fabrizio^[1]

- ^[1]University of Alberta ~ Edmonton ~ Canada

37 - TIME COURSE OF MULTIPLE SCLEROSIS LESIONS VISUALIZED BY MRI: INSIGHT INTO FOCAL PATHOLOGY -

Zellini Francesco^[1], Passeri Alessandro^[1], Barilaro Alessandro^[1], Caleri Francesca^[1], Gasperini Claudio^[2], Pozzilli Carlo^[3], Massacesi Luca*^[1]

- ^[1]University of Florence ~ Florence ~ Italy - ^[2]S. Camillo Forlanini Hospital ~ Rome ~ Italy - ^[3]University of Rome ~ Rome ~ Italy

38 - ABNORMALLY DIFFERENTIATED CD28NULL TH1 CELLS SPECIFICALLY RESPOND TO ALPHAB-CRYSTALLIN IN MULTIPLE SCLEROSIS -

Aranami Toshimasa*^[1], Sato Wakiro^[1], Yamamura Takashi^[1]

- ^[1]Department of Immunology, National Institute of Neuroscience, NCNP ~ Kodaira ~ Japan

39 - B-T CELL INTERACTIONS IN MULTIPLE SCLEROSIS -

Harp Christopher*^[1], Lovett-Racke Amy^[2], Racke Michael^[2], Frohman Elliot^[1], Monson Nancy^[1]

- ^[1]University of Texas Southwestern Medical Center ~ Dallas ~ United States - ^[2]Ohio State University Medical Center ~ Columbus ~ United States

POSTER SESSION: IMMUNOTHERAPY

1 - ROLE OF METHYLTIOADENOSINE FOR THE TREATMENT OF MULTIPLE SCLEROSIS -

Villoslada Pablo*^[1], Fernandez-Diez begoña^[1], Moreno Beatriz^[1], Palacios Ricardo^[1]

^[1]University of Navarra ~ Pamplona ~ Spain

2 - COMBINATION TREATMENT OF GLATIRAMER ACETATE AND MINOCYCLINE AFFECTS PHENOTYPE EXPRESSION OF BLOOD MONOCYTE-DERIVED DENDRITIC CELLS IN MULTIPLE SCLEROSIS PATIENTS -

Ruggieri Maddalena^[1], Pica Carmela^[1], Lia Anna^[1], Zimatore Giovanni Battista^[1], Livrea Paolo^[1], Trojano Maria^[1], Avolio Carlo*^[2]

^[1]University of Bari ~ Bari ~ Italy - ^[2]University of Foggia ~ Foggia ~ Italy

3 - CYTOKINE-NEUROANTIGEN FUSION PROTEINS ATTENUATE THE CLINICAL EXPRESSION OF EAE -

Mannie Mark D.*^[1], Abbott Derek J.^[1], Blanchfield J. Lori^[1]

^[1]East Carolina University ~ Greenville, NC ~ United States

4 - STATINS AFFECT TH-17-MEDIATED AUTOIMMUNE RESPONSE IN MULTIPLE SCLEROSIS -

Zhang Xin^[1], Speer Danielle^[1], Markovic-Plese Silva*^[1]

^[1]Department of Neurology, University of North Carolina at Chapel Hill ~ Chapel Hill ~ United States

5 - CASE-REPORT: CLADRIBINE AND ALEMTUZUMAB HAEMATOLOGICAL TREATMENT OF CHRONIC LYMPHATIC LEUCEMIA AND STABILIZING EFFECT ON SECONDARY-PROGRESSIVE MULTIPLE SCLEROSIS -

Havrdova Eva*^[1], Krasulova Eva^[1], Kozak Tomas^[2], Cerna Olga^[2]

^[1]Charles University and General Teaching Hospital ~ Prague ~ Czech Republic - ^[2]University Hospital Kralovske Vinohrady ~ Prague ~ Czech Republ

6 - ADMINISTRATION OF AN MCP-1 VARIANT TO EAE MICE PREVENTS INFLAMMATORY CELL RECRUITMENT AND PROTECTS FROM DEMYELINATION AND AXONAL LOSS -

Brini Elena*^[1], Ruffini Francesca^[1], Bergami Alessandra^[1], Brambilla Elena^[1], Dati Gabriele^[2], Greco Beatrice^[2], Cirillo Rocco^[2], Proudfoot Amanda IE^[2], Furlan Rocco^[1], Zaratini Paola^[2], Martino Gianvito^[1]

^[1]San Raffaele Scientific Institute ~ Milano ~ Italy - ^[2]RMB/Merck Serono International S.A. ~ Torino ~ Italy

7 - TARGETING MYELIN BASIC PROTEIN TO ANTIGEN PRESENTING CELL SUBSETS VIA CYTOKINE RECEPTORS -

Blanchfield J. Lori*^[7], Mannie Mark D.^[5]

^[5]East Carolina University ~ Greenville, NC ~ United States - ^[7]East Carolina University ~ Greenville, NC ~ United States



8 - THE EFFECT OF NATALIZUMAB TREATMENT ON CYTOKINE PROFILES AND CLINICAL OUTCOME MEASURES IN MULTIPLE SCLEROSIS -

Khademi Mohsen^[2], Rafatnia Farshid^[2], Andersson Magnus^[3], Brundin Lou^[3], Wallström Erik^[4], Piehl Fredrik^[2], Olsson Tomas^[2]*

^[2]Karolinska Institutet ~ Stockholm ~ Sweden - ^[3]Karoliska University Hospital ~ Stockholm ~ Sweden - ^[4]Novartis ~ Basel ~ Switzerland

9 - MODULATING DC FROM IMMUNOGENIC TO TOLEROGENIC RESPONSES: A NOVEL MECHANISM OF AZATHIOPRINE (AZA) -

Aldinucci Alessandra^[2], Biagioli Tiziana^[2], Manuelli Cinzia^[3], Massacesi Luca^[2], Ballerini Clara^[2]*

^[2]Department of Neurological Sciences ~ Florence ~ Italy - ^[3]Department of Dermatological Sciences ~ Florence ~ Italy

10 - A NON-COXIB CELECOXIB ANALOGUE FOR TREATMENT OF NEUROINFLAMMATION: MECHANISM OF ACTION THROUGH INHIBITION OF CYTOKINE SECRETION -

Alloza Iraide^[1], McLaughlin Martin^[2], Mizuno Miho^[3], Miyake Sachiko^[3], Hirabayashi Yasuhiko^[3], Vandenbroeck Koen^[1]*

^[1]Universidad del Pais Vasco ~ Leioa ~ Spain - ^[2]Queen's University Belfast ~ Belfast ~ Ireland - ^[3]National Institute of Neuroscience ~ Tokyo ~ Japan - ^[4]Graduate School of Medicine ~ Sendai ~ Japan

11 - IMMUNOMODULATION OF THEILER'S VIRUS-INDUCED DEMYELINATION [TVID] USING ENCAPSULATED OVINE INTERFERON-TAU [IFNT]: THE NOVEL ADMINISTRATION OF A NOVEL TYPE I IFN IN AN ANIMAL MODEL OF MULTIPLE SCLEROSIS [MS] -

Dean Dana^[1], Steelman Andrew^[1], Arenas-Gamboa Angela^[2], Rice-Ficht Allison^[2], Young Colin^[1], Bazer Fuller^[1], Burghardt Robert^[1], Welsh C. Jane^[1]*

^[1]Texas A&M University College Of Veterinary Medicine ~ College Station ~ United States - ^[2]Texas A&M Health Science Center College of Medicine ~ College Station ~ United States

POSTER SESSION: BLOOD BRAIN BARRIER AND CHEMOKINES

1 - BLOOD-BRAIN BARRIER BREAKDOWN AND REPAIR FOLLOWING GLIOTOXIC DRUG INJECTION IN THE BRAINSTEM OF STREPTOZOTOCIN-DIABETIC RATS -

Bondan Eduardo^[1], Lallo Maria Anete^[1]*

^[1]University Paulista; University Cruzeiro do Sul ~ São Paulo ~ Brazil

2 - BLOOD-BRAIN BARRIER CHARACTERISTICS IN MULTIPLE SCLEROSIS -

Kooij Gijs^[1], van Horssen Jack^[1], van der Pol Susanne^[1], Dijkstra Christine^[1], de Vries Elga^[1]*

^[1]VU medical center ~ Amsterdam ~ Netherlands

3 - INTERLEUKIN-25 IMPROVES TUMOR NECROSIS FACTOR-ALPHA-INDUCED DISRUPTION OF BLOOD BRAIN BARRIER PROPERTIES IN MOUSE BRAIN CAPILLARY ENDOTHELIAL CELLS -

Sonobe Yoshifumi^[1], Takeuchi Hideyuki^[1], Kataoka Kunio^[1], Kawanokuchi Jun^[1], Mizuno Tetsuya^[1], Suzumura Akio^[1]*

^[1]Nagoya University ~ Nagoya ~ Japan

4 - THE KINETIC CHANGES OF BBB AND EXPRESSION OF ICAM-1 IN RATS WITH EAE TREATED WITH OR WITHOUT TRIPTOLIDE -

MA Cun Gen^[1], YU Jie Zhong^[1], JI Ning^[1], SUN Yong Sheng^[1], FAN Hong Cui^[1], LIANG Li Yun^[1]*

^[1]Shanxi Datong University ~ Datong ~ China

5 - THE EXPRESSION OF THE SEMAPHORIN IN THE SPINAL CORD OF EAE AND ITS RELEVANCE TO IMMUNE CELL TRAFFICKING -

Moriya Masayuki^[1], Nakatsuji Yujii^[1], Kumanogoh Atsushi^[2], Okuno Tatsusada^[2], Kinoshita Makoto^[1], Konomi Ayako^[3], Sakoda Saburo^[1]*

^[1]Osaka University Graduate School of Medicine ~ Suita ~ Japan - ^[2]Research Institute for Microbial Diseases, Osaka University ~ Suita ~ Japan - ^[3]Kawanishi Pharma Research Institute, Nippon Boeringer Ingelheim Co., Ltd. ~ Kawanishi ~ Japan

6 - INTERFERON-BETA REGULATES CD73 AND ADENOSINE EXPRESSION AT THE BLOOD-BRAIN BARRIER -

Airas Laura^[1], Niemelä Jussi^[1], Igal Ifergan^[2], Prat Alexandre^[2], Gennady Yegutkin^[1], Jalkanen Sirpa^[1]*

^[1]University of Turku ~ Turku ~ Finland - ^[2]Center for Research on Brain Diseases ~ Montreal ~ Canada

7 - CYTOKINE INDUCED SHEDDING OF FRACTALKINE FROM HUMAN BRAIN ENDOTHELIAL CELL LINE, HCMEC/D3: IMPLICATIONS FOR MULTIPLE SCLEROSIS -

Hurst Louise^[1], Bunning Rowena^[1], Sharrack Basil^[2], Woodroffe Nicola^[1]*

^[1]Sheffield Hallam University ~ Sheffield ~ United Kingdom - ^[2]The Royal Roomshire Hospital ~ Sheffield ~ United Kingdom

8 - S100B AS A NOVEL AND ACCESSIBLE DETERMINANT FOR THE DEVELOPMENT AND SEVERITY OF MONOCYTE-DRIVEN ENCEPHALITIS IN AIDS -

MacLean Andrew^{*[1]}, Redmann Rachel^[1], Ivey Nathan^[1], Didier Peter^[1], Lackner Andrew^[1]

^[1]Tulane National Primate Research Center ~ New Orleans ~ United States

9 - SONIC HEDGEHOG IS SECRETED BY HUMAN ASTROCYTES AND PROMOTES OPTIMAL BLOOD-BRAIN BARRIER FUNCTIONING

Dodelet-Devillers Aurore^{*[1]}, Ifergan Igal^[1], Bernard Monique^[1], Kebir Hania^[1], Cayrol Romain^[1], Wosik Karolina^[1], Charron Frédéric^[2], Prat Alexandre^[1]

^[1]CHUM - Université de Montréal ~ Montréal ~ Canada - ^[2]Institut de recherches cliniques de Montréal (IRCM) ~ Montréal ~ Canada

10 - DIFFERENTIAL EXPRESSION OF ANGIOTENSIN RECEPTORS AT THE BLOOD-BRAIN BARRIER IN CNS INFLAMMATION

Füchtbauer Laila Maria^{*[1]}, Reza Khorrooshi^[1], Henrik Toft-Hansen^[1], Trevor Owens^[1]

^[1]University of Southern Denmark ~ Odense ~ Denmark

11 - ACTIVATION OF JUNCTIONAL ADHESION MOLECULE-A INDUCES A BARRIER BREAKDOWN FOR SOLUTES IN CULTURED HUMAN CEREBRAL ENDOTHELIAL CELLS VIA AN ERK-DEPENDENT MECHANISM

Basivireddy Jayasree^{*[3]}, Buttmann Mathias^[2], Rieckmann Peter^[3]

^[2]Dept of Neurology, University of wuerzburg, ~ Wuerzburg, Germany. ~ Germany - ^[3]Dept of Neurology, University of British Columbia, Vancouver, Canada ~ Dept of Neurology, University of Wuerzburg, Wuerzburg, Germany ~ Canada

12 - NINJURIN-1 IS AN ADHESION MOLECULE OF THE BLOOD-BRAIN BARRIER INVOLVED IN MONOCYTE RECRUITMENT TO THE CNS

Terouz Simone^{*[1]}, Kebir Hania^[1], Dodelet-Devillers Aurore^[1], Ifergan Igal^[1], Bernard Monique^[1], Cayrol Romain^[1], Stanimirovic Danica^[2], Prat Alexandre^[1]

^[1]University of Montreal ~ Montreal ~ Canada - ^[2]Institute for Biological Sciences ~ Ottawa ~ Canada

13 - DOXYCYCLINE TREATMENT DECREASES MORBIDITY AND MORTALITY OF MURINE NCC: EVIDENCE FOR REDUCTION OF APOPTOSIS, OXIDATIVE STRESS AND MMP ACTIVITY -

Alvarez Jorge^{*[1]}, Krishnamurthy Janani^[1], Teale Judy^[1]

^[1]University of Texas at San Antonio ~ San Antonio ~ United States

14 - CCL2, IL-1A AND LEPTIN LEVELS IN CEREBROSPINAL FLUID AND SERUM IN IDIOPATHIC INTRACRANIAL HYPERTENSION -

Dhungana Samish^[1], Woodroffe Nicola^[2], Sharrack Basil^[1]

^[1]sheffield teaching hospitals nhs trust ~ sheffield ~ United Kingdom - ^[2]sheffield roomam uiversity ~ sheffield ~ United Kingdom

15 - CCL5, CXCL10 AND CXCL11 CHEMOKINES IN ACTIVE AND STABLE RELAPSING-REMITTING MULTIPLE SCLEROSIS -

Szczucinski Adam^[2], Losy Jacek^{*[3]}

^[2]Department of Clinical Neuroimmunology University School of Medicine ~ Poznan ~ Poland - ^[3]Department of Clinical Neuroimmunology University School of Medicine ~ Poznan ~ Poland

16 - CLEAVAGE OF CCL2 BY MMPs 2 AND 9 REDUCES CELL MIGRATION WHICH MAY SUPPLEMENT THE EFFECTS OF IMMUNOMODULATORY THERAPY IN MULTIPLE SCLEROSIS -

Denney Helen^{*[1]}, Sharrack Basil^[2], Howell Stephen^[2], Price Sian^[2], Woodroffe Nicola^[1]

^[1]Biomedical Research Centre ~ Sheffield ~ United Kingdom - ^[2]The Royal Roomamshire Hospital ~ Sheffield ~ United Kingdom

17 - SKEWED PRO-INFLAMMATORY INNATE IMMUNITY IN IMMUNE DEFICIENT MICE IMPAIRS COGNITIVE FUNCTION THROUGH INHIBITION OF SYNAPTOGENESIS -

Yang ChunHui^[1], Zhu Julia^[2], Lu ZhenJie^[3], Magnus Chris^[4], Kipnis Jonathan^[5]

^[1]ChunHui Yang ~ The Department of Neuroscience, University of Virginia, Charlottesville, VA 22908-1392 ~ United States -

^[2]Julia Zhu ~ The Department of Neuroscience, University of Virginia, Charlottesville, VA 22908-1392 ~ United States - ^[3]Zhenjie

Lu ~ The Department of Neuroscience, University of Virginia, Charlottesville, VA 22908-1392 ~ United States - ^[4]Chris Magnus

~ The Department of Neuroscience, University of Virginia, Charlottesville, VA 22908-1392 ~ United States - ^[5]Jonathan Kipnis

~ The Department of Neuroscience, University of Virginia, Charlottesville, VA 22908-1392 ~ United States

18 - IMAGING CORRELATES OF INFLAMMATORY LEUKOCYTE ACCUMULATION AND CXCR4 / CXCR12 EXPRESSION IN CHRONIC MULTIPLE SCLEROSIS BRAINS -

Moll Natalia^{*[1]}, Cossoy Michael^[2], Fisher Elizabeth^[1], Tucky Barbara^[1], Rietsch Anna^[1], Fox Robert^[1], Trapp Bruce^[1], Ransohoff Richard^[1]

^[1]Cleveland Clinic ~ Cleveland, OH ~ United States - ^[2]Queen Elizabeth II Health Sciences Center ~ Halifax, Nova Scotia ~ Canada



POSTER SESSION: NEUROIMMUNE PHARMACOLOGY AND CROSSTALK

1 - A PILOT TRIAL OF LOW DOSE NALTREXONE IN PRIMARY PROGRESSIVE MULTIPLE SCLEROSIS -

Gironi Maira^{*[1]}, Martinelli Boneschi Filippo^[2], Sacerdote Paola^[3], Solaro Claudio^[4], Zaffaroni Mauro^[5], Cavarretta Rosella^[1], Muiola Lucia^[2], Cursi Marco^[2], Franchi Silvia^[3], Martinelli Vittorio^[2], Nemni Raffaello^[1], Comi Giancarlo^[2], Martino Gianvito^[2]

^[1]Fondazione Don Carlo Gnocchi ~ Milano ~ Italy - ^[2]San Raffaele Scientific Institute ~ Milano ~ Italy - ^[3]Department of Pharmacology, University of Milan ~ Milano ~ Italy - ^[4]Department of Neurology, ASL 3 genovese ~ Genova ~ Italy - ^[5]Multiple Sclerosis Study Center, Hospital of Gallarate ~ Gallarate (Va) ~ Italy

2 - THE EXPRESSION OF DARPP-32 IS REDUCED IN LEUKOCYTES OF PATIENTS WITH SCHIZOPHRENIA AND BIPOLAR DISORDER -

Souza Bruno^{*[1]}, Torres Karen^[1], Sampaio André^[1], Barros Alexandre^[1], Gollob Kenneth^[1], Dutra Walderez^[1], Romano-Silva Marco^[1]

^[1]UFMG ~ Belo Horizonte ~ Brazil

3 - SIGNALING PATHWAYS INVOLVED IN IL-1BETA-INDUCED REGULATION OF HMOR EXPRESSION IN NEURONS -

Mohan Shekher^{*[1]}, Fernando Samodha. C^[2], DeSilva Udaya^[2], Davis Randall. L^[1], Stevens Craig. W^[1]

^[1]Dept. of Pharmacology & Physiol., Okla. St. Uni., Ctr. for Health Sci. ~ Tulsa, OK ~ United States - ^[2]Dept. of Animal Sci., Okla. St. Uni. ~ Stillwater, OK ~ United States

4 - TREATMENT OF AUTOIMMUNE DISEASE USING A SMALL MOLECULE CYTOKINE INHIBITOR -

Kithcart Aaron P^{*[1]}, Sielecki T^[2], Short A^[1], Williams J^[1], Smith K^[1], Song F^[1], Whitacre CC^[1]

^[1]The Ohio State University ~ Columbus ~ United States - ^[2]Cytokine PharmaSciences ~ King of Prussia ~ United States

5 - EFFECTS OF RESTRAINT STRESS ON ADAPTIVE IMMUNE RESPONSES TO ACUTE THEILER'S VIRUS INFECTION IN SJL MICE -

Steelman Andrew^{*[1]}, Dean Dana^[1], Young Colin, R^[1], Smith Roger^[2], Meagher Mary^[3], Welsh Jane^[1]

^[1]Department of Veterinary Integrative Biosciences, College of Veterinary Medicine, Texas A&M University ~ College Station ~ United States - ^[2]Department of Veterinary Pathobiology, College of Veterinary Medicine, Texas A&M University ~ College Station ~ United States - ^[3]Department of Psychology ~ College Station ~ United States

6 - ACTIVE IMMUNIZATION WITH AMYLOID-BETA 1-42 SIGNIFICANTLY IMPAIRS MEMORY PERFORMANCE IN HEALTHY MICE -

Vollmar Patrick^{*[1]}, Kullmann Jennifer^[2], Thilo Barbara^[3], Kalluri Sudhakar Reddy^[1], Hartung Hans-Peter^[2], Nessler Stefan^[1], Hemmer Bernhard^[1]

^[1]Klinikum rechts der Isar, TU Munich ~ Munich ~ Germany - ^[2]Universitätsklinikum Düsseldorf, Heinrich-Heine Universität ~ Düsseldorf ~ Germany - ^[3]Universitätsklinikum Schleswig-Holstein ~ Kiel ~ Germany

7 - IMMUNOLOGICAL APPROACH FOR TREATING STRESS-INDUCED PATHOLOGIES -

Lewitus Gil^{*[1]}, Wilf-Yarkoni Adi^[1], Ziv Yaniv^[1], Shabat-Simon Maytal^[1], Gersner Roman^[1], Zangen Abraham^[1], Schwartz Micha^[1]

^[1]Weizmann Institute ~ Rehovot ~ Israel

10 - INFLAMMATION AFFECTS STRIATAL GLUTAMATE TRANSMISSION SINCE THE PRE-CLINICAL PHASE OF EXPERIMENTAL AUTOIMMUNE ENCEPHALOMYELITIS -

Centonze Diego^[1], Muzio Luca^[2], Rossi Silvia^[1], Cavasinni Francesca^[2], De Chiara Valentina^[1], Bergami Alessandra^[2], Musella Alessandra^[1], Bergamaschi Andrea^[2], Cencioni Maria Teresa^[3], Butti Erica^[2], Battistini Luca^[3], Furlan Roberto^[2], Martino Gianvito^[2]

^[1]Clinica Neurologica, Dipartimento di Neuroscienze, Università Tor Vergata ~ Roma ~ Italy - ^[2]San Raffaele Scientific Institute ~ Milano ~ Italy - ^[3]Centro Europeo per la Ricerca sul Cervello (CERC)/Fondazione Santa Lucia ~ Roma ~ Italy

11 - TNF-ALPHA INDUCES MACROAUTOPHAGY AND REGULATES MHC CLASS II EXPRESSION IN HUMAN SKELETAL MYOCYTES -

Keller Christian W.^{*[1]}, Lee Monica^[2], Turville Stuart G.^[3], Lünemann Anna^[2], Schmidt Jens^[1], Münz Christian^[2], Lünemann Jan D.^[2]

^[1]University of Goettingen ~ Goettingen ~ Germany - ^[2]Rockefeller University ~ New York ~ United States - ^[3]University of Sydney ~ Sydney ~ Australia

12 - REGULATION OF KAPPA OPIOID RECEPTORS (KOR) ON MURINE MACROPHAGE CELL LINE J774 BY INTERFERON-GAMMA -

Gabrilovac Jelka^{*[1]}, Brozovic Anamaria^[1], Cupic Barbara^[1]

^[1]Rudjer Boskovic Institute ~ Zagreb ~ Croatia

POSTER SESSION: CELL DEATH AND SURVIVAL**1 - MICROGLIA CELLS PROTECT NEURONS BY ENGLUFMENT OF INVADING NEUTROPHIL GRANULOCYTES – A NEW MECHANISM OF CNS IMMUNE PRIVILEGE -**Neumann Jens^[1], Dinkel Klaus^[1], Ullrich Oliver^[2], Riek-Burchardt Monika^{*[1]}, Gunzer Matthias^[3], Reymann Klaus G^[4]^[1]Leibniz Institute for Neurobiology ~ Magdeburg ~ Germany - ^[2]Institute of Anatomy University Zurich ~ Zurich ~ Switzerland - ^[3]Institute of Immunology, Otto von Guericke University ~ Magdeburg ~ Germany - ^[4]Institute for Applied Neurosciences and Leibniz Institute for Neurobiology ~ Magdeburg ~ Germany**2 - MICROGLIA FUNCTION IS MODULATED BY PROTEASE-ACTIVATED RECEPTOR 4 -**Riek-Burchardt Monika^{*[1]}, Dökert Maika^[1], Neumann Jens^[1], Reiser Georg^[2], Reymann Klaus G^[3]^[1]Leibniz Institute for Neurobiology ~ Magdeburg ~ Germany - ^[2]Institute for Neurobiochemistry, Otto-von-Guericke-University ~ Magdeburg ~ Germany - ^[3]Institute for Applied Neurosciences and Leibniz Institute for Neurobiology ~ Magdeburg ~ German**3 - THE ROLE OF COX-2 IN EXPERIMENTAL OLIGODENDROCYTE DEATH AND DEMYELINATION -**Carlson Noel G.^{*[1]}, Rojas Monica A.^[2], Redd Jonathan^[1], Wood Blair^[2], Hill Kenneth E.^[2], Rose John W.^[1]^[1]VA SLCHCS ~ Salt Lake City ~ United States - ^[2]University of Utah ~ Salt Lake City ~ United States**4 - BONE MARROW MESENCHYMAL STEM CELLS PROTECT NEURONS FROM EXCITOTOXIC DEATH -**Voulgari-Kokota Anda^{*[1]}, Delorme Bruno^[6], Taoufik Era^[7], Tseveleki Vivian^[8], Charbord Pierre^[9], Probert Lesley^[10]^[1]Anda Voulgari-Kokota ~ Athens ~ Greece - ^[6]Bruno Delorme ~ Tours ~ France - ^[7]Era Taoufik ~ Athens ~ Greece - ^[8]Vivian Tseveleki ~ Athens ~ Greece - ^[9]Pierre Charbord ~ Tours ~ France - ^[10]Lesley Probert ~ Athens ~ Greece**5 - CYTOTOXIC EFFECTS OF MYASTHENIA GRAVIS SERA ON CARDIOMYOCYTES IN VITRO -**Helgeland Geir^{*[1]}, Luckman Steven Paul^[1], Romi Fredrik^[2], Jonassen Anne Kristine^[3], Gilhus Nils Erik^[1]^[1]Department of Clinical Medicine, Section for Neurology, University of Bergen ~ Bergen ~ Norway - ^[2]Department of Neurology, Haukeland University Hospital ~ Bergen ~ Norway - ^[3]Department of Biomedicine, University of Bergen ~ Bergen ~ Norway**6 - MALIGNANT B CELLS EXPLOITING NEURONAL SURVIVAL FACTORS -**Chirimuuta Fungai^{*[1]}, Gordon John^[1], Rowe Martin^[1]^[1]Institute of Biomedical Research ~ Birmingham ~ United Kingdom**AFTERNOON****ROOM A****13.15-15.15 CONCURRENT SYMPOSIUM: DENDRITIC CELLS IN NEUROIMMUNOLOGY**Chairs: **B. Segal, J. Bancherau**

13.15-13.45	Harnessing dendritic cells for better human health	Jacques Bancherau
13.45-14.15	Antigen presenting cells and T cell polarization: guilty by association	Burchard Becher
14.15-14.45	Migration and cell-cell interactions in the immune system and brain	Mathias Gunzer
14.45-15.15	Cytokine networks that regulate myeloid cell trafficking and differentiation in CNS autoimmunity	Benjamin Segal

ROOM B**13.15-15.15 CONCURRENT SYMPOSIUM: B-CELLS IN NEUROIMMUNOLOGIC DISEASE**Chairs: **F. Aloisi, A. Bar-Or**

13.15-13.45	Antibodies and B-cells in CNS inflammation	Bernard Hemmer
13.45-14.15	B cells subsets as targets in MS	Amit Bar-Or
14.15-14.45	The brain as a reservoir of Epstein-Barr virus-infected B cells in multiple sclerosis	Francesca Aloisi
14.45-15.15	B-cell depletion as an add-on therapy relapsing MS	Anne Cross

ROOM C

13.15-15.15

CONCURRENT SYMPOSIUM: GENETICS OF CNS DISEASES

Chairs: **J. Oksenberg, W. Wakeland**

13.15-13.45	Genetic interactions that drive autoimmunity	Edward Wakeland
13.45-14.15	Mapping genetic susceptibility and modeling pathogenesis in multiple sclerosis	Jorge Oksenberg
14.15-14.45	Genomic disorders: Mechanisms and clinical implementation of high resolution genome analysis	James Lupski
14.45-15.15	Duplication of Lamin B1 leads to a demyelinating disorder	Ying-Hui Fu

ROOM E

13.15-15.15

CONCURRENT SYMPOSIUM: SIGNAL TRANSDUCTION IN NEUROIMMUNOLOGY

Chairs: **W. Royal, H. Cheroutre**

13.15-13.45	The role for T-box proteins in the induction of epigenetic states	Amy Weinmann
13.45-14.15	Role of T-bet in regulating autoimmune Th1 and Th17 cells	Amy Lovett Racke
14.15-14.45	Gut feelings in Immunology	Hilde Cheroutre
14.45-15.15	Vitamin D and retinoid effects on immune function in multiple sclerosis	Walter Royal
15.15-15.45	COFFEE BREAK	

ROOM A

15.45-17.15

WORKSHOP: PATHOGENESIS OF NEUROIMMUNOLOGIC DISEASE

Chairs: **R. Gold**

1 - MCAM/CD146 IS AN ADHESION MOLECULE INVOLVED IN LYMPHOCYTE MIGRATION TO THE CENTRAL NERVOUS SYSTEM -

Romain Cayrol^[1], Hania Kebir^[1], Igal Ifergan^[1], Aurore Dodelet-Devillers^[1], Simone Terouz^[1], Arsalan Haqqani^[3], Josee Poirier^[4], Danica Stanimirovic^[3], Pierre Duquette^[4], Nathalie Arbour^[1], Alexandre Prat^[1] –

^[1]Universite of Montreal ~ Montreal ~ Canada - ^[3]Institute for Biological Sciences ~ Ottawa ~ Canada - ^[4]Multiple Sclerosis Clinic CHUM ~ Montreal ~ Canada

2 - CONTACTIN-2/TAG-1 DIRECTED AUTOIMMUNITY IS IDENTIFIED IN MS PATIENTS AND MEDIATES GRAY MATTER PATHOLOGY IN EAE -

Derfuss Tobias^[1], Parikh H^[2], Velhin Slava^[1], Braun Magdalena^[1], Krumbholz Markus^[1], Kümpfel Tanja^[3], Moldenhauer Anja^[4], Kunz Beat^[5], Pöllmann Walter^[6], Tiefentroumer Christian^[7], Bauer Jan^[7], Lassmann Hans^[7], Wekerle Hartmut^[1], Karagogeos Domna^[8], Hohlfeld Reinhard^[1], Lington Chris^[9], Meinl Edgar^[1]

^[1]Max-Planck Institute of Neurobiology, Dep. Neuroimmunology ~ Martinsried ~ Germany - ^[2]University of Aberdeen ~ Aberdeen ~ United Kingdom - ^[3]Institute of Clinical Neuroimmunology ~ Munich ~ Germany - ^[4]Institute of Transfusion Medicine ~ Berlin ~ Germany - ^[5]Institute of Biochemistry, University of Zurich ~ Zurich ~ Switzerland - ^[6]Marianne-Strauß Klinik ~ Berg ~ Germany - ^[7]Brain Research Institute ~ Vienna ~ Austria - ^[8]University of Crete ~ Crete ~ Greece - ^[9]University of Glasgow ~ Glasgow ~ United Kingdom

3 - CONFOCAL LIVE IMAGING REVEALS DIRECT TRANSECTION OF MYELINATED AXONS BY ANTIGEN-SPECIFIC CD8 T CELLS -

Sobottka Bettina^[1], Ziegler Urs^[2], Harrer Melanie^[1], Goebels Norbert^[1]

^[1]University of Zurich ~ Zurich ~ Switzerland - ^[2]Center for Microscopy and Image Analysis ~ Zurich ~ Switzerland

4 - EARLY LIFE IMMUNE PERTURBATION IS PROTECTIVE IN EXPERIMENTAL AUTOIMMUNE ENCEPHALOMYELITIS: INNATE IMMUNITY DETERMINES DISEASE ONSET AND SEVERITY -

Ellestad Kristofor^[1], Tsutsui Shigeki^[2], Noorbakhsh Farshid^[1], Pittman Quentin^[2], Power Christopher^[1]

^[1]University of Alberta ~ Edmonton ~ Canada - ^[2]University of Calgary ~ Calgary ~ Canada

5 - THE DISTINCT LINEAGE: DOUBLE NEGATIVE T CELLS EXPRESSING IL-17 IN MULTIPLE SCLEROSIS -*Kawachi Izumi*^[1], Arakawa Musashi^[1], Yanagawa Kaori^[1], Nishizawa Masatoyo^[1]*^[1]Department of Neurology, Brain Research Institute, Niigata University ~ Niigata ~ Japan**6 - RELEVANCE OF HUMAN TH17 CELLS IN MULTIPLE SCLEROSIS -***Brucklacher-Waldert Verena*^[2], Stuermer Klarissa^[1], Wolthausen Julia^[3], Heesen Christoph^[1], Martin Roland^[1], Tolosa Eva^[1]*^[1]Institute for Neuroimmunology and Clinical Multiple Sclerosis Research ~ Hamburg ~ Germany - ^[2]Institute for Neuroimmunology and Clinical Multiple Sclerosis Research ~ Hamburg ~ Germany - ^[3]Department of Neurology, University Medical Center ~ Hamburg ~ Germany**ROOM B**

15.45-17.15

WORKSHOP: B CELLS IN NEUROIMMUNOLOGYChairs: **A. Vincent****1 - SPONTANEOUS RECRUITMENT OF AUTOIMMUNE B CELLS IN TCR TRANSGENIC MICE THAT DEVELOP SPONTANEOUS RELAPSING REMITTING EAE -***Pöllinger Bernadette^[1], Berer Kerstin^[1], Krishnamoorthy Gurumoorthy^[1], Lassmann Hans^[2], Bösl Michael^[1], Domingues Helena Sofia^[1], Holz Andreas^[1], Kurschus Florian Carlos*^[1], Wekerle Hartmut^[1]*^[1]Max-Planck-Institute of Neurobiology ~ Martinsried ~ Germany - ^[2]Center for Brain Research, Medical University of Vienna ~ Vienna ~ Austria**2 - AN EXPERIMENTAL MOUSE MODEL OF MUSK ANTIBODY POSITIVE MYASTHENIA GRAVIS -***Viegas Stuart*^[1], Waters Patrick^[1], Jacobsen Leslie^[1], Vincent Angela^[1]*^[1]Neuroscience Group, University of Oxford ~ Oxford ~ United Kingdom**3 - ANTI-CD20 B CELL DEPLETION IN IMMUNE INTERVENTION OF CENTRAL NERVOUS SYSTEM AUTOIMMUNE DISEASE -***Weber Martin*^[1], Prod'homme Thomas^[1], Karnezis Tara^[2], Patarroyo Juan^[1], Rundle Cynthia^[1], Danilenko Dimitry^[3], Slavin Anthony^[1], Lington Christopher^[4], Bernard Claude^[2], Martin Flavius^[3], Zamvil Scott^[1]*^[1]University of California ~ San Francisco ~ United States - ^[2]Monash University ~ Melbourne ~ Australia - ^[3]Genentech ~ South San Francisco ~ United States - ^[4]University of Aberdeen ~ Aberdeen ~ United Kingdom**4 - AUTOANTIBODY PROFILING IN MULTIPLE SCLEROSIS: FURTHER CHARACTERIZATION OF NOVEL ANTIGENIC CANDIDATES -***Somers Veerle*^[7], Somers Klaartje^[8], Govarts Cindy^[10], Hupperts Raymond^[11], Medaer Rob^[12], Stinissen Piet^[13]*^[7]Veerle Somers ~ Hasselt University, Biomedical Research Institute and Transnationale Universiteit Limburg, School of Life Sciences ~ Belgium - ^[8]Klaartje Somers ~ Hasselt University, Biomedical Research Institute and Transnationale Universiteit Limburg, School of Life Sciences ~ Belgium - ^[10]Cindy Govarts ~ Hasselt University, Biomedical Research Institute and Transnationale Universiteit Limburg, School of Life Sciences ~ Belgium - ^[11]Raymond Hupperts ~ Academic Hospital Maastricht ~ Netherlands - ^[12]Rob Medaer ~ Hasselt University, Biomedical Research Institute and Transnationale Universiteit Limburg, School of Life Sciences ~ Belgium - ^[13]Piet Stinissen ~ Hasselt University, Biomedical Research Institute and Transnationale Universiteit Limburg, School of Life Sciences ~ Belgium**5 - IDENTIFICATION OF THE MOLECULAR TARGETS OF OLIGOCLONAL BANDS IGG IN CEREBRO-SPINAL FLUID OF MULTIPLE SCLEROSIS PATIENTS BY PROTEOMIC APPROACH -***Bonetti Bruno*^[1], Lovato Laura^[1], Cianti Riccardo^[2], Gini Beatrice^[1], Bini Luca^[2]*^[1]Department of Neurological Sciences and Vision, University of Verona ~ Verona ~ Italy - ^[2]Department of Molecular Biology, University of Siena ~ Siena ~ Italy**6 - IGG SYNTHESIS WITHIN MULTIPLE SCLEROSIS LESIONS CORRELATES WITH LOCAL BAFF PRODUCTION -***Krumbholz Markus^[1], Mohan Hema^[3], Junker Andreas^[1], Newcombe Jia^[4], Lassmann Hans^[5], Wekerle Hartmut^[3], Hohlfeld Reinhard^[1], Meinl Edgar*^[1]*^[1]Institute of Clinical Neuroimmunology ~ Munich ~ Germany - ^[3]Max Planck Institute of Neurobiology ~ Martinsried ~ Germany - ^[4]NeuroResource, Institute of Neurology ~ London ~ United Kingdom - ^[5]Center for Brain Research ~ Vienna ~ Austria