



**Under the Auspices of the
International Society of Neuroimmunology**

Scientific Program

**9th International Congress
of Neuroimmunology**

Fort Worth, Texas

October, 26th - 30th 2008



Welcome

Dear Participant,

On behalf of the International Society of Neuroimmunology (ISNI), and the Local Organizing Committee, we have the pleasure to welcome you to the 9th International Congress of Neuroimmunology.

A quarter of a century has passed since the first ISNI Congress, which has grown from 150 participants to over 1000 in the most recent meetings. The field has rapidly grown to include a number of disciplines, including basic immunology and neurobiology, neuropathology, neuroendocrinology, and many others.

The Organizing Committee, on behalf of ISNI, has worked diligently to ensure the success of this Congress, the first in the USA in 20 years. The Dallas/Fort Worth metroplex is easily accessible from major cities around the world. The newly opened Fort Worth Convention Center is an excellent venue for the Congress. Fort Worth offers an opportunity to experience the American West. As Will Rogers put it: "It's where the West begins."

The Scientific Advisory Committee has assembled a scientific program consisting of plenary lectures, highly focused symposia and workshops reflecting the state of the art in all branches of Neuroimmunology. Considerable time and space will also be devoted to poster presentations. Special efforts have been made to recruit younger scientists to this Congress.

We look forward to your active and enthusiastic participation in the Congress!

Michael K. Racke

Caroline C. Whitacre

Co-chairmen of the Local Organizing Committee

TABLE OF CONTENTS

Committees	2
Acknowledgements	3
Invited Speakers	4
Sunday, October 26, 8 th ESNI Course	6
Monday, October 27, 9 th ISNI Congress.....	7
Tuesday, October 28.....	20
Wednesday, October 29.....	32
Thursday, October 30.....	48
CME	50
Disclosure Statement.....	52
Social Dinner	59
General Information.....	60



COMMITTEES

INTERNATIONAL ADVISORY BOARD

ISNI EXECUTIVE

President

Hartmut Wekerle (Martinsried, Germany)

Vice-President

Caroline Whitacre (Columbus, OH, USA)

Secretary/Treasurer

Trevor Owens (Odense, Denmark)

International Advisory Board

F. Aloisi	(Roma, Italy)
B. Becher	(Zurich, Switzerland)
A. Coles	(Cambridge, UK)
R. Gold	(Bochum, Germany)
D. Hafler	(Boston, MA, USA)
W. Hickey	(Dartmouth, MA, USA)
R. Hintzen	(Rotterdam, The Netherlands)
V. Kuchroo	(Boston, MA, USA)
R. Martin	(Hamburg, Germany)
G. Martino	(Milano, Italy)
Y. Matsumoto	(Tokyo, Japan)
S. Miller	(Chicago, IL, USA)
T. Olsson	(Stockholm, Sweden)
H. Perry	(Southampton, UK)
L. Probert	(Athens, Greece)
M. Schwartz	(Rehovot, Israel)
L. Steinman	(Stanford, CA, USA)
P. Villoslada	(Pamplona, Spain)
T. Yamamura	(Tokyo, Japan)
W. Yong	(Calgary, Canada)

Honorary Officers

J. Antel	(Montreal, Canada)
C. Raine	(New York, NY, USA)
A. Vincent	(Oxford, UK)

SCIENTIFIC ORGANIZING COMMITTEE

Co-chairmen of the Local Organizing Committee:

M. Racke (Columbus, OH)
C. Whitacre (Columbus, OH)

E. Frohman (Dallas, TX)
N. Karandikar (Dallas, TX)
N. Monson (Dallas, TX)
V. Sanders (Columbus, OH)

Organizing Secretariat

 **EEM** International Congress Services srl
Via E. L. Cerva 167 - 00143 Roma (Italy)
Phone +39 06 5193499 - Fax +39 06 5194009
isni@isni2008.org - eem@eemservices.com

ACKNOWLEDGEMENTS

The 9th International Congress of Neuroimmunology
has been supported in part by a grant from the following companies:



Genentech/Biogen Idec



The 9th International Congress of Neuroimmunology
has been supported in part by the following exhibitors:



The 9th International Congress of Neuroimmunology
has been supported in part
by a grant from the following organizations/agencies:





INVITED SPEAKERS

Agosta	Federica	Scientific Institute and University San Raffaele	Milan (ITALY)
Aloisi	Francesca	Istituto Superiore di Sanita	Rome, (ITALY)
Appel	Stan	Methodist Neurological Institute	Houston, TX (USA)
Baecher-Allen	Clare	Harvard University	Boston, MA (USA)
Bancherau	Jacques	Baylor University	Dallas, TX (USA)
Bar-Or	Amit	Montreal Neurological Institute & Hospital	Montreal, Quebec (CANADA)
Becher	Burkhard	University of Zurich	Zurich, (SWITZERLAND)
Bruce-Keller	Anna	Louisiana State University	Baton Rouge, LA (USA)
Carson	Monica	University of California	Riverside, CA (USA)
Caspi	Rachel	National Eye Institute, NIH	Bethesda, MD USA
Castro	Maria	University of California	Los Angeles, CA (USA)
Cheroutre	Hilde	University of California	San Diego, CA (USA)
Chiocca	Nino	The Ohio State University	Columbus, OH (USA)
Christadoss	Premkumar	University of Texas Medical Branch	Galveston, TX (USA)
Cross	Ann	Washington University	St. Louis, MO (USA)
Cunningham	Madeline	University of Oklahoma	Oklahoma City, OK (USA)
Dalmau	Josep	University of Pennsylvania	Philadelphia, PA (USA)
Diamond	Betty	Columbia University	New York, NY (USA)
Drew	Paul	University of Arkansas	Little Rock, AR (USA)
Fluegel	Alexander	Max Planck Institute of Neurobiology	Martinsried (GERMANY)
Forsthuber	Thomas	University of Texas	San Antonio, TX (USA)
Franklin	Robin	University of Cambridge	Cambridge (U.K.)
Frei	Karl	University Hospital,	Zurich (SWITZERLAND)
Fu	Ying-Hui	University of California	San Francisco, CA (USA)
Fujinami	Robert	University of Utah	Salt Lake City, UT (USA)
Furlan	Roberto	San Raffaele Scientific Institute	Milan (ITALY)
Goverman	Joan	University of Washington	Seattle, WA (USA)
Grandi	Paola	University of Pittsburgh	Pittsburgh, PA (USA)
Gunzer	Matthias	University of Magdenburg	Magdenburg, (GERMANY)
Hauser	Stephen	University of California	San Francisco, CA (USA)
Hemmer	Bernard	Heinrich Heine-University	Munchen (GERMANY)
Heneka	Michael	University of Bonn	Bonn, (GERMANY)
Jagodic	Maja	Karolinska Institute	Stockholm (SWEDEN)
Karandikar	Nitin	University of Texas Southwestern	Dallas, TX (USA)
Karpus	William	Northwestern University	Chicago, IL (USA)
Kerr	Douglas	Johns Hopkins University	Baltimore, MD (USA)
Khoury	Samia J.	Harvard University	Boston, MA (USA)
Kielian	Tammy	University of Nebraska	Omaha, NE (USA)
Kieseier	Bernd	Heinrich Heine University	Dusserldorf (GERMANY)
Kipnis	Jonathan	University of Virginia	Charlottesville, VA (USA)
Kraig	Ellen	University of Texas	San Antonio, TX (USA)
Kuchroo	Vijay	Harvard University	Boston, MA (USA)
Kusunoki	Susumu	Kinki University School of Medicine	Osaka (JAPAN)
Landreth	Gary	Case Western Reserve	Cleveland, OH (USA)
Linnington	Christopher	University of Glasgow	Glasgow (U.K.)

INVITED SPEAKERS

Littman	Dan	New York University	New York, NY (USA)
Lovett-Racke	Amy	The Ohio State University	Columbus, OH (USA)
Lowenstein	Pedro	University of California	Los Angeles, CA (USA)
Lupski	James	Baylor University	Houston, TX (USA)
Martin	Roland	University of Hamburg	Hamburg, (GERMANY)
Martino	Gianvito	University Vita-Salute	San Raffaele, Milan (ITALY)
McTigue	Dana	The Ohio State University	Columbus, OH (USA)
Nash	Richard	University of Washington	Seattle, WA (USA)
Nath	Avindra	Johns Hopkins University	Baltimore, MD (USA)
Nelson	J. Lee	University of Washington	Seattle, WA (USA)
Offner	Halina	Oregon Health Sciences University	Portland, OR (USA)
Oksenberg	Jorge	University of California	San Francisco, CA (USA)
Perry	Hugh	University of Southampton	Southampton (UK)
Popovich	Phil	The Ohio State University	Columbus, OH (USA)
Racke	Michael	Congress Organizer - The Ohio State University	Columbus, OH (USA)
Ragheb	Samia	Wayne State University	Detroit, MI (USA)
Rivest	Serge	Laval University	Quebec City (CANADA)
Royal, III	Walter	University of Maryland School of Medicine	Baltimore, MD (USA)
Segal	Benjamin M.	University of Michigan	Ann Arbor, MI (USA)
Sharpe	Arlene	Harvard University	Boston, MA (USA)
Sheikh	Kazim	University of Texas	Houston, TX (USA)
Shepherd	Claire	Prince of Wales Medical Institute	Sydney (AUSTRALIA)
Shigemoto	Kazuhiro	Tokyo Metropolitan Institute of Gerontology	Tokio (JAPAN)
Steinman	Larry	Stanford University	Stanford, CA (USA)
Strittmatter	Stephen M.	Yale University	New Haven, CT (USA)
Suzumura	Akio	Nagoya University	Nagoya (JAPAN)
Van Noort	Hans	Netherlands Organisation for Applied Scientific Research	Leiden (NETHERLANDS)
Vartanian	Tim	Harvard University	Boston, MA (USA)
Vernino	Steve	University of Texas Southwestern	Dallas, TX (USA)
Vincent	Angela	University of Oxford	Oxford (UK)
Von Herrath	Matthias	La Jolla Institute for Allergy and Immunology	La Jolla, CA (USA)
Voskuhl	Rhonda	University of California	Los Angeles, CA (USA)
Wakeland	Ward	University of Texas Southwestern	Dallas, TX (USA)
Weinmann	Amy	University of Washington	Seattle, WA (USA)
Weiss	Susan	University of Pennsylvania	Philadelphia, PA (USA)
Wekerle	Hartmut	Max Planck Institute of Neurobiology	Martinsried (GERMANY)
Whitacre	Caroline	Congress Co- Organizer - The Ohio State University	Columbus, OH (USA)
Willison	Hugh	University of Glasgow	Glasgow (SCOTLAND)
Windrem	Martha	University of Rochester	Rochester, NY (USA)
Wolfe	Gil	University of Texas Southwestern	Dalls, TX (USA)
Wolinsky	Jerry	University of Texas	Houston, TX (USA)
Wuelfing	Christoph	University of Texas Southwestern	Dallas, TX (USA)
Wyss-Coray	Tony	Stanford University	Stanford, CA (USA)
Yamamura	Takashi	National Institute of Neuroscience	Tokyo (JAPAN)
Ziegler	Steven	Benaroya Research Institute at Virginia Mason	Seattle, WA (USA)



SUNDAY, OCTOBER 26

7.30-9.00 **ESNI COURSE REGISTRATION**

8th Course of the European School of Neuroimmunology

MORNING

ROOM B

FROM BASIC TO CLINICAL NEUROIMMUNOLOGY: AN INTRODUCTORY COURSE

Chairs: **G. Martino, H. Willison**

BASIC NEUROIMMUNOLOGY

09.00-09.45	Microglia at the interface between the immune and the nervous system	<i>Serge Rivest</i>
09.45-10.30	Regulatory and effector T cells in the central nervous system	<i>Roberto Furlan</i>
10.30-11.00	COFFEE BREAK	
11.00-11.45	Ion homeostasis and neuro degeneration	<i>Christopher Linington</i>
11.45-12.30	Genetics of neuroinflammation	<i>Maja Jagodic</i>
12.30-14.30	LUNCH	

AFTERNOON

CLINICAL NEUROIMMUNOLOGY

14.30-15.15	Neuromuscular disorders: From basic mechanisms to treatment	<i>Angela Vincent</i>
15.15-16.00	Autoimmunity in demyelination and axonal damage	<i>Roland Martin</i>
16.00-16.30	COFFEE BREAK	
16.30-17.15	Inflammation in neurodegenerative disorders	<i>Hugh Perry</i>
17.15-18.00	The role of immunity in peripheral nerve regeneration	<i>Kazim Sheikh</i>
18.00-19.00	WELCOME RECEPTION	

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 Montreal ~ Montreal ~ 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], Mellergard Johan^[2], Mjosberg Jenny^[1], Press Rayomand^[3], Vrethem Magnus^[2], Ernerudh Jan^[1]

^[1]Department of Clinical and Experimental Medicine ~ Link ping ~ Sweden - ^[2]Department of Neurology ~ Link ping ~ 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. Ra I 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]Karolinska 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 - ^[5]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 Hallamshire 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]ZhenjieLu ~ 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], Moidola 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 ENGULFMENT 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



ROOM C

15.45-17.15

WORKSHOP: PARANEOPLASTIC DISORDERS AND STEM CELLS

Chairs: **N. Monson**

1 - LAMBERT EATON MYASTHENIC SYNDROME AND SURVIVAL IN PATIENTS WITH SMALL CELL LUNG CARCINOMA -

Lang Bethan^{*[1]}, Maddison Paul^[2], Vincent Angela^[1]

^[1]University of Oxford ~ Oxford ~ United Kingdom - ^[2]Queen's Medical Centre, Nottingham ~ Nottingham ~ United Kingdom

2 - SOX-1 ANTIBODIES IN SCREENING FOR PARANEOPLASTIC LAMBERT-EATON MYASTHENIC SYNDROME -

Titulaer Maarten^{*[1]}, Klooster Rinse^[1], Potman Marko^[1], Sabater Lidia^[2], Graus Francesc^[2], Hegeman Ingrid^[1], Wirtz Paul^[3], Sillevs Smitt Peter^[4], van der Maarel Sylvere^[1], Verschuuren Jan^[1]

^[1]Leiden University Medical Center ~ Leiden ~ Netherlands - ^[2]Hospital Clinic ~ Barcelona ~ Spain - ^[3]HaGa Hospital ~ the Hague ~ Netherlands - ^[4]Erasmus Medical Center ~ Rotterdam ~ Netherlands

3 - TUMOR LOCATION DEFINES THE EFFICIENCY OF THE ANTI-TUMOR RESPONSE -

Biollaz Gregoire^[1], Bernasconi Luca^[1], Cretton Christine^[1], Püntener Ursula^[1], Frei Karl^[1], Fontana Adriano^[1], Suter Tobias^{*[1]}

^[1]University Hospital Zurich ~ Zurich ~ Switzerland

4 - PREVENTIVE AND THERAPEUTIC BENEFICIAL EFFECT OF ADIPOSE-DERIVED MESENCHYMAL STEM CELLS IN CHRONIC EXPERIMENTAL AUTOIMMUNE ENCEPHALOMYELITIS -

Bonetti Bruno^{*[1]}, Marconi Silvia^[1], Rossi Barbara^[2], Angiari Stefano^[2], Gini Beatrice^[1], Anghileri Elena^[1], Bach Simone Dorothea^[2], Martinello Marianna^[2], Krampera Mauro^[3], Constantin Gabriela^[2]

^[1]Department of Neurological Sciences and Vision, University of Verona ~ Verona ~ Italy - ^[2]Department of Pathology, University of Verona ~ Verona ~ Italy - ^[3]Department of Clinical and Experimental Medicine, University of Verona ~ Verona ~ Italy

5 - SYSTEMIC ADMINISTRATION OF THERAPEUTIC MESENCHYMAL STEM CELLS INDUCES EXPANSION OF FOXP3 POSITIVE T REGULATORY CELLS IN THE CENTRAL NERVOUS SYSTEM OF EAE AFFECTED MICE -

Morando Sara^{*[1]}, Esposito Marianna^[2], Chiesa Sabrina^[1], Principato Maria Cristina^[1], Furlan Roberto^[2], Uccelli Antonio^[1]

^[1]Department of Neurosciences, Ophthalmology and Genetics-University of Genoa ~ Genoa ~ Italy - ^[2]Neuroimmunology Unit, San Raffaele Hospital ~ Milan ~ Italy

6 - MESENCHYMAL STEM CELLS AS TREATMENT FOR MULTIPLE SCLEROSIS: IMMUNOMODULATION VERSUS NEUROPROTECTION -

Principato Maria Cristina^{*[1]}, Giunti Debora^[1], Morando Sara^[1], Uccelli Antonio^[1]

^[1]Department of Neurosciences, Ophthalmology and Genetics, University of Genoa ~ Genoa ~ Italy

ROOM D

15.45-17.15

WORKSHOP: NEURO-IMMUNE GENETICS AND DISORDERS OF THE PERIPHERAL NERVOUS SYSTEM

Chairs: **C. Teuscher**

1 - CAMPYLOBACTER JEJUNI SPECIFIC CDI RESTRICTED T CELLS CROSS-REACT TO GMI GANGLIOSIDE IN PATIENTS WITH GUILLAIN-BARRÉ SYNDROME -

Cencioni Maria Teresa^{*[1]}, Notturmo Francesca^[2], Caporale Maria Christina^[3], Battistini Luca^[4], Uncini Antonio^[5]

^[1]Santa Lucia foundation ~ Rome ~ Italy - ^[2]Foundation University "G. d'Annunzio ~ Chieti-Pescara ~ Italy - ^[3]Foundation University "G. d'Annunzio ~ Chieti-Pescara ~ Italy - ^[4]Santa Lucia Foundation ~ Rome ~ Italy - ^[5]Foundation University "G. d'Annunzio ~ Rome ~ Italy

2 - GUILLAIN-BARRÉ-ASSOCIATED CAMPYLOBACTER JEJUNI ACTIVATES DENDRITIC CELLS TO PRODUCE SOLUBLE FACTORS THAT INDUCE B-CELL PROLIFERATION -

Kuijff Mark^[1], Huizinga Ruth^{*[1]}, Samsom Janneke^[1], Van Rijs Wouter^[1], Heikema Astrid^[1], Van Doorn Pieter^[1], Endtz Hubert^[1], Nieuwenhuis Edward^[1], Jacobs Bart^[1]

^[1]Erasmus MC, University Medical Center ~ Rotterdam ~ Netherlands

3- RANDOMIZED CONTROLLED TRIAL OF NERVE GROWTH FACTOR TO PERIPHERAL NERVE IN GUILLAIN-BARRÉ SYNDROME -*Jia Yanjie^[3], Liu Hongbo^[3], Zhou Yan^[3], Zhang Boai^[3], Wen Quanqing^[3], Xie Peng^[4], Dong Weiwei^[4]*^[3]The First Affiliated Hospital, Zhengzhou University ~ Zhengzhou ~ China - ^[4]The First Affiliated Hospital, Chongqing Medical University ~ Chongqing ~ China**4 - COMPARISON OF SERUM DNA OF HEALTHY HUMANS TO PATIENTS WITH ACUTE MULTIPLE SCLEROSIS -***Urnovitz Howard B^[1], Beck Julia^[1], Saresella Marina^[2], Caputo Domenico^[2], Clerici Mario^[3], Schütz Ekkehard^[1]*^[1]Chronix Biomedical GmbH ~ Goettingen ~ Germany - ^[2]Fondazione don C.Gnocchi IRCCS-ONLUS ~ Milano ~ Italy - ^[3]Fondazione don C.Gnocchi IRCCS ONLUS- University of Milano ~ Milano ~ Italy**5 - GENETIC VARIATION IN IFN SIGNALING IS ASSOCIATED WITH RESPONSIVENESS TO IFN- β IN MULTIPLE SCLEROSIS -***Vosslander Saskia^[1], van der Voort Laura^[1], van Baarsen Lisa^[1], Heijmans Roel^[1], Crusius Bart^[1], Killestein Joep^[1], Polman Chris^[1], Verweij Cor^[1]*^[1]VU University Medical Center ~ Amsterdam ~ Netherlands**6 - GENETIC AND ENVIRONMENTAL FACTORS COMPLEMENT EAE SUSCEPTIBILITY IN TYK2 MUTANT B10.DI-H2Q/SGJ (B10.DI-TYK2) MICE -***Spach Karen^[1], Noubade Rajkumar^[1], Blankenhorn Elizabeth^[2], Teuscher Cory^[1]*^[1]University of Vermont ~ Burlington, VT ~ United States - ^[2]Drexel University ~ Philadelphia, PA ~ United States**ROOM E**

15.45-17.15

WORKSHOP: CHEMOKINESChairs: **D. Carr****1 - CXCR6 IS REQUIRED FOR T CELL RECRUITMENT INTO INJURED GRAY MATTER IN THE CONTEXT OF EXPERIMENTAL AUTOIMMUNE ENCEPHALOMYELITIS -***Kim Jiyun^[1], Tadokoro Carlos^[1], Shen Shiqian^[1], Ning Jiang^[2], Lafaille Juan^[1], Dustin Michael^[1]*^[1]Skirball Institute-NYU School of Medicine ~ New York ~ United States - ^[2]Stanford University ~ Stanford ~ United States**2 - EXPRESSION OF CXCR4 AND CXCR5 CHEMOKINE RECEPTORS BY ADULT NEURAL STEM CELLS AND THEIR LIGANDS (CXCL12; CXCL13) IN EAE -***Zilkha-Falb Rina Ilona^[1], Oved Joseph Hai^[1], Kaushansky Nathali^[1], Ben-Nun Avraham^[1]*^[1]Weizmann Institute of Science ~ Rehovot ~ Israel**3 - ABERRANT CXCR3 SIGNALING DUE TO CXCL10 DEFICIENCY IMPAIRS THE ANTI-VIRAL RESPONSE TO HERPES SIMPLEX VIRUS TYPE 1 -***Carr Dan^[1], Wuest Todd^[1]*^[1]The University of Oklahoma Health Sciences Center ~ Oklahoma City ~ United States**4 - ANTIGEN PRESENTATION AND CYTOKINE PRODUCTION IN LEUKOCYTE MIGRATION ACROSS THE NEUROVASCULAR UNIT IN CCL2 TRANSGENIC MICE -***Toft-Hansen Henrik^[1], Løbner Morten^[1], Owens Trevor^[1]*^[1]University of Southern Denmark ~ Odense ~ Denmark**5 - GDT CELL-DERIVED IL-1 β ALTERS THE PATTERN OF EXPRESSION OF CXCL12 AT THE BLOOD-BRAIN BARRIER (BBB) DURING CNS AUTOIMMUNITY -***McCandless Erin^[1], Less Jason^[1], Dorsey Denise^[1], Klein Robyn Klein^[1]*^[1]Washington University School of Medicine ~ St. Louis ~ United States**BALLROOM**

17.30-19.00

POSTER VIEWING

TUESDAY, OCTOBER 28

MORNING

ROOM A

PLENARY SESSION: **ADVANCES IN IMAGING**

Chairs: **J. Wolinsky, A. Fluegel**

08.30-09.10	MRI's role in the modern diagnosis and management of MS	Jerry Wolinsky
09.10-09.50	Dynamic spatiotemporal patterning in the immunological synapse as a regulator of T cell activation	Christoph Wuelfing
09.50-10.20	COFFEE BREAK	
10.20-11.00	Immune surveillance and autoimmunity: how encephalitogenic T cells enter their target organ	Alexander Fluegel
11.00-11.40	How MR-based technology is changing our views on the pathophysiology of multiple sclerosis	Federica Agosta
12.00-13.00	LUNCH SYMPOSIUM- IMMUNO THERAPY: Is there a Role for Hematopoietic Stem Cell transplantation in autoimmune neurological disease	Richard Nash

BALLROOM

11.40-13.15 **POSTERS & LUNCH**

POSTER SESSION: **IMMUNE DISORDERS OF THE PERIPHERAL NERVOUS SYSTEM**

1 - C5-COMPLEMENT INHIBITORS PREVENT ANTI-GANGLIOSIDE ANTIBODY-MEDIATED MOTOR NERVE TERMINAL DAMAGE IN MURINE MFS -

Zitman Femke^{*[1]}, Halstead Sue^[2], Humphreys Peter^[2], Greenshields Kay^[2], Verschuuren Jan^[3], Jacobs Bart^[4], Rother Russel^[5], Hamer John^[6], Willison Hugh^[2], Plomp Jaap^[1]

- ^[1]Departments of Neurology and molecular cell biology - group neurophysiology ~ Leiden University Medical Centre, Leiden ~ Netherlands - ^[2]Division of clinical neurosciences ~ Glasgow Biomedical Research centre, Glasgow ~ United Kingdom - ^[3]Department of neurology ~ Leiden University Medical Centre, Leiden ~ Netherlands - ^[4]Department of neurology and immunology ~ Erasmus MC, Rotterdam ~ Netherlands - ^[5]Alexion Pharmaceuticals ~ Cheshire ~ United States - ^[6]Varleigh Jersey Ltd ~ Jersey ~ United Kingdom

2 - MODELLING AUTOIMMUNE NARCOLEPSY IN HUMANISED MICE -

Haris Alexopoulos^{*}, Lise T. Jensen[†], Rob Deacon^{**}, Camilla Buckley^{*}, John Elliott[#], Lars Fugger^{*} and Angela Vincent^{*}

^{*} Department of Clinical Neurology, Weatherall Institute of Molecular Medicine, University of Oxford, UK - [†] Clinical Institute, Aarhus University Hospital, Denmark - ^{**} Department of Experimental Psychology, University of Oxford, UK - [#] Department of Medicine, University of Alberta, Canada

3 - CD4 T CELLS MEDIATE AXONAL DAMAGE AND SPINAL CORD MOTOR NEURON APOPTOSIS IN MURINE P0106-125-INDUCED EXPERIMENTAL AUTOIMMUNE NEURITIS -

Brunn Anna^{*[4]}, Utermöhlen Olaf^[5], Carstov Mariana^[4], Sánchez Ruiz Monica^[4], Miletic Hrvoje^[4], Schlüter Dirk^[3], Deckert Martina^[4]

^[3]Medical Microbiology Otto-von-Guericke University of Magdeburg ~ Magdeburg ~ Germany - ^[4]Neuropathology University of Cologne ~ Köln ~ Germany - ^[5]Microbiology and Immunology University of Cologne ~ Köln ~ Germany

4 - ATORVASTATIN INHIBITS EXPERIMENTAL AUTOIMMUNE NEURITIS THROUGH DOWN-REGULATION OF INTRANEURAL TH1 AND TH17 CYTOKINES -

Kiyozuka Tetsuhito^{*[1]}, Fujioka Toshiki^[1], Kudeken Tsukasa^[1]

^[1]Toho University ~ Tokyo ~ Japan

5 - DO ANTI-GMI AND GDIA ANTIBODIES AFFECT NEUROMUSCULAR TRANSMISSION IN HUMAN LIMB MUSCLE? -

Sawai Setsu^{*[1]}, Kokubun Norito^[2], Misawa Sonoko^[1], Mori Masahiro^[1], Kanai Kazuaki^[1], Yuki Nobuhiro^[2], Kuwabara Satoshi^[1]

^[1]Chiba University ~ Chiba ~ Japan - ^[2]Dokkyo Medical University ~ Tochigi ~ Japan

6 - CIRCULATING T-BET+CD8+ T CELLS ARE INCREASED IN FACIOSCAPULOHUMERAL MUSCULAR DYSTROPHY PATIENTS AND CORRELATE WITH T2 LESIONS AT MUSCLE MRI -

Frisullo Giovanni^[1], Nociti Viviana^[1], Frusciante Roberto^[1], Tasca Giorgio^[1], Iannaccone Elisabetta^[1], Iorio Raffaele^[1], Patanella Agata Katia^[1], Marti Alessandro^[1], Mirabella Massimiliano^[1], Tonali Pietro Attilio^[1], Batocchi Anna Paola^{*[1]}

^[1]Policlinico A Gemelli ~ Roma ~ Italy

7 - ELEVATED DETECTION OF IL-17 IN THE THYMUS OF MYASTHENIA GRAVIS -

Matsui Naoko^{*[1]}, Nakane Shunya^[1], Mitsui Takao^[1], Kondo Kazuya^[1], Takahama Yousuke^[2], Kaji Ryuji^[1]

^[1]Institute of Health Bioscience, Tokushima University Graduate School of Medicine ~ Tokushima ~ Japan - ^[2]Institute for Genome Research, University of Tokushima ~ Tokushima ~ Japan

8 - ANTI-AQUAPORIN 4 ANTIBODY IN JAPANESE PATIENTS WITH MYASTHENIA GRAVIS -

Konno Shingo^{*[1]}, Murata Mayumi^[2], Toda Takahiro^[3], Nakazora Hiroshi^[4], Nomoto Nobuatsu^[5], Sugimoto Hideki^[6], Nemoto Hiroshi^[7], Fujioka Toshiki^[8], Tanaka Keiko^[9]

^[1]Shingo Konno ~ Toho University Ohashi Medical Center, Tokyo ~ Japan - ^[2]Mayumi Murata ~ Toho University Ohashi Medical Center, Tokyo ~ Japan - ^[3]Takahiro Toda ~ Toho University Ohashi Medical Center, Tokyo ~ Japan - ^[4]Hiroshi Nakazora ~ Toho University Ohashi Medical Center, Tokyo ~ Japan - ^[5]Nobuatsu Nomoto ~ Toho University Ohashi Medical Center, Tokyo ~ Japan - ^[6]Hidaki Sugimoto ~ Toho University Ohashi Medical Center, Tokyo ~ Japan - ^[7]Hiroshi Nemoto ~ Toho University Ohashi Medical Center, Tokyo ~ Japan - ^[8]Toshiki Fujioka ~ Toho University Ohashi Medical Center, Tokyo ~ Japan - ^[9]Keiko Tanaka ~ Brain Research Institute, Niigata University, Niigata ~ Japan

9 - CLINICAL AND IMMUNOLOGICAL CORRELATES IN MYASTHENIA GRAVIS ASSOCIATED WITH MUSK ANTIBODIES -

Viegas Stuart^{*[1]}, Jacob Saiju^[1], Leite Maria Isabel^[1], Cossins Judith^[1], Morgan B Paul^[2], Hilton-Jones David^[3], Buckley Camilla^[3], Vincent Angela^[1]

^[1]Neuroscience Group, University of Oxford ~ Oxford ~ United Kingdom - ^[2]Dept of Medical Biochemistry and Immunology, Cardiff University ~ Cardiff ~ United Kingdom - ^[3]Department of Clinical Neurology, University of Oxford ~ Oxford ~ United Kingdom

10 - A MICROEMULSION FORM CYCLOSPORINE CAN EFFECTIVELY AND SAFELY REDUCE CORTICOSTEROID DOSAGE IN MYASTHENIA GRAVIS -

Suzuki Yasushi^{*[1]}, Fujihara Kazuo^[2], Shimizu Masaaki^[3], Sato Shigeru^[4], Sato Takashi^[1], Narikawa Koichi^[1], Tsukita Kenichi^[1], Nishiyama Shuhei^[2], Itoyama Yasuto^[2]

^[1]National Hospital Organization Sendai Medical Center ~ Sendai ~ Japan - ^[2]Tohoku University Hospital ~ Sendai ~ Japan - ^[3]Shimizu Clinic ~ Sendai ~ Japan - ^[4]Konan Hospital ~ Sendai ~ Japan

11 - LYMPHATIC VESSELS AND HIGH ENDOTHELIAL VENULES IN ADULT HUMAN THYMI; THEIR DISPOSITION AND REACTIVATION IN MYASTHENIA GRAVIS -

Leite Maria Isabel^{*[1]}, Strobel Philipp^[2], Marx Alexander^[2], Vincent Angela^[1], Jackson David^[3], Willcox Nick^[1]

^[1]Neurosciences Group, Weatherall Institute for Molecular Medicine, Oxford University ~ Oxford ~ United Kingdom - ^[2]Institute of Pathology, Medical Center Mannheim, University of Heidelberg ~ Heidelberg ~ Germany - ^[3]MRC Human Immunology Unit, Weatherall Institute for Molecular Medicine, Oxford University ~ Oxford ~ United Kingdom

12 - TRANSCRIPTIONAL FACTOR T-BET DETERMINES THE SUSCEPTIBILITY TO EXPERIMENTAL MYASTHENIA GRAVIS -

Liu Ruolan^{*[3]}, Bai Xue-Feng^[2], Vollmer Timothy^[3], Campagnolo Denise^[3], Shi Fu-Dong^[3]

^[2]Ohio State University Medical Center ~ Columbus ~ United States - ^[3]Barrow Neurological Institute ~ Phoenix ~ United States

13 - GLYCOSYLATION OF IGG IN THREE AUTOIMMUNE MYASTHENIC SYNDROMES -

Niks Erik H.^{*[1]}, de Boer A.R.^[1], Titulaer M.J.^[1], Jol-van der Zijde C.M.^[1], Wuhrer M.^[1], Verschuuren J.J.G.M.^[1]

^[1]Leiden University Medical Center ~ Leiden ~ Netherland

14 - B CELL REGULATING ACTIVITY IN PATIENTS WITH MYASTHENIA GRAVIS -

Yilmaz Vuslat^{*[1]}, Oflazer Piraye^[1], Parman Yesim^[1], Deymeer Feza^[1], Saruhan-Direskeneli Guher^[1]

^[1]I.U.Istanbul Medical Faculty ~ Istanbul ~ Turkey

15- TLR4 ENHANCES THE DEVELOPMENT OF LPS-ACETYLCHOLINE RECEPTOR INDUCED AUTOIMMUNE MYASTHENIA GRAVIS -

Allman Windy^{*[1]}, Qi Huibin^[1], Saini Shamsher S.^[1], Christadoss Premkumar^[1]

^[1]University of Texas Medical Branch ~ Galveston ~ United States



POSTER SESSION: **AUTOANTIBODIES**

1 - ELEVATED IL-6 LEVELS IN THE CEREBROSPINAL FLUID OF NEUROMYELITIS OPTICA PATIENTS -

Tuzun Erdem^[1], Akman-Demir Gulsen^{*[1]}, Icoz Sema^[1], Kurtuncu Murat^[1], Eraksoy Mefkure^[1]

^[1]Istanbul Faculty of Medicine ~ Istanbul ~ Turkey

2 - NOVEL AUTOANTIGENS RECOGNIZED BY CSF IGG FROM HASHIMOTO'S ENCEPHALITIS REVEALED BY A PROTEOMIC APPROACH -

Gini Beatrice^{*[1]}, Lovato Laura^[1], Cianti Riccardo^[2], Cecotti Laura^[3], Marconi Silvia^[1], Anghileri Elena^[1], Armini Alessandro^[3], Moretto Giuseppe^[1], Bini Luca^[2], Ferracci Franco^[3], Bonetti Bruno^[1]

^[1]University of Verona ~ Verona ~ Italy - ^[2]University of Siena ~ Siena ~ Italy - ^[3]Hospital of S.Martino ~ Belluno ~ Italy

3 - IMMUNIZATION WITH GROUP A BETA HEMOLYTIC STREPTOCOCCAL INFECTION INDUCES NEUROPSYCHIATRIC SYMPTOMS: A NEW RAT MODEL FOR SYDENHAM'S CHOREA AND PANDAS? -

Brimberg Lior^{*[1]}, Benhar Itai^[1], Cunningham Madeleine^[2], Joel Daphna^[1]

^[1]Tel Aviv University ~ Tel Aviv ~ Israel - ^[2]University of Oklahoma ~ Oklahoma City ~ United States

4 - AUTOANTIBODIES AGAINST GLUR EPSILON 2 IN ADULT PATIENTS WITH NON-PARANEOPlastic ACUTE LIMBIC ENCEPHALITIS -

Takahashi Yukitoshi^{*[1]}, Kubota Yuko^[1], Yamasaki Etsuko^[1], Nishimura Shigeko^[1], Tsunogae Hisano^[1], Fujiwara Tateki^[1]

^[1]National Epilepsy Center ~ Shizuoka ~ Japan

5 - IGG SUBCLASSES OF DISEASE-SPECIFIC ANTIBODIES AND COMPLEMENT ACTIVATION IN-VITRO IN SERONEGATIVE MYASTHENIA GRAVIS AND NEUROMYELITIS OPTICA -

Jacob Saiju^{*[1]}, Leite Maria Isabel^[1], Waters Patrick^[1], Viegas Stuart^[1], Cossins Judy^[1], Beeson David^[1], Morgan B Paul^[2], Vincent Angela^[1]

^[1]Neurosciences group ~ Oxford ~ United Kingdom - ^[2]Medical Biochemistry and Immunology ~ Cardiff ~ United Kingdom

6 - ANTI-MYELIN ANTIBODIES IN CEREBROSPINAL FLUID OF MS PATIENTS -

Vogt Mario^[1], Teunissen Charlotte E.^[1], Iacobus Ellen^[2], Heijnen Priscilla D.A.M.^[1], Breij Esther C.W.^[1], Olsson Tomas^[2], Lou Brundin^[2], Killestein Joep^[3], Dijkstra Christine D.^{*[1]}

^[1]Department of Molecular cell biology and Immunology, VU University medical center ~ Amsterdam ~ Netherlands - ^[2]Department of Clinical neuroscience, Karolinska Institutet ~ Stockholm ~ Sweden - ^[3]Department of Neurology, VU University medical center ~ Amsterdam ~ Netherlands

7 - A NOVEL ANTIGENIC TARGET IN MORVAN'S SYNDROME -

Irani Sarosh R^{*[1]}, Waters Paddy^[1], Beeson David^[1], Lang Bethan^[1], Vincent Angela^[1]

^[1]Neurosciences Group, Weatherall Institute of Molecular Medicine, John Radcliffe Hospital ~ Oxford ~ United Kingdom

8 - NEURODEGENERATION OF THE OPTIC NERVE AFTER IMMUNIZATION WITH HEAT SHOCK PROTEIN 27 IN AN ANIMAL MODEL -

Joachim Stephanie C.^{*[1]}, Wax Martin B.^[2], Kraft Daniela^[1], Pfeiffer Norbert^[1], Grus Franz H.^[1]

^[1]Experimental Ophthalmology ~ Mainz ~ Germany - ^[2]Alcon Research Ltd. ~ Fort Worth ~ United States

9 - GMI/GALNAC-GDIA COMPLEX: A TARGET FOR PURE MOTOR GUILLAIN-BARRÉ SYNDROME -

Kaida Ken-ichi^{*[1]}, Sonoo Masahiro^[1,3], Ogawa Go^[1], Kamakura Keiko^[1], Ueda Masami^[1,4], Arita Masanobu^[1,4], Motoyoshi Kazuo^[1], Kusunoki Susumu^[1,5]

^[1]National Defense Medical College ~ Tokorozawa ~ Japan - ^[1,4]Kinki University School of Medicine ~ Osaka ~ Japan - ^[1,3]Teikyo University School of Medicine ~ Tokyo ~ Japan - ^[1,4]Tokyo Kasei University ~ Tokyo ~ Japan

10 - ATYPICAL NMO-IGG-LIKE INDIRECT IMMUNOFLOURESCENCE PATTERNS IN ACUTE SYSTEMIC INFECTIONS -

Prain Kerr^{*[1]}, Nicholls Katherine^[1], Gillis David^[1], Banovic Tatjana^[1], Wong Richard^[1], Wilson Robert^[1]

^[1]Pathology Queensland ~ Brisbane ~ Australia

11 - EVALUATION OF DIFFERENT TECHNIQUES TO DETECT ANTI-AQUAPORIN 4 ANTIBODIES -

Fazio Raffaella^[1], Malosio Maria Luisa^[1], Lampasona Vito^[1], De Feo Donatella^[1], Privitera Daniela^[1], Marnetto Fabiana^[2], Centonze Diego^[3], Ghezzi Angelo^[4], Comi Giancarlo^[1], Furlan Roberto^{*[1]}, Martino Gianvito^[1]

^[1]San Raffaele Scientific Institute ~ Milano ~ Italy - ^[2]ASO S. Luigi Gonzaga, Orbassano ~ Torino ~ Italy - ^[3]Clinica Neurologica, Dipartimento di Neuroscienze, Università Tor Vergata ~ Roma ~ Italy - ^[4]Multiple Sclerosis Study Center, Hospital of Gallarate ~ Gallarate (Va) ~ Italy

12 - ANALYSIS OF AUTOANTIBODY PROFILES IN CEREBROSPINAL FLUID AND SERUM OF A RELAPSING-REMITTING MS PATIENT WITH ACTIVE DISEASE USING SEROLOGICAL ANTIGEN SELECTION -

Govarts Cindy^[1], Somers Klaartje^[4], Hupperts Raymond^[5], Stinissen Piet^[6], Somers Veerle^{*[7]}

^[1]Cindy Govarts ~ Hasselt University, Biomedical Research Institute and Transnationale Universiteit Limburg, School of Life Sciences, Diepenbeek ~ Belgium - ^[4]Klaartje Somers ~ Hasselt University, Biomedical Research Institute and Transnationale Universiteit Limburg, School of Life Sciences, Diepenbeek ~ Belgium - ^[5]Raymond Hupperts ~ Academic Hospital Maastricht, Maastricht ~ Netherlands - ^[6]Piet Stinissen ~ Hasselt University, Biomedical Research Institute and Transnationale Universiteit Limburg, School of Life Sciences, Diepenbeek ~ Belgium - ^[7]Veerle Somers ~ Hasselt University, Biomedical Research Institute and Transnationale Universiteit Limburg, School of Life Sciences, Diepenbeek ~ Belgium

13 - CHARACTERIZING AUTOANTIBODIES IN MULTIPLE SCLEROSIS BY B CELL IMMORTALIZATION -

Fraussen Judith^[1], Martinez Pilar^[2], de Baets Marc^[5], Van Diepen Anton^[6], Meulemans Els^[7], Stinissen Piet^[9], Somers Veerle^{*[10]}

^[1]Judith Fraussen ~ Hasselt University, Biomedical Research Institute and Transnationale Universiteit Limburg, School of Life Sciences, Diepenbeek ~ Belgium - ^[2]Pilar Martinez ~ Maastricht University, Maastricht ~ Netherlands - ^[5]Marc de Baets ~ Maastricht University and Academic Hospital Maastricht, Maastricht ~ Netherlands - ^[6]Anton Van Diepen ~ Atrium Heerlen, Heerlen ~ Netherlands - ^[7]Els Meulemans ~ Academic Hospital Maastricht, Maastricht ~ Netherlands - ^[9]Piet Stinissen ~ Hasselt University, Biomedical Research Institute and Transnationale Universiteit Limburg, School of Life Sciences, Diepenbeek ~ Belgium - ^[10]Veerle Somers ~ Hasselt University, Biomedical Research Institute and Transnationale Universiteit Limburg, School of Life Sciences, Diepenbeek ~ Belgium

14 - DEVIC'S NEUROMYELITIS OPTICA: PROGNOSTIC IMPLICATIONS OF NMO IGG STATUS IN TURKISH PATIENTS -

Akman-Demir Gulsen^[1], Tuzun Erdem^{*[1]}, Jarius Sven^[2], Icoz Sema^[1], Kurtuncu Murat^[1], Waters Patrick^[2], Yapici Zuhal^[1], Mutlu Melike^[1], Yesilot Nilufer^[1], Vincent Angela^[2], Eraksoy Mefkure^[1]

^[1]Istanbul Faculty of Medicine ~ Istanbul ~ Turkey - ^[2]Weatherall Institute of Molecular Medicine, John Radcliffe Hospital, University of Oxford ~ Oxford ~ United Kingdom

15 - A NOVEL FLUORESCENT IMMUNOPRECIPITATION (FIPA) METHOD TO DETECT ANTIBODIES TO NEW TARGETS IN ANTIBODY-MEDIATED DISEASES -

Waters Patrick^{*[1]}, Jacobson Leslie^[1], Leite M. Isabel^[1], Maxwell Susan^[1], Beeson David^[1], Vincent Angela^[1]

^[1]Weatherall Institute of Molecular Medicine ~ Oxford ~ United Kingdom

16 - TRANSKETOLASE AND CNPASE I ISOFORMS ARE SPECIFICALLY RECOGNIZED BY IGG AUTOANTIBODIES IN MULTIPLE SCLEROSIS PATIENTS -

Lovato Laura^{*[1]}, Cianti Riccardo^[2], Gini Beatrice^[1], Locatelli Francesca^[1], Franciotta Diego^[2], Bini Luca^[2], Bonetti Bruno^[1]

^[1]University of Verona ~ Verona ~ Italy - ^[2]University of Siena ~ Siena ~ Italy - ^[3]University of Pavia ~ Pavia ~ Italy

17 - INTRODUCTION OF A CELL BASED ASSAY TO DETERMINE AND CHARACTERIZE THE ANTIBODIES TO AQUAPORIN-4. HIGH SPECIFICITY AND SENSITIVITY FOR NEUROMYELITIS OPTICA -

Kalluri Sudhakar Reddy^{*[2]}, Srivastava Rajneesh^[2], Cepok Sabine^[2], Menge Til^[2], Cree Bruce^[1,0], Berthele Achim^[2], Hemmer Bernhard^[2]

^[2]Dept of Neurology, Technische Univesritat Munich ~ Munich ~ Germany - ^[1]Dept. of Neurologie, Uniklinikum Dusseldorf ~ Dusseldorf ~ Germany - ^[1,0]Dept. of Neurology ~ University of California, San Francisco ~ United States

18 - ANTI-LYSOGANGLIOSIDE ANTIBODIES CORRELATE WITH ACUTE SYDENHAM CHOREA, PANDAS AND TICS -

Mascaro-Blanco A^{*[1]}, Alvarez K^[1], Kirvan K^[2], Heuser J^[1], Leckman J^[3], Swedo S^[4], Grant P^[4], Parke J^[5], Cunningham MW^[1]

^[1]University of Oklahoma Health Sciences Center ~ Oklahoma City ~ United States - ^[2]California State University ~ Sacramento ~ United States - ^[3]Yale University ~ New Haven ~ United States - ^[4]National Institute of Mental Health ~ Bethesda ~ United States - ^[5]OU Health Sciences Center Childrens Hospital ~ Oklahoma City ~ United States

19 - INTRODUCTION OF CELL BASED ASSAY TO DETERMINE HIGH TITRES OF NATIVE MOG REACTIVE ANTIBODIES IN ACUTE DISSEMINATED ENCEPHALOMYELITIS -

Muhammad Aslam^{*[1]}, Zhou Dun^[1], Grummel Verena^[1], Kalluri Sudhakar Reddy^[1], Cepok Sabine^[1], Hemmer Bernhard^[1]

^[1]Dept of Neurology, Technische Univesritat Muenchen ~ Munich ~ Germany

20 - SEQUENTIAL VOLTAGE-GATED POTASSIUM CHANNEL AND AQUAPORIN-4 ANTIBODIES IN A PATIENT WITH SEROPOSITIVE MYASTHENIA GRAVIS, LIMBIC ENCEPHALITIS AND NEUROMYELITIS OPTICA -

Jacobson Leslie^{*[1]}, Waters Patrick^[1], Leite M. Isabel^[1], Vincent Angela^[1], Buckley Camilla^[1]

^[1]Neurosciences Group, Department of Clinical Neurology, University of Oxford ~ Oxford ~ United Kingdom

21 - CHARACTERIZATION OF HUMORAL RESPONSES IN MOVEMENT AND BEHAVIOR DISORDERS ASSOCIATED WITH GROUP A STREPTOCOCCUS -

Kirvan Christine^{*[1]}, Swedo Susan^[2], Cunningham Madeleine^[3]

^[1]California State University, Sacramento ~ Sacramento, CA ~ United States - ^[2]National Institute of Mental Health ~ Bethesda, MD ~ United States - ^[3]University Of Oklahoma, HSC ~ Oklahoma City, OK ~ United States

22 - EFFICACY OF RITUXIMAB IN A SENSORY ATAXIC NEUROPATHY ASSOCIATED WITH IGM MONOCLONAL GAMMAPATHY REACTING WITH DISIALOSYL EPIPEPE -

Emilien Delmont^[1], Anne Michèle Hubert^[2], Claude Desnuelle^[1], José Boucraut^{*[3]}

^[1]Archet Hospital Neurological Dept ~ Nice ~ France - ^[2]AP-HM Immunology Lab ~ Marseilles ~ France - ^[3]UMR CNRS 6231 ~ Marseilles ~ France

23 - CROSS-REACTIVE STREPTOCOCCAL AND BRAIN SPECIFICITIES DEVELOP IN TRANSGENIC MICE EXPRESSING VARIABLE REGION GENES OF SYDENHAM CHOREA-DERIVED ANTIBODY -

Cox Carol^{*[1]}, Heuser Janet^[1], Mascaro-Blanco Adita^[1], Alvarez Kathy^[1], Kosanke Stanley^[1], Cunningham Madeleine^[1]

^[1]Department of Microbiology and Immunology, University of Oklahoma Health Sciences Center ~ Oklahoma City ~ United States



POSTER SESSION: NEURODEGENERATIVE AND PARANEOPLASTIC DISORDERS

1 - CLOSE ASSOCIATION OF AQPI-EXPRESSING ASTROCYTES WITH AMYLOID-BETA DEPOSITION IN ALZHEIMER DISEASE BRAINS -

Misawa Tamako^[1], Arima Kunimasa^[3], Mizusawa Hidehiro^[3], Satoh Jun-ichi^[6]

^[1]Tamako Misawa ~ Tokyo ~ Japan - ^[3]Hidehiro Mizusawa ~ Tokyo ~ Japan - ^[5]Kunimasa Arima ~ Tokyo ~ Japan - ^[6]Jun-ichi Satoh ~ Tokyo ~ Japan

2 - MACROPHAGE COLONY-STIMULATING FACTOR PREVENTS BETA-AMYLOID DEPOSITION AND COGNITIVE IMPAIRMENT IN APPSWE/PSI TRANSGENIC MICE -

Vincent Boissonneault^{*[1]}, Martine Lessard^[1], Mohammed Filali^[1], Jane Relton^[2], Gordon Wong^[2], Serge Rivest^[1]

^[1]CHUL research center ~ Quebec ~ Canada - ^[2]Biogen Idec ~ Cambridge ~ United States

3 - TOLL-LIKE RECEPTOR 2 ACTS AS A NATURAL INNATE IMMUNE RECEPTOR TO CLEAR AMYLOID BETA1-42 AND DELAY THE COGNITIVE DECLINE IN A MOUSE MODEL OF ALZHEIMER'S DISEASE -

Richard Karine L.^{*[1]}, Filali Mohammed^[1], Préfontaine Paul^[1], Rivest Serge^[1]

^[1]Laboratory of Molecular Endocrinology, CHUL Research Center and ~ Québec ~ Canada

4 - IMMUNE SENEESCENCE PLAYS A ROLE IN COGNITIVE SENEESCENCE -

Ron-Harel Noga^{*[1]}, Segev Yifat^[1], Cardon Micha^[1], Schwartz Micha^[1]

^[1]Weizmann Institute of Science ~ Rehovot ~ Israel

5 - NEURODEGENERATION IN THE STRIATUM DOES NOT IMPAIR SPATIAL MEMORY ABILITIES IN THE MICE MODEL OF PARKINSONS DISEASE -

Zaremba Malgorzata^{*[1]}, Joniec Ilona^[1], Iwona Kurkowska - Jastrzebska^[2], Piechal Agnieszka^[1], Widy - Tyszkiewicz Ewa^[1], Czlonkowska Anna^[2], Czlonkowski Andrzej^[1]

^[1]Medical University of Warsaw ~ Warsaw ~ Poland - ^[2]Institute of Psychiatry and Neurology ~ Warsaw ~ Poland

6 - MICROGLIAL ACTIVATION AND ADAPTIVE IMMUNE RESPONSE IN A MOUSE MODEL OF PARKINSON'S DISEASE -

Theodore Shaji^{*[1]}, Cao Shuwen^[1], McLean Pamela^[2], Standaert David^[1]

^[1]Neurology, The University of Alabama at Birmingham ~ Birmingham ~ United States - ^[2]Massachusetts General Hospital ~ Charlestown ~ United States

7 - ROLE OF VEGF IN SPINOCEREBELLAR ATAXIA I(SCAI) -

Cvetanovic Marija^{*[1]}, Opal Puneet^[1]

^[1]Northwestern University ~ Chicago ~ United States

8 - EFFECT OF GEPT EXTRACTS ON SHANKI PROTEIN EXPRESSION WITHIN THE HIPPOCAMPUS OF THE APPV717I TRANSGENIC MICE IN THE EARLY STAGE OF DEMENTIA -

Zhang Leiming^[1], Tian Jinzhou^[1], Yin Junxiang^[1], Shi Jing^[1], Wang Pengwen^[1]

^[1]Beijing University of Chinese Medicine ~ Beijing ~ China

9 - DIFFERENTIATION OF PARANEOPLASTIC CEREBELLAR DEGENERATION FROM MULTIPLE SCLEROSIS BY CEREBROSPINAL FLUID ANALYSIS -

Taneja Aanchal^{*[1]}, Cameron Elizabeth^[1], Monson Nancy^[1], Gupta Puneet^[1], Burton Erik^[1], Vernino Steven^[1]

^[1]UT Southwestern Medical Center ~ Dallas, Texas ~ United States

10 - ANALYSIS OF THE IGG DISTRIBUTION AND INFLAMMATORY INFILTRATES IN ENCEPHALITIS PATIENTS ASSOCIATED WITH ANTI-N-METHYL-D-ASPARTATE RECEPTOR ANTIBODY AND TERATOMA -

Tuzun Erdem^{*[1]}, Rossi Jeffrey^[2], Rosenfeld Myrna^[2], Dalmau Josep^[2]

^[1]Department of Neurology, Istanbul Faculty of Medicine ~ Istanbul ~ Turkey - ^[2]Department of Neurology ~ University of Pennsylvania ~ United States

11 - UPTAKE AND CYTOTOXIC SPECIFICITY OF ANTI-YO ANTIBODY FOR CEREBELLAR PURKINJE CELLS: PURKINJE CELLS IN ORGANOTYPIC CULTURE ARE KILLED BY ANTI-YO IGG BUT NOT BY IGG FROM NEUROLOGICALLY NORMAL OVARIAN CANCER HAVING OTHER ANTICEREBELLAR ANTIBODIES -

Greenlee John E.^{*[3]}, Hill Kenneth E.^[2], Clawson Susan A.^[2], Carlson Noel G.^[1]

^[1]VASLCHCS ~ Salt Lake City ~ United States - ^[2]University of Utah ~ Salt Lake City ~ United States - ^[3]VA SLCHCS ~ Salt Lake City ~ United States

12 - ANTI-CCDC104 IS A POTENTIALLY NEW ONCONEURAL ANTIBODY -

Totland Cecilie^{*[3]}, Bredholt Geir^[4], Haugen Mette^[3], Mazengia Kibret Yimer^[2], Haukanes Bjoern Ivar^[4], Vedeler Christian Alexander^[2]

^[2]Department of Clinical medicine, University of Bergen ~ Bergen ~ Norway - ^[3]Department of Neurology, Haukeland University Hospital ~ Bergen ~ Norway - ^[4]Center for Medical Genetics and Molecular Medicine, Haukeland University Hospital ~ Bergen ~ Norway

13 - MULTIFOCAL PARANEOPLASTIC CORTICAL ENCEPHALITIS ASSOCIATED WITH MYASTHENIA GRAVIS AND THYMOMA -*Hammoud Khaled*^[1], Geetha Kandimala^[1], Vernino Steven^[1]*^[1]UT Southwestern Medical Center ~ Dallas, Texas ~ United States**14 - INDUCTION OF TLR EXPRESSION IN THE PERIPHERAL NERVE UPON THE NEURODEGENERATION -***Van Avondt K, Goethals S, Jacobs A, Timmerman V, Janssens S**

Peripheral Neuropathy Group, Molecular Genetics Department, VIB, University of Antwerp, Antwerpen, Belgium

POSTER SESSION: GENETICS**1 - GENETIC EFFECTS ON APOPTOSIS AND INFLAMMATION AFTER TRAUMATIC BRAIN INJURY: STUDIES ON CONGENIC RAT STRAINS -***Al Nimer Faiez*^[1], Lidman Olle^[2], Strom Mikael^[3], Piehl Fredrik^[4]*^[1]Faiez Al Nimer ~ Stockholm ~ Sweden - ^[2]Olle Lidman ~ Stockholm ~ Sweden - ^[3]Mikael Strom ~ Stockholm ~ Sweden - ^[4]Fredrik Piehl ~ Stockholm ~ Sweden**2 - IMMUNOLOGICAL ABNORMALITIES IN THE PATIENTS WITH AUTISTIC REGRESSION -***Altintas Ayse*^[1], Korkmaz Baris^[1], Aksoy Poyraz Cana^[1], Ozdemir Samuray^[1], Savran Oguz Fatma^[6], Kekik Cigdem^[2], Ozdilli Kursat^[2]*^[1]Istanbul University Cerrahpasa Medical Faculty ~ Istanbul ~ Turkey - ^[2]Istanbul University Istanbul Medical Faculty ~ Istanbul ~ Turkey - ^[6]Istanbul University Istanbul Medical Faculty ~ Istanbul ~ Turkey**3 - ROLE OF THE CCR5 59029 A?G POLYMORPHISM IN NEURODEGENERATIVE DISORDERS -***Nemesio Cedeño*^[3], Mercedes Fernandez-Mestre^[1], Violeta Ogando^[1], Aiskhel Leòn^[6], Gisela Ramírez^[6], Julio Borges^[6], Francisco Hernández^[6], Ilva Campagna^[6], Sandra Crespo^[6], Zulay Layrisse^[1]*^[1]Laboratorio de Fisiopatología. Centro de Medicina Experimental "Miguel Layrisse". Instituto Venezolano de Investigaciones Científicas (IVIC), ~ Caracas ~ Venezuela - ^[3]Universidad Rómulo Gallegos ~ GUARICO ~ Venezuela - ^[6]Servicio de Neurología ~ Hospital Universitario de Caracas, Caracas ~ Venezuela**4 - POLYMORPHIC VARIATION IN 60 CYTOKINE AND CYTOKINE RECEPTOR GENES AND 7 GLUTAMATE RECEPTOR GENES IN NORTHERN SPANISH MULTIPLE SCLEROSIS -***Vandenbroeck Koen*^[1], Alvarez Jon^[2], Oyanguren Olatz^[1], Matute Carlos^[1], Aransay Ana^[2], Antiguedad Alfredo^[3]*^[1]Universidad del País Vasco ~ Leioa ~ Spain - ^[2]CIC bioGUNE ~ Derio ~ Spain - ^[3]Hospital Basurto ~ Bilbao ~ Spain**5 - THE RAT QTLs VRA1 AND VRA2 REGULATE AXOTOMY-INDUCED LOSS OF MOTONEURONS -***Ström Mikael*^[1], Swanberg Maria^[2], Harnesk Karin^[3], Diez Margarita^[4], Lidman Olle^[5], Al Nimer Faiez^[6], Piehl Fredrik^[7]*^[1]Mikael Ström ~ Stockholm ~ Sweden - ^[2]Maria Swanberg ~ Stockholm ~ Sweden - ^[3]Karin Harnesk ~ Stockholm ~ Sweden - ^[4]Margarita Diez ~ Stockholm ~ Sweden - ^[5]Olle Lidman ~ Stockholm ~ Sweden - ^[6]Faiez Al Nimer ~ Stockholm ~ Sweden - ^[7]Fredrik Piehl ~ Stockholm ~ Sweden**6 - GENETIC REGULATION OF MHC CLASS II EXPRESSION IN THE NERVOUS SYSTEM -***Diez Margarita^[1], Abdelmagid Nada^[1], Harnesk Karin^[1], Ström Mikael^[1], Lidman Olle^[1], Lindblom Rickard^[1], Swanberg Maria^[1], Olsson Tomas^[1], Piehl Fredrik*^[1]*^[1]Karolinska Institutet ~ Stockholm ~ Sweden**7 - GENETIC ANALYSIS OF MULTIPLE SCLEROSIS -***Bonetti Alessandro*^[1], Kristjansdottir Gudlaug^[2], Sandling Johanna^[2], Izaura Roos^[3], Tienari Pentti^[1], Hillert Jan^[3], Matesanz Fuencisla^[4], Syvänen Ann-Christine^[2]*^[1]Biomedicum-Helsinki ~ Helsinki ~ Finland - ^[2]Molecular Medicine, Department of Medical Sciences ~ Uppsala ~ Sweden - ^[3]Karolinska Institutet ~ Stockholm ~ Sweden - ^[4]Istituto de Parasitología y Biomedicina López Neyra ~ Granada ~ Spain**8 - HLA-DRB1*0401 AND HLA-DRB1*0408 ARE STRONGLY ASSOCIATED WITH THE DEVELOPMENT OF ANTIBODIES AGAINST INTERFERON-BETA THERAPY IN MULTIPLE SCLEROSIS -***Cepok Sabine*^[2], Hoffmann Steve^[1], Grummel Verena^[2], Lehmann-Horn Klaus^[2], Hackermueller Jörg^[3], Stadler Peter F.^[1], Hartung Hans-Peter^[4], Berthele Achim^[2], Deisenhammer Florian^[5], Wasmuth Ralf^[6], Hemmer Bernhard^[2]*^[1]Interdisciplinary Center for Bioinformatics and Department of Bioinformatics, University Leipzig ~ Leipzig ~ Germany - ^[2]Department of Neurology, Klinikum Rechts der Isar, Technical University Munich ~ Munich ~ Germany - ^[3]Fraunhofer Institute for Cell Therapy and Immunology, Leipzig ~ Leipzig ~ Germany - ^[4]Neurology, Heinrich-Heine University Düsseldorf ~ Düsseldorf ~ Germany - ^[5]Department of Neurology, Innsbruck Medical University ~ Innsbruck ~ Austria - ^[6]Medizinische Klinik und Poliklinik I, Universitätsklinikum Carl Gustav Carus und DKMS Life Science Lab, Dresden ~ Dresden ~ Germany



POSTER SESSION: VIRAL INFECTIONS AND GLIAL REACTIONS

1 - TOLL-LIKE RECEPTORS PROFILES AND FUNCTIONS IN ASTROCYTES, MICROGLIA AND OLIGODENDROCYTES -

Bsibsi Malika^{*[1]}, Baron Wia^[2], van Noort Johannes^[1]

^[1]Delta Crystallon BV ~ Leiden ~ Netherlands - ^[2]University of Groningen ~ Groningen ~ Netherlands

2 - THE ROLE OF T CELL SUBTYPES AND THEIR ASSOCIATED CYTOKINES IN MODULATION OF AMYLOID-BETA INDUCED MICROGLIAL ACTIVATION -

McQuillan Keith^{*[3]}, Lynch Marina A.^[4], Mills Kingston H. G.^[5]

^[3]Department of Biochemistry and Trinity College Institute of Neuroscience, Trinity College Dublin ~ ~ Ireland - ^[4]Trinity College Institute of Neuroscience, Trinity College Dublin ~ ~ Ireland - ^[5]Department of Biochemistry, Trinity College Dublin ~ ~ Ireland

3 - DELAYED REMYELINATION AFTER ETHIDIUM BROMIDE INJECTION IN THE SPINAL CORD OF DIABETIC RATS -

Bondan Eduardo^{*[1]}, Lallo Maria Anete^[2]

^[1]University Paulista ~ São Paulo ~ Brazil - ^[2]University Paulista ~ São Paulo ~ Brazil

4 - MICROGLIA DERIVED FROM EMBRYONIC STEM CELLS AS A TOOL TO STUDY MICROGLIA FUNCTION -

Napoli Isabella^{*[1]}, Kierdorf Katrin^[1], Neumann Harald^[1]

^[1]University ~ Bonn ~ Germany

5 - TRANSCRIPTION FACTORS IN AXONAL LESION-INDUCED GLIAL RESPONSE -

Mohammad H. khorooshi^{*[1]}, Alicia A. Babcock^[2], Trevor Owens^[1]

^[1]Medical Biotechnology Center ~ Odense ~ Denmark - ^[2]Medical Biotechnology Center ~ Odense ~ Denmark

6 - MODULATION OF NEUROINFLAMMATION BY CD200 AND IL-4 -

Lyons Anthony^{*[1]}, Downer Eric^[2], Lynch Marina^[1]

^[1]Trinity College Dublin ~ Dublin ~ Ireland - ^[2]Trinity College Dublin ~ Dublin ~ Ireland

7 - ENHANCED CLEARANCE OF MYELIN DEBRIS IN T-CELL INFILTRATED CNS -

Nielsen Helle Hvilsted^{*[1]}, Ladeby Rune^[1], Fenger Christina^[1], Babcock Alicia^[1], Owens Trevor^[1], Finsen Bente^[1]

^[1]Medical Biotechnology Center ~ Odense ~ Denmark

8 - SYSTEMIC INFLAMMATION MODULATES FC RECEPTOR EXPRESSION ON MICROGLIA IN A MOUSE MODEL OF CHRONIC NEURODEGENERATION: IMPLICATIONS FOR IMMUNOTHERAPY -

Teeling Jessica L.^{*[1]}, Lunnon Katie S.^[2], Glennie Martin J.^[1], Perry V. Hugh^[1]

^[1]University of Southampton ~ Southampton ~ United Kingdom - ^[2]Institute of Psychiatry ~ London ~ United Kingdom

9 - DENDRITIC CELL DIFFERENTIATION SIGNALS INDUCE NON-INFLAMMATORY PROPERTIES IN HUMAN ADULT MICROGLIA -

Lambert Caroline^{*[1]}, Desbarats Julie^[1], Arbour Nathalie^[2], Bar-Or Amit^[1], Jack P. Antel^[1]

^[1]Montreal Neurological Institute, McGill University ~ Montreal ~ Canada - ^[2]Research Center-CHUM, University of Montreal ~ Montreal ~ Canada

10 - SCHWANN CELLS AS ANTIGEN PRESENTING CELLS IN INFLAMMATORY NEUROPATHIES -

Meyer zu Horste Gerd^{*[1]}, Lehmann Helmar C.^[1], Wiendl Heinz^[2], Hartung Hans-Peter^[1], Kieseier Bernd C.^[1]

^[1]Department of Neurology, Heinrich-Heine-University ~ Duesseldorf ~ Germany - ^[2]Department of Neurology, Julius-Maximilians-University ~ Würzburg ~ Germany

11 - MICROGLIAL-DEPENDENT ASTROCYTE RESPONSE TO TOLL-LIKE RECEPTOR SIGNALING -

Holm Thomas^{*[1]}, Larsen Peter H.^[2], Owens Trevor^[1]

^[1]Medical Biotechnology Centre, University of Southern Denmark ~ Odense ~ Denmark - ^[2]Department of Neurobiology, Lundbeck ~ Valby ~ Denmark

12 - DUAL ROLE OF CD38 IN MICROGLIAL ACTIVATION AND ACTIVATION-INDUCED CELL DEATH -

Mayo Lior^{*[1]}, Frances E. Lund^[2], Marie-Jo Moutin^[4], Gideon Rechavi^[5], Amariglio Ninette^[6], Jacob-Hirsch Jasmine^[7], Stein Rueven^[2]

^[1]Lior Mayo ~ Tel Aviv ~ Israel - ^[2]Stein Reuven ~ Tel Aviv ~ Israel - ^[3]Frances E. Lund ~ New York ~ United States - ^[4]MJ Moutin ~ La Tronche ~ France - ^[5]Gideon Rechavi ~ Tel Aviv ~ Israel - ^[6]Ninette Amariglio ~ Tel Aviv ~ Israel - ^[7]Jasmine Jacob-Hirsch ~ Tel Aviv ~ Israel

13 - ROLES OF SIRT1 FOR THE FATE OF NEURAL PROGENITORS IN THE COURSE OF CHRONIC AUTOIMMUNE NEUROINFLAMMATION -

Prozorovski Timour^{*[1]}, Schulze-Topphoff Ulf^[1], Glumm Robert^[1], Baumgart Jan^[2], Schröter Friederike^[1], Ninnemann Olaf^[2], Siegert Elise^[1], Bendix Ivo^[1], Brüstle Oliver^[3], Nitsch Robert^[2], Zipp Frauke^[1], Aktas Orhan^[1]

^[1]Cecilie Vogt Clinic for Neurology, Charite - Universitätsmedizin Berlin ~ Berlin ~ Germany - ^[2]Institute for Cell- and Neurobiology, Charite - Universitätsmedizin Berlin ~ Berlin ~ Germany - ^[3]Institute of Reconstructive Neurobiology, University of Bonn Medical Center and Hertie Foundation ~ Bonn ~ Germany

14 - ROLE OF CD38 IN IL-1BETA-INDUCED ASTROCYTE GLUTAMATE CLEARANCE IMPAIRMENT -

Kou Wei^{*[1]}, Banerjee Sugato^[2], Borgmann Kathleen^[1], Wu Li^[2], Persidsky Raisa^[2], Anuja Ghorpade^[1]

^[1]Department of Cell Biology and Genetics, University of North Texas Health Science Center ~ Fort Worth ~ United States - ^[2]Center for Neurovirology and Neurodegenerative Disorders, University of Nebraska Medical Center ~ Omaha ~ United States

15 - MECHANISM OF CNS-IMMUNE RECONSTITUTION INFLAMMATORY SYNDROME WITH HIV INFECTION -

Johnson Tory^{*[3]}, Calabresi Peter^[3], Nath Avindra^[3]

^[3]Johns Hopkins School of Medicine ~ Baltimore, MD ~ United States

16 - RNA INTERFERENCE MEDIATED SILENCING OF HSP60 AND 70 GENES IN HUMAN MONOCYTES REVEALS DECREASED DENGUE VIRUS MULTIPLICATION -

Ganju Lilly^{*[2]}

^[2]Lilly Ganju ~ Delhi ~ India

17 - THE ROLE OF INFLAMMATORY MONOCYTE-DERIVED MACROPHAGES AND MICROGLIA IN THE IMMUNOPATHOLOGY OF FATAL MURINE WEST NILE VIRUS ENCEPHALITIS -

Getts Daniel R^[1], Terry Rachael L^{*[1]}, Getts Meghann T^[1], Muller Marcus^[1], Radford Jane^[1], Rana Sabita^[1], Davison Ariane^[1], Carter Sally^[1], Hofer Markus^[1], van Rooijen Nico^[2], Campbell Iain L^[1], King Nicholas JC^[1]

^[1]The University of Sydney ~ Sydney ~ Australia - ^[2]Vrije Universiteit ~ Amsterdam ~ Netherlands

18 - CYTOKINE RESPONSE OF MICROGLIA, ASTROCYTES, NEURONS AND A CO-CULTURE UPON INFECTION WITH HSV-1 VR3 AND SCI6 -

Schwab Fiona^{*[1]}, Valley Pamela^[1], Klapper Paul^[2]

^[1]University of Manchester ~ Manchester ~ United Kingdom - ^[2]Central Manchester and Manchester Children's Hospital ~ Manchester ~ United Kingdom

19 - SINGLE-CELL ANALYSES OF MEMORY B CELLS FROM CEREBROSPINAL FLUID OF HIV PATIENTS REVEALS CLONAL EXPANSION, SOMATIC HYPERMUTATION AND RESTRICTED V REGION GERMLINE USAGE -

Bennett Jeffrey^{*[3]}, Bautista Katherine^[4], Owens Gregory^[5], Arendt Gabriele^[6], Gilden Donald^[7], Hemmer Bernhard^[8], Cepok Sabine^[9]

^[3]Departments of Neurology and Ophthalmology, University of Colorado Denver ~ Denver ~ United States - ^[4]Department of Neurology, University of Colorado Denver ~ Denver ~ United States - ^[5]Department of Neurology, University of Colorado Denver ~ Denver ~ United States - ^[6]Department of Neurology, Heinrich Heine-University ~ Dusseldorf ~ Germany - ^[7]Departments of Neurology and Microbiology, University of Colorado Denver ~ Denver ~ United States - ^[8]Department of Neurology, Technische Universitat ~ Munich ~ Germany - ^[9]Department of Neurology, Technische Universitat ~ Munich ~ Germany

20 - IFN-GAMMA-MEDIATED SUPPRESSION OF CORONAVIRUS REPLICATION IN OLIGODENDROCYTES DERIVED FROM NEURAL PROGENITOR CELLS IS DEPENDENT ON SECRETION OF TYPE I INTERFERON -

Whitman Lucia^{*[1]}, Xhou Haixia^[2], Perlman Stanley^[3], Lane Thomas^[1]

^[1]University of California, Irvine ~ Irvine ~ United States - ^[2]University of Iowa ~ Iowa City ~ United States - ^[3]University of Iowa ~ Iowa City ~ United States

21 - CD46 EXPRESSION IS DECREASED IN SUBACUTE SCLEROSING PANENCEPHALITIS PATIENTS -

Yentur Sibel Penbe^[1], Gurses Candan^[1], Demirbilek Veysi^[2], Uysal Serap^[2], Yilmaz Gulden^[1], Yapici Zuhar^[1], Cokar Ozlem^[3], Onal Emel^[1], Kuru Umit^[4], Adin-Cinar Suzan^[5], Gokyigit Aysen^[1], Saruhan-Direskeneli Guher^{*[1]}

^[1]I.U.Istanbul Medical Faculty ~ Istanbul ~ Turkey - ^[2]I.U.Cerrahpasa Medical Faculty ~ Istanbul ~ Turkey - ^[3]Haseki Hospital ~ Istanbul ~ Turkey - ^[4]Bayrampasa Hospital ~ Istanbul ~ Turkey - ^[5]DETAE ~ Istanbul ~ Turkey

22 - LIPOPOLYSACCHARIDE PROTECTS AGAINST NEUROLOGICAL DISEASE IN CATS INFECTED WITH FELINE IMMUNODEFICIENCY VIRUS -

Maingat Ferdinand^[1], Viappiani Serena^[1], Zhu Yu^[1], Afkhami-Goli Amir^[1], Power Christopher^{*[1]}

^[1]University of Alberta ~ Edmonton ~ Canada

AFTERNOON

ROOM A

13.15-15.15 CONCURRENT SYMPOSIUM: INNATE IMMUNITY

Chairs: **S. Rivest, W. Karpus**

13.15-13.45	Bone marrow stem cell in the rescue of brain diseases	Serge Rivest
13.45-14.15	Innate immunity in degeneration and regeneration of the CNS. The good and evil of host defense	Tim Vartanian
14.15-14.45	TGF beta signaling in immune mediated CNS disease	Tony Wyss-Coray
14.45-15.15	Antigen presenting cell regulation of CNS chemokine expression	William Karpus



ROOM B

13.15-15.15 **CONCURRENT SYMPOSIUM: INFECTION AND THE CNS**
Chairs: **H. Perry, M. Cunningham**

13.15-13.45	Toll-like receptors (TLRs): a link between innate and adaptive immunity and issue injury in bacterial brain abscesses	Tammy Kielian
13.45-14.15	Autoimmunity and behavior: Sydenham's Chorea and related disorders	Madeline Cunningham
14.15-14.45	Immune reconstitution syndrome in HIV infection	Avi Nath
14.45-15.15	The impact of systemic inflammation on the brain in health and disease	Hugh Perry

ROOM C

13.15-15.15 **CONCURRENT SYMPOSIUM: DEVELOPMENTS IN MYASTHENIA GRAVIS**
Chairs: **E.Kraig, P. Christadoss**

13.15-13.45	Use of a novel transgenic model to unravel mechanisms of tolerance to AchR	Ellen Kraig
13.45-14.15	Classical complement pathway and IL-6 in autoimmune myasthenia gravis pathogenesis	Premkumar Christadoss
14.15-14.45	Myasthenia gravis experimentally induced with muscle specific kinase	Kazuhiro Shigemoto
14.45-15.15	Baff and the B cell in myasthenia gravis	Samia Ragheb

ROOM E

13.15-15.15 **CONCURRENT SYMPOSIUM: HORMONAL REGULATION OF NEUROIMMUNOLOGIC DISEASE**
Chairs: **B. Diamond, R. Voskuhl**

13.15-13.45	Estrogen treatments in EAE/MS	Rhonda Voskuhl
13.45-14.15	Immunoregulatory and neuroprotective effect of sex steroids on EAE and MS	Halina Offner
14.15-14.45	Microchimerism: The legacy of maternal-fetal cell traffic	Lee Nelson
14.45-15.15	Antibodies and the brain: lessons from lupus	Betty Diamond
15.15-15.45	COFFEE BREAK	

ROOM A

15.45-17.15 **WORKSHOP: EAE PATHOGENESIS**
Chairs: **H. Wekerle**

1 - MOG-SPECIFIC T CELLS CO-RECOGNIZE NEUROFILAMENT-M IN MURINE AUTOIMMUNE ENCEPHALOMYELITIS -

Krishnamoorthy Gurumoorthy^{*[1]}, Saxena Amit^[2], Mars Lennart T^[2], Dornmair Klaus^[1], Mentele Reinhard^[1], Domingues Helena S^[1], Lassmann Hans^[3], Liblau Roland^[2], Kurschus Florian C^[1], Wekerle Hartmut^[1]

^[1]Max-Planck Institute of Neurobiology ~ Martinsried ~ Germany - ^[2]Institut National de la Santé et de la Recherche Médicale ~ Toulouse ~ France - ^[3]University of Vienna ~ Vienna ~ Austria

2 - TWO-PORE-DOMAIN POTASSIUM CHANNEL TASK1 CONTRIBUTES TO NEURODEGENERATION IN EXPERIMENTAL AUTOIMMUNE ENCEPHALOMYELITIS -

Stefan Bittner^{*[1]}, Sven G. Meuth^[1], Kerstin Goebel^[1], Ole J. Simon^[1], Douglas A. Bayliss^[2], Martin Bendszus^[3], Heinz Wiendl^[1]

^[1]Department of Neurology ~ University of Wuerzburg ~ Germany - ^[2]Department of Pharmacology ~ University of Virginia, Charlottesville ~ United States - ^[3]Department of Neuroradiology ~ University of Heidelberg ~ Germany

3 - THE MULTIPLE SCLEROSIS-ASSOCIATED MHC DR2A GENE DRIVES DISEASE IN A HUMANIZED TRANSGENIC MODEL OF CNS AUTOIMMUNITY -

Quandt Jacqueline^{*[1]}, Huh Jaebong^[1], Baig Mirza^[1], Yao Karen^[1], Kawamura Kazayuki^[1], Pinilla Clemencia^[2], McFarland Henry^[1], Martin Roland^[3], Ito Kouichi^[4]

^[1]National Institutes of Health ~ Bethesda ~ United States - ^[2]Torrey Pines Institute for Molecular Studies ~ San Diego ~ United States -

^[3]University of Hamburg ~ Hamburg ~ Germany - ^[4]UMDNJ ~ Piscataway ~ United States

4 - MAPPING AND FUNCTIONAL CHARACTERIZATION OF LOCI ON RAT CHROMOSOME 1 THAT REGULATE CYTOKINE PRODUCTION, EXPERIMENTAL ENCEPHALOMYELITIS AND ARTHRITIS -

Nohra Rita^{*[1]}, Beyeen Amenna^[1], Ping Guo Jian^[2], Isaksson Ola^[1], Wallstrom Erik^[1], Lorentzen Johnny^[2], Jagodic Maja^[1], Olsson Tomas^[1]

^[1]Karolinska Institutet, Department of Clinical Neuroscience ~ Stockholm ~ Sweden - ^[2]Karolinska Institutet, Department of Medicine ~ Stockholm ~ Sweden

5 - AGE, SEASON AND STRESS INFLUENCE EAE SEXUAL DIMORPHISM IN SJL/J MICE -

Spach Karen^{*[1]}, An Lingling^[2], Blake Melissa^[1], Blankenhorn Elizabeth^[3], Bunn Jan Y^[1], Doerge Rebecca^[2], McElvany Ben^[1], Noubade Rajkumar^[1], Tung Kenneth^[4], Teuscher Cory^[1]

^[1]University of Vermont ~ Burlington, VT ~ United States - ^[2]Purdue University ~ West Lafayette, IN ~ United States - ^[3]Drexel University ~ Philadelphia, PA ~ United States - ^[4]University of Virginia ~ Charlottesville, VA ~ United States

6 - MARKED CHANGE IN MICRORNA EXPRESSION IN MOG-INDUCED RAT EXPERIMENTAL AUTOIMMUNE ENCEPHALOMYELITIS -

Jia Yanjie^{*[1]}, Zhou Yan^[1], Wen Quanqing^[1], Wang Mingchuang^[1], Zhang Boai^[1]

^[1]The First Affiliated Hospital, Zhengzhou University ~ Zhengzhou ~ China

ROOM B

15.45-17.15 **WORKSHOP: MS IMMUNE STUDIES**

Chairs: **O. Stuve**

1 - ROLE OF AUTOREACTIVITY AGAINST MYELIN PROTEOLIPID PROTEIN IN MULTIPLE SCLEROSIS -

Greer Judith^{*[1]}, Csurhes Peter^[1], Muller Diane^[1], Pender Michael^[1]

^[1]University of Queensland ~ Brisbane ~ Australia

2 - INCREASED CYTOLYTIC FUNCTION BUT IMPAIRED EXPANSION OF NATURAL KILLER CELLS IN MULTIPLE SCLEROSIS -

Lunemann Jan^{*[1]}, Lunemann Anna^[1], DeAngelis Tracy^[2], Jelcic Ilijas^[3], Messmer Brady^[1], Miller Aaron^[2], Lublin Fred^[2], Munz Christian^[1]

^[1]The Rockefeller University ~ New York ~ United States - ^[2]Mount Sinai School of Medicine ~ New York ~ United States - ^[3]Institute for Clinical MS Res

3 - IMMUNOLOGICAL AND CLINICAL STATUS 14 MONTHS AFTER CESSATION OF NATALIZUMAB THERAPY -

Stuve Olaf^{*[3]}, Cravens Petra^[4], Frohman Elliot^[5], Phillips J. Theodore^[6], Remington Gina M.^[4], von Geldern Gloria^[7], Cepok Sabine^[7], Singh Mahendra P.^[4], Cohen Tervaert Jan W.^[8], De Baets Marc^[8], MacManus David^[9], Miller David H.^[9], Radu Ernst W.^[10], Cameron Elizabeth M.^[4], Monson Nancy L.^[4], Song Zhang^[4], Kim Richard^[11], Hemmer Bernhard^[12], Racke Michael K.^[13]

^[3]VA North Texas Health Care System, Medical Service ~ Dallas ~ United States - ^[4]The University of Texas Southwestern Medical Center ~ Dallas ~ United States - ^[5]The University of Texas Southwestern Medical Center ~ Dallas ~ United States - ^[6]Multiple Sclerosis Center at Texas Neurology ~ Dallas ~ United States - ^[7]Heinrich Heine University ~ Dusseldorf ~ Germany - ^[8]University Hospital Maastricht ~ Maastricht ~ Netherlands - ^[9]Institute of Neurology, Queen Square ~ London ~ United Kingdom - ^[10]University Hospital Basel ~ Basel ~ Switzerland - ^[11]Biogen-Idex ~ Cambridge ~ United States - ^[12]Technische Universitaet ~ Muenchen ~ Germany - ^[13]The Ohio State University Medical Center ~ Columbus ~ United States

4 - ELEVATED CLUSTERIN EXPRESSION IN CSF AND MS BRAIN -

Stoop Marcel^[1], Verbraak Evert^{*[1]}, Jafari Naghmeh^[1], van Meurs Marjan^[1], Wierenga Annet^[1], Luiders T^[1], Laman Jon^[1], Hintzen Rogier^[1]

^[1]Erasmus MC ~ Rotterdam ~ Netherlands

5 - NATURAL NAIVE REGULATORY T CELL DEVELOPMENT AND FUNCTION ARE DISTURBED IN MULTIPLE SCLEROSIS PATIENTS -

Venken Koen^[1], Hellings Niels^[2], Broekmans Tom^[2], Hensen Karen^[3], Rummens Jean-Luc^[3], Stinissen Piet^{*[2]}

^[1]Hasselt University, Biomedical Research Institute ~ Diepenbeek ~ Belgium - ^[2]Hasselt University, Biomedical Research Institute ~ Diepenbeek ~ Belgium - ^[3]Virga Jesse Hospital ~ Hasselt ~ Belgium

6 - INFLAMED BLOOD-BRAIN BARRIER PROMOTES RECRUITMENT OF EFFECTOR MEMORY CD8+ T LYMPHOCYTES -

Ifergan Igal^{*[1]}, Kebir Hania^[1], Dodelet-Devillers Aurore^[1], Arbour Nathalie^[1], Prat Alexandre^[1]

^[1]CHUM Research Center, Notre-Dame Hospital, Neuroimmunology Laboratory ~ Montreal, Quebec ~ Canada



ROOM C

15.45-17.15

WORKSHOP: GLIAL REACTIONS

Chairs: **T. Benveniste**

1 - INCREASED PHOSPHORYLATION OF HEAT SHOCK PROTEIN 27 PLAYS A ROLE IN THE RESCUE OF NEURONS AND GLIAL CELLS IN THE SPINAL CORDS WITH EXPERIMENTAL AUTOIMMUNE ENCEPHALOMYELITIS AND IRRADIATION INJURY -

SHIN Taekyun^{*[1]}, MOON Changjong^[2], KIM Heechul^[1]

^[1]College of Veterinary Medicine, Cheju National University ~ Jeju ~ Korea South - ^[2]Department of Veterinary Anatomy, College of Veterinary Medicine, Chonnam National University ~ Gwangju ~ Korea South

2 - TISSUE TRANSGLUTAMINASE PLAYS A ROLE IN ASTROCYTE-FIBRONECTIN INTERACTIONS: A CONTRIBUTION TO ASTROGLIOSIS? -

Van Dam Anne-Marie^{*[2]}, Van Strien Miriam^[2], Fratantoni Silvana^[2], Breve John^[2], Drukarch Benjamin^[2]

^[2]VU University Medical Center, Dept. Anatomy & Neurosciences ~ Amsterdam ~ Netherlands

3 - EXPRESSION AND FUNCTION OF SOCS PROTEINS IN ASTROCYTES -

Benveniste ETTY (Tika)^{*[1]}, Baker Brandi^[2], Qin Hongwei^[3]

^[1]ETTY (Tika) Benveniste ~ Birmingham ~ United States - ^[2]Brandi Baker ~ Birmingham ~ United States - ^[3]Hongwei Qin ~ Birmingham ~ United States

4 - MICROGLIA PROTECT NEURONS AGAINST ISCHEMIA BY SYNTHESIS OF TUMOR NECROSIS FACTOR -

Lambertsen Kate^[1], Clausen Bettina^[1], Babcock Alicia^[1], Gregersen Rikke^[1], Wrenfeldt Martin^[1], Faergeman Niels J^[2], Dagnaes-Hansen Frederik^[2], Bluethmann Horst^[3], Meldgaard Michael^[1], Finsen Bente^{*[1]}

^[1]Medical Biotechnology Center, University of Southern Denmark ~ Odense C ~ Denmark - ^[2]Department of Biochemistry and Molecular Biology, University of Southern Denmark ~ Odense C ~ Denmark - ^[3]Department of Medical Microbiology and Immunology, University of Aarhus ~ Aarhus C ~ Denmark - ^[5]F Hoffmann-La Roche Ltd ~ Basel ~ Switzerland

5 - NEURONAL SURVIVAL AND ASTROCYTE-TIMP-1 REGULATION IN HIV-1-ASSOCIATED DEMENTIA -

Ghorpade Anuja^{*[1]}, Gardner Jessica^[2], Chao Clara^[1], Kathleen Borgmann^[1], Persidsky Raisa^[2], Wu Li^[2]

^[1]University of North Texas Health Science Center ~ Fort Worth, TX ~ United States - ^[2]University of Nebraska Medical Center ~ Omaha, NE ~ United States

6- MICROGLIA ACTIVATION IN ALZHEIMER'S DISEASE AFTER ABETA IMMUNIZATION: GOOD OR BAD? -

Zotova Elna^[1], Holmes Clive^[1], Nicoll James^[1], Boche Delphine^{*[1]}

^[1]University of Southampton ~ Southampton ~ United Kingdom

ROOM D

15.45-17.15

WORKSHOP: PSYCHONEUROIMMUNOLOGY

Chairs: **G. Martino**

1 - CONSEQUENCES OF STRESS-AXIS ACTIVITY FOR THE SEVERITY OF MULTIPLE SCLEROSIS LESIONS -

Melief Jeroen^{*[1]}, de Wit Stella^[1], Swaab Dick^[1], Hoek Robert^[1], Koning Nathalie^[1], Huitinga Inge^[1]

^[1]Netherlands Institute for Neuroscience ~ Amsterdam ~ Netherlands

2 - MODULATION OF IMMUNE RESPONSES BY SLEEP THROUGH CD4+CD25+ REGULATORY T CELLS -

Bollinger Thomas^{*[1]}, Bollinger Annalena^[2], Dimitrov Stojan^[1], Lange Tanja^[1], Solbach Werner^[1]

^[1]University of Luebeck ~ Luebeck ~ Germany - ^[2]Research Center Borstel ~ Borstel ~ Germany

3- OPPOSITE CHANGES OF GLUTAMATE AND GABA TRANSMISSION IN THE STRIATUM OF MICE WITH EXPERIMENTAL AUTOIMMUNE ENCEPHALOMYELITIS -

Centonze Diego^{*[1]}, Rossi Silvia^[1], Muzio Luca^[2], De Chiara Valentina^[1], Musella Alessandra^[1], 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

4 - MICROGLIA/MACROPHAGES CELLS AFFECT THE ADULT NEURAL STEM CELL NICHES DURING EXPERIMENTAL AUTOIMMUNE ENCEPHALOMYELITIS -

Cavassini Francesca^{*[1]}, Porcheri Cristina^[1], Bergamaschi Andrea^[1], Muzio Luca^[1], Martino Gianvito^[1]

^[1]San Raffaele Scientific Institute ~ Milano ~ Italy

5 - HUMAN INTERLEUKIN-27: IMPACT ON CD8 T CELL FUNCTIONS AND LOCAL PRODUCTION IN THE CNS -

Schneider Raphael^{*[1]}, Yaneva Teodora^[1], Beauseigle Diane^[1], Jack Carolyn^[2], Arbour Nathalie^[1]

^[1]Research Center-CHUM, University of Montreal ~ Montreal ~ Canada - ^[2]McGill University ~ Montreal ~ Canada

6 - THE EXPRESSION OF NCS-1 IN LEUKOCYTES OF PATIENTS WITH SCHIZOPHRENIA AND BIPOLAR DISORDER -

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

ROOM E

15.45-17.15 **WORKSHOP: CNS INFLAMMATION**

Chairs: **H. Wiendl**

1 - SPECIFIC CNS RECRUITMENT AND SUPPRESSIVE FUNCTION OF HLA-G EXPRESSING REGULATORY T CELLS IN THE TARGET ORGAN OF PATIENTS WITH MULTIPLE SCLEROSIS -

Yu-Hwa Huang^{*[4]}, Christian Weidenfeller^[4], Alla. L. Zozulya^[4], Imke Metz^[3], Dorothea Buck^[4], Max-Philip Stenner^[4], Klaus V Toyka^[4], Wolfgang Brück^[3], Heinz Wiendl^[4]

^[3]Department of Neuropathology, Georg-August University Göttingen ~ Göttingen ~ Germany - ^[4]Department of Neurology, University Wuerzburg ~ Wuerzburg ~ Germany

2 - CYTOTOXIC HUMAN IL-22- AND IFN-GAMMA-EXPRESSING TH17 LYMPHOCYTES PROMOTE IMMUNE CELL MIGRATION INTO THE CENTRAL NERVOUS SYSTEM -

Kebir Hania^{*[1]}, Kreyborg Katharina^[2], Ifergan Igal^[1], Dodelet-Devillers Aurore^[1], Cayrol Romain^[1], Arbour Nathalie^[1], Becher Burkhard^[2], Prat Alexandre^[1]

^[1]CHUM-Notre-Dame Hospital ~ Montreal ~ Canada - ^[2]University of Zurich ~ Zurich ~ Switzerland

3 - TH17 CELLS INDUCE MICROGLIAL ACTIVATION WHICH IS ATTENUATED BY NEURONS THROUGH CD200 LIGAND-RECEPTOR INTERACTIONS -

Murphy Áine^{*[1]}, Mills Kingston^[3], Lynch Marina^[1]

^[1]Trinity College Institute of Neuroscience ~ Dublin ~ Ireland - ^[3]Department of Biochemistry and Immunology ~ Dublin ~ Ireland

4 - THE CENTRAL NERVOUS SYSTEM IS STILL SUSCEPTIBLE TO THE INFILTRATION OF MYELIN REACTIVE T CELLS DURING THE RECOVERY PHASE OF EXPERIMENTAL AUTOIMMUNE ENCEPHALOMYELITIS -

Kurt Baeten^{*[1]}, Jerome Hendriks^[1], Niels Hellings^[1], Bieke Broux^[1], Jan Gelan^[2], Peter Adriaensens^[2], Piet Stinissen^[1]

^[1]Hasselt University, Biomedical Research Institute ~ Diepenbeek ~ Belgium - ^[2]Hasselt University, Institute of Material Research ~ Diepenbeek ~ Belgium

5 - MULTI-COLOR FLOW CYTOMETRY OF CNS-INFILTRATING CELLS ALLOWS DETAILED MONITORING OF INFLAMMATION IN THE TARGET ORGAN -

Steinbach Karin^{*[1]}, Neumann Johannes^[1], Tolosa Eva^[1], Martin Roland^[1]

^[1]Institute for Neuroimmunology and Clinical MS-Research ~ Hamburg ~ Germany

BALLROOM

17.30-19.00 **POSTER VIEWING**



WEDNESDAY, OCTOBER 29

MORNING

ROOM A

PLENARY SESSION: EFFECTOR MECHANISMS

Chairs: **A. Sharpe, T. Yamamura**

08.30-09.10	Transcriptional regulation of inflammatory T cell differentiation	Dan Littman
09.10-09.50	Interplay of pathogenetic Th 17 and regulatory T cells in CNS autoimmunity	Vijay Kuchroo
09.50-10.20	COFFEE BREAK	
10.20-11.00	Role of PD-1, PD-L1 and their ligands in regulating T cell activation and tolerance	Arlene Sharpe
11.00-11.40	Orphan Nuclear Receptor NR4A2 and the inflammatory cascade in MS/EAE	Takashi Yamamura
11.45-12.45	LUNCH SYMPOSIUM-IMMUNO THERAPY: Rationale for the thymectomy trial in non-thymomatous myasthenias gravis	Gil Wolfe
11.45-12.45	ISNI MEMBERS GENERAL MEETING	

BALLROOM

11.30-13.15 **POSTERS & LUNCH**

POSTER SESSION: CNS INFLAMMATION, PATHOGENESIS AND REGULATORY MECHANISMS

1 - DEVELOPMENT OF ALTERNATIVELY ACTIVATED MACROPHAGES IN THE CNS OF CRYPTOCOCCUS NEOFORMANS-INFECTED MICE DEPENDS CRUCIALLY ON IL-4 OR IL-13 AND IS ASSOCIATED WITH UNCONTROLLED CNS INFECTION -

Werner Stenzel^{*[1]}, Müller Uwe^[2], Brombacher Frank^[2], Köhler Gabriele^[4], Alber Gottfried^[2]

^[1]University Hospital of Cologne ~ Cologne ~ Germany - ^[2]College of Veterinary Medicine ~ Leipzig ~ Germany - ^[3]Institute of Infectious Disease and Molecular Medicine ~ Capetown ~ South Africa - ^[4]University Hospital of Münster ~ Münster ~ Germany

2 - EMMPRIN-DEPENDENT MATRIX METALLOPROTEINASE INDUCTION EXAMINED IN MURINE EXPERIMENTAL AUTOIMMUNE ENCEPHALOMYELITIS (EAE) -

Agrawal Smriti^{*[1]}, Yong Wee^[1]

^[1]University of Calgary ~ Calgary ~ Canada

3 - CD8+ LYMPHOCYTE-MEDIATED INJURY OF CNS NEURONS: RELEVANCE OF GRANZYME B AND PERFORIN FOR ACUTE ELECTROPHYSIOLOGICAL CONSEQUENCES AND LONG-TERM NEUROTOXICITY -

Simon Ole J.^[1], Meuth Sven G.^[1], Herrmann Alexander M.^[1], Bittner Stefan^[1], Friedl Peter^[1], Budde Thomas^[2], Hünig Thomas^[1], Heckmann Manfred^[1], Wiendl Heinz^[1]

^[1]Julius-Maximilians-University ~ Würzburg ~ Germany - ^[2]Westfälische Wilhelms-University ~ Münster ~ Germany

4 - KININ RECEPTORS AGONISTS ATTENUATE NITRIC OXIDE PRODUCTION IN MICROGLIA -

Fleisher-Berkovich Sigal^{*[1]}, Ben-Shmuel Sarit^[1]

^[1]Ben-Gurion University ~ Beer-Sheva ~ Israel

5 - GENETIC INFLUENCE ON EXPRESSION OF COMPLEMENT SYSTEM COMPONENTS AFTER NERVE INJURY -

Lindblom Rickard^{*[1]}, Piehl Fredrik^[1], Diez Margarita^[1]

^[1]Karolinska Institutet ~ Stockholm ~ Sweden

6 - ROSIGLITAZONE ATTENUATES THE LPS-INDUCED INCREASE IN IL-1B VIA IL-4 RELEASE FROM ASTROCYTES -

Deighan Brian F.^{*[5]}, Griffin Rebecca^[5], Loane David J.^[4], Lynch Marina A.^[5]

^[4]Department of Neuroscience, Georgetown University Medical Centre ~ Washington DC ~ United States - ^[5]Trinity College Institute of Neuroscience, Trinity College Dublin, ~ Dublin ~ Ireland

7 - RECIPROCAL REGULATION OF ADENOSINE RECEPTOR EXPRESSION SENSITIZES ACTIVATED MICROGLIA TO ADENOSINE-MEDIATED INHIBITORY SIGNALS -

Van der Putten Céline^{*[4]}, Zuiderwijk-Sick Ella A.^[4], van Straalen Linda^[4], de Geus Eveline D.^[2], Boven Leonie A.^[2], Kondova Ivanela^[3], Ijzerman Ad P.^[5], Bajramovic Jeffrey J.^[4]

^[2]Department of Immunology, Erasmus MC ~ Rotterdam ~ Netherlands - ^[3]Animal Science Department, BPRC ~ Rijswijk ~ Netherlands - ^[4]Alternatives Unit, BPRC ~ Rijswijk ~ Netherlands - ^[5]Department of Pharmacology ~ Leiden/Amsterdam Center for Drug Research, Leiden ~ Netherlands

8 - MICRORNA PROFILES OF DIFFERENT TYPES OF MS LESIONS -

Junker Andreas^{*[4]}, Krumbholz Markus^[4], Eisele Sylvia^[4], Lassmann Hans^[3], Wekerle Hartmut^[5], Hohlfeld Reinhard^[4], Meinl Edgar^[4]

^[3]Center for Brain Research, Medical University of Vienna ~ Vienna ~ Austria - ^[4]Institute for Clinical Neuroimmunology, LMU ~ Munich ~ Germany - ^[5]Max-Planck Institute for Neurobiology ~ Munich ~ Germany

9 - PERCENTAGE OF REGULATORY T CELLS USED TO MONITOR INFLAMMATION IN THE CENTRAL NERVOUS SYSTEM IN COMPARISON TO SYSTEMIC CIRCULATION IN NEUROLOGICAL PATIENTS WITH INFECTION AND MULTIPLE SCLEROSIS -

Matsui Makoto^{*[1]}, Araya Shin-ichi^[1], Kitagawa Yoko^[1], Nakata Michiyo^[1]

^[1]Kanazawa Medical University ~ Uchinada ~ Japan

10 - THE INTERACTION OF SIGIRR AND IL-1F5; AN IMPORTANT NEUROMODULATORY SYSTEM -

Watson Melanie^{*[1]}, Lynch Marina^[1]

^[1]Trinity College Institute of Neuroscience ~ Dublin ~ Ireland

11 - CYTOKINE RELEASE BY MICROGLIA, ASTROCYTES, NEURONS AND A MIXED CULTURE IN A PNEUMOCOCCAL MENINGITIS CULTURE MODEL -

Al Jindan Reem^[1], Valley Pamela^[2], Klapper Paul^[3]

^[1]Reem Y Al Jindan ~ School of Translational Medicine, University of Manchester ~ United Kingdom - ^[2]Pamela Valley ~ School of Translational Medicine, University of Manchester ~ United Kingdom - ^[3]Paul Klapper ~ Clinical Virology, Central Manchester and Manchester Children's Hospital ~ United Kingdom

12 - DIFFERENTIATION OF PRIMARY ADULT MICROGLIA ALTERS THEIR RESPONSE TO TLR8-MEDIATED ACTIVATION BUT NOT THEIR CAPACITY AS APC -

Zuiderwijk-Sick Ella A.^[1], van der Putten Céline^[1], Bsibsi Malika^[2], Deuzing Ilona P.^[1], de Boer Willem^[1], Persoon-Deen Carla^[2], Boven Leonie A.^[3], van Noort Hans M.^[2], 't Hart Bert A.^[4], Amor Sandra^[4], Bajramovic Jeffrey J.^{*[1]}

^[1]Biomedical Primate Research Centre, Alternatives Unit ~ Rijswijk ~ Netherlands - ^[2]TNO Quality of Life ~ Leiden ~ Netherlands - ^[3]Erasmus University Rotterdam, Department of Immunology ~ Rotterdam ~ Netherlands - ^[4]Biomedical Primate Research Centre, Department of Immunobiology ~ Rijswijk ~ Netherlands

13 - IMMUNOREGULATORY ROLE FOR PERFORIN IN AN ANIMAL MODEL OF CD8+ T CELL-MEDIATED DEMYELINATING DISEASE -

Fournier Sylvie^{*[1]}, Estrada Jose^[1]

^[1]McGill University ~ Montreal ~ Canada

14 - DIABETIC KETOACIDOSIS IN MICE ELICITS A UNIQUE CYTOKINE RESPONSE BETWEEN SERUM AND BRAIN -

Close Taylor E.^{*[3]}, Rose Keeley L.^[3], Summers Kelly L.^[2], Rieder Michael J.^[3], Fraser Douglas D.^[3]

^[2]Lawson Health Research Institute ~ London, ON ~ Canada - ^[3]Children's Health Research Institute ~ London, ON ~ Canada

15 - AUTOANTIGEN PROCESSING IN THE CNS DURING AUTOIMMUNE INFLAMMATION -

Stoeckle Christina^{*[1]}, Hermann Martin^[1], Burster Timo^[2], Beck Alexander^[3], Weissert Robert^[1], Melms Arthur^[1], Tolosa Eva^[1]

^[1]Hertie Institute for Clinical Brain Research ~ Tuebingen ~ Germany - ^[2]University of Ulm ~ Ulm ~ Germany - ^[3]Panatecs ~ Tuebingen ~ Germany



16 - OLFACTORY AXOTOMY INDUCES AN EXPRESSION OF RAE-I AND THE RECRUITMENT OF IMMUNE CELLS INCLUDING NK CELLS IN THE OLFACTORY BULBS -

Oriane Cedile^{*[1]}, Natalia Popa^[1], Lucile Goda^[1], Jose Boucraut^[1]

^[1]CNRS UMR 6231 ~ Marseilles ~ France

17 - POTENTIAL IMMUNOREGULATORY ROLES OF PROGRAMMED CELL DEATH-1 LIGANDS IN HUMAN CENTRAL NERVOUS SYSTEM -

Pittet Camille^{*[3]}, Saikali Philippe^[2], Ifergan Igal^[3], Prat Alexandre^[3], Arbour Nathalie^[3]

^[2]Montreal Neurological Institute, McGill University ~ Montreal ~ Canada - ^[3]Research Center-CHUM, University of Montreal ~ Montreal ~ Canada

18 - TLR2 IS ESSENTIAL FOR THE DEVELOPMENT OF A SUCCESSFUL IMMUNE RESPONSE IN MURINE NEUROCYSTICERCOSIS -

Gundra Uma Mahesh^{*[1]}, Mishra Bibhuti Bhusan^[1], Wong Kondi^[2], Teale Judy M^[1]

^[1]University of Texas at San Antonio ~ San Antonio ~ United States - ^[2]Wilford Room Medical Center ~ San Antonio ~ United States

19 - MOLECULAR CHARACTERIZATION OF CENTRAL NERVOUS SYSTEM-DERIVED STIMULATORY AND INHIBITORY DENDRITIC CELLS -

Cretton Christine^[1], Biollaz Gregoire^[1], Hesske Lysann^[1], Püntener Ursula^[1], Reith Walter^[2], Fontana Adriano^[1], Suter Tobias^{*[1]}

^[1]University Hospital Zurich ~ Zurich ~ Switzerland - ^[2]University of Geneva Medical School ~ Geneva ~ Switzerland

20 - MYD88-DEFICIENCY IS ASSOCIATED WITH REDUCED DISEASE SEVERITY AND DECREASED TH1 INFLAMMATORY RESPONSE IN THE BRAIN DURING MURINE NEUROCYSTICERCOSIS -

Mishra Bibhuti^{*[1]}, Gundra Uma Mahesh^[1], Wong Kondi^[2], Teale Judy^[1]

^[1]University of Texas at San Antonio ~ San Antonio ~ United States - ^[2]Wilford Room Medical Center ~ San Antonio ~ United States

21 - ROLE OF PATHOGENIC T CELLS AND AUTOANTIBODIES IN RELAPSE AND PROGRESSION OF MYELIN OLIGODENDROCYTE GLYCOPROTEIN-INDUCED AUTOIMMUNE ENCEPHALOMYELITIS -

Matsumoto Yoh^{*[1]}, Kohyama Kuniko^[1], Hiraki Keiko^[1]

^[1]Tokyo Metropolitan Institute for Neuroscience ~ Tokyo ~ Japan

22 - TISSUE TRANSGLUTAMINASE IN MULTIPLE SCLEROSIS: A NOVEL THERAPEUTIC TARGET? -

Van Strien Miriam^{*[1]}, Drukarch Benjamin^[1], Binnekade Rob^[1], Bol John^[1], Brevé John^[1], van Dam Anne-Marie^[1]

^[1]VU University Medical Center, dept. Anatomy and Neurosciences ~ Amsterdam ~ Netherlands

23 - CD8+ T-CELLS IN INFLAMMATORY DEMYELINATING DISEASE -

Weiss Hanne^{*[1]}, Millward Jason^[1], Holst Peter^[2], Sørensen Maria Rathmann^[2], Owens Trevor^[1]

^[1]University of Southern Denmark ~ Odense ~ Denmark - ^[2]University of Copenhagen ~ Copenhagen ~ Denmark

24 - EVALUATION OF NEW THALIDOMIDE ANALOGUES WITH THERAPEUTIC POTENTIAL FOR MULTIPLE SCLEROSIS -

Karlik Stephen^{*[1]}, Contino-Pepin Christine^[2], Parat Audry^[2], Pucci Bernard^[2]

^[1]University of Western Ontario ~ London ~ Canada - ^[2]University of Avignon ~ Avignon ~ France

25 - EAE INDUCTION IN THE COMMON MARMOSET WITHOUT ADJUVANT -

Jagessar Anwar^{*[1]}, Kap Yolanda^[1], Heijmans Nicole^[1], van Driel Nikki^[1], Blezer Erwin^[2], Bauer Jan^[3], van den Elsen Peter^[4], 't Hart Bert^[1]

^[1]Biomedical Primate Research Centre ~ Rijswijk ~ Netherlands - ^[2]University Medical Center Utrecht ~ Utrecht ~ Netherlands - ^[3]Medical University of Vienna ~ Vienna ~ Austria - ^[4]VU University medical center ~ Amsterdam ~ Netherlands

26 - ENHANCED EXPERIMENTAL ALLERGIC ENCEPHALOMYELITIS IN IL-15 DEFICIENT MICE -

Karlik Stephen^[1], Rousseau Arielle^[1], Roscoe Wend^[1]

^[1]University of Western Ontario ~ London ~ Canada

27 - DISCREPANT OXYRADICAL PRODUCTION BY PHAGOCYTES FROM MARMOSETS AND RHESUS MONKEYS WITH DIFFERENTIAL ENCEPHALITIS PATHOLOGY -

Kap Yolanda^{*[1]}, van Driel Nikki^[1], Laman Jon^[2], 't Hart Bert^[1]

^[1]Biomedical Primate Research Centre ~ Rijswijk ~ Netherlands - ^[2]ErasmusMC ~ Rotterdam ~ Netherlands

28 - ROLE OF SEMA4D IN THE NEUROINFLAMMATION OF EXPERIMENTAL AUTOIMMUNE ENCEPHALOMYELITIS -

Okuno Tatsusada*^[2], Nakatsuji Yujji^[1], Sakoda Saburo^[1], Kumanogoh Atsushi^[2]

^[1]Department of Neurology, Osaka University Graduate School of Medicine ~ Suita ~ Japan - ^[2]Department of Immunopathology, Research Institute for Microbial Diseases, Osaka University ~ Suita ~ Japan

29 - IMAGING ACTIVATION: FRET-BASED CALCIUM BIOSENSORS IN T-LYMPHOCYTES -

Mues Marsilius*^[1], Mank Marco^[1], Griesbeck Oliver^[1], Oboardi Francesca^[1], Flügel Alexander^[1], Kurschus Florian^[1], Wekerle Hartmut^[1]

^[1]Max Planck Institute of Neurobiology ~ Martinsried ~ Germany

30 - THE ROLE OF IL-23 IN CD8-MEDIATED CNS INFLAMMATION -

Eisenring Maya*^[1], Hünig Thomas^[2], Becher Burkhard^[1]

^[1]Dept. Pathology, Inst. of Exp. Immunology, Neuroimmunology, Universitätsspital Zürich ~ Zürich ~ Switzerland - ^[2]Institut für Virologie und Immunbiologie, Universität Würzburg ~ Würzburg ~ Germany

31 - TOLL-LIKE RECEPTOR 2 KNOCKOUT MICE DEVELOP EAE IN RESPONSE TO STAPHYLOCOCCUS AUREUS PEPTIDOGLYCAN AND AUTOANTIGEN STIMULATION -

Chan Wing King^[3], Wolter Karina^[4], Voerman Jane S.A.^[2], Gutcher Ilona^[5], Kool Mirjam^[7], Lambrecht Bart N.^[7], Zähringer Ulrich^[8], Becher Burkhard^[5], Prinz Marco^[4], Laman Jon D.*^[3]

^[3]Department of Immunology, Erasmus MC - University Medical Center ~ Rotterdam ~ Netherlands - ^[4]Institute of Neuropathology, Georg-August-University ~ Göttingen ~ Germany - ^[5]Department of Neurology/Neuroimmunology Unit, Universitätsspital, University of Zurich ~ Zurich ~ Switzerland - ^[7]Department of Pulmonary Medicine, Erasmus MC - University Medical Center ~ Rotterdam ~ Netherlands - ^[8]Division of Immunochemistry, Research Center Borstel ~ Borstel ~ Netherlands

32 - LOSS OF NON-CANONICAL NFKB SIGNALLING IN ANTIGEN-PRESENTING CELLS ABORTS ADAPTIVE IMMUNITY -

Hofmann Janin*^[1], Greter Melanie^[1], Becher Burkhard^[1]

^[1]Neuroimmunology ~ University Zürich ~ Switzerland

33 - THE TREATMENT WITH SELECTIVE PHOSPHODIESTERASE-3 INHIBITOR CILOSTAZOL FOR EXPERIMENTAL AUTOIMMUNE ENCEPHALOMYELITIS -

Miyamoto Katsuichi*^[1], Kureshiro Juri^[1], Kusunoki Susumu^[1]

^[1]Kindai University School of Medicine ~ Osaka-Sayama ~ Japan

34 - IL-17-PRODUCING GAMMA DELTA T CELLS INFILTRATE THE CNS DURING THE COURSE OF EXPERIMENTAL AUTOIMMUNE ENCEPHALOMYELITIS -

Lalor Stephen*^[2], Murphy Aine^[2], Sutton Caroline^[2], Lynch Marina^[3], Mills Kingston H.G.^[2]

^[2]Immune Regulation Research Group, Trinity College ~ Dublin ~ Ireland - ^[3]Institute of Neuroscience, Trinity College ~ Dublin ~ Ireland

35 - THE HEPATIC RESPONSE IN MULTIPLE SCLEROSIS -

Mardiguan Silvy*^[1], Campbell Sandra^[1], Glabinski Andrzej^[2], Anthony Daniel^[1]

^[1]University of Oxford ~ Oxford ~ United Kingdom - ^[2]Medical University of Lodz ~ Lodz ~ Poland

36- ANTENATAL EXPOSURE OF MARMOSETS TO DEXAMETHASONE AGGRAVATES AUTOIMMUNE ENCEPHALOMYELITIS INDUCED AT ADULT AGE -

† Hart Bert*^[1], Jagessar Anwar^[1], Kap Yolanda^[1], Blezer Erwin^[2], Laman Jon^[3], Bauer Jan^[4], Schlumborn Christina^[5], Fuchs Eberhard^[5], Brok Herbert^[1]

^[1]Biomedical Primate Research Centre ~ Rijswijk ~ Netherlands - ^[2]Image Sciences Institute ~ Utrecht ~ Netherlands -

^[3]Erasmus Medical Center ~ Rotterdam ~ Netherlands - ^[4]Medical University ~ Vienna ~ Austria - ^[5]German Primate Center ~ Göttingen ~ Germany

37 - SUPPRESSION OF EAE BY SIMVASTATIN IN WISTAR RATS IS ASSOCIATED WITH UP-REGULATION OF P53 AND TGF-B AND DOWN-REGULATION OF TNF-A -

MA Cun Gen^[1], DUAN Da Zhi^[1], JI Ning^[1], YU Jie Zhong*^[1], Sun Yong Sheng^[1], Fan Hong Cui^[1], LIANG Li Yun^[1]

^[1]Shanxi Datong University ~ Da Tong ~ China

38 - ANTI-MBP T CELLS CAUSE HIPPOCAMPAL NEURONS INJURY -

Kurkowska - Jastrzebska Iwona^[1], Zaremba Malgorzata, Magdalena*^[2], Zaremba Malgorzata^[3], Czlonkowska Anna^[1], Oderfeld - Nowak Barbara^[3]

^[1]Institute of Psychiatry and Neurology ~ Warsaw ~ Poland - ^[2]Medical University of Warsaw ~ Warsaw ~ Poland - ^[3]Nencki Institute of Neurobiology ~ Warsaw ~ Poland



39 - GENE SILENCING IN ENCEPHALITOGENIC T CELLS BY RNAI ALLOWS NEW INSIGHT INTO GLUCOCORTICOID THERAPY OF EAE -

Tischner Denise^{*[1]}, van den Brandt Jens^[1], Herold Marco^[2], Reichardt Holger^[1]

^[1]Institute for cellular and molecular immunology ~ Goettingen ~ Germany - ^[2]Institute for Virology and Immunobiology ~ Wuerzburg ~ Germany

40 - GENE EXPRESSION IN ACUTE AND CHRONIC MOUSE MODELS OF EAE -

Karlik Stephen^{*[1]}, Carter David^[2], Roscoe Wendt^[1]

^[1]University of Western Ontario ~ London ~ Canada - ^[2]Robarts Research Institute ~ London ~ Canada

41 - DEFINING AUTOREACTIVE ENCEPHALITOGENIC T CELLS -

Yang Yuhong^{*[1]}, Weiner Jeff^[1], Liu Yue^[1], Racke Michael^[1], Lovett-Racke Amy^[1]

^[1]Ohio state university medical center ~ Columbus ~ United States

42 - THE ROLE AND FUNCTION OF IL-23R ENGAGEMENT DURING THE DEVELOPMENT OF AUTOIMMUNE INFLAMMATION WITHIN THE CNS -

Gyölvézi Gabor^{*[1]}, Haak Stefan^[2], Buch Thorsten^[3], Becher Burkhard^[4]

^[1]University Hospital of Zurich ~ Zurich ~ Switzerland - ^[2]University Hospital of Zurich ~ Zurich ~ Switzerland - ^[3]University Hospital of Zurich ~ Zurich ~ Switzerland - ^[4]University Hospital of Zurich ~ Zurich ~ Switzerland

43 - SYNTHETIC RETINOID AM80 AMELIORATES EAE BY ATTENUATING TH17-MEDIATED INFLAMMATION -

Klemann Christian^{*[1]}, Oki Shinji^[1], Klemann Anna K.^[1], Ozawa Tomoko^[1], Doi Yoshimitsu^[1], Shudo Koichi^[2], Yamamura Takashi^[1]

^[1]National Institute of Neuroscience, NCNP ~ Tokyo ~ Japan - ^[2]Research Foundation ITSUU Laboratory ~ Tokyo ~ Japan

44 - INTRACEREBRAL DENDRITIC CELLS CRITICALLY MODULATE ENCEPHALITOGENIC VERSUS REGULATORY IMMUNE RESPONSES -

Zozulya Alla L.^[3], Ortler Sonja^{*[3]}, Lee JangEun^[2], Weidenfeller Christian^[3], Sandor Matyas^[2], Wiendl Heinz^[3], Fabry Zsuzsanna^[2]

^[2]Department of Pathology and Laboratory Medicine, University of Wisconsin-Madison ~ Madison ~ United States - ^[3]Department of Neurology, University of Wuerzburg ~ Wuerzburg ~ Germany

45 - IL-17A AND F ARE EXPRESSED BY ENCEPHALITOGENIC TH17 CELLS WHILE THEIR FUNCTION IN CNS INFLAMMATION IS REDUNDANT -

Haak Stefan^{*[2]}, Croxford Andy^[3], Kreyborg Katharina^[2], Heppner Frank L.^[4], Pouly Sandrine^[5], Waisman Ari^[3], Becher Burkhard^[2]

^[2]Neuroimmunology Unit, Department of Pathology, University Hospital Zurich ~ Zürich ~ Switzerland - ^[3]Ist Medical Department, University of Mainz ~ Mainz ~ Germany - ^[4]Department of Neuropathology, Charité - University Berlin ~ Berlin ~ Germany - ^[5]Merck Serono International S.A. ~ Geneva ~ Switzerland

46 - DISSECTION OF THE CELL-SPECIFIC FUNCTIONS OF NF-KB IN EXPERIMENTAL AUTOIMMUNE ENCEPHALOMYELITIS -

Emmanouil Mary^{*[1]}, Taoufik Era^[1], Tseveleki Vivian^[1], Tselios Theodore^[2], Karin Michael^[3], Lassmann Hans^[4], Probert Lesley^[1]

^[1]Hellenic Pasteur Institute ~ Athens ~ Greece - ^[2]University of Patras ~ Patras ~ Greece - ^[3]University of California ~ San Diego, CA ~ United States - ^[4]Brain Research Institute ~ Vienna ~ Austria

47 - GM-CSF AND THE GM-CSF RECEPTOR PLAY A CRUCIAL ROLE IN THE REGULATION OF EAE -

Hesske Lysann^{*[1]}, Fontana Adriano^[1], Suter Tobias^[1]

^[1]University Hospital Zurich ~ Zurich ~ Switzerland

48 - INTRAVITAL 2-PHOTON IMAGING OF AUTOREACTIVE EFFECTOR T CELLS INVADING THE CNS IN THE INITIAL PHASE OF EXPERIMENTAL AUTOIMMUNE ENCEPHALOMYELITIS -

Kawakami Naoto^{*[1]}, Odoardi Francesca^[1], Bartholomaeus Ingo^[1], Wekerle Hartmut^[1], Fluegel Alexander^[1]

^[1]Department of Neuroimmunology, Max Planck Institute for Neurobiology ~ Martinsried ~ Germany

49 - MECHANISMS BY WHICH TOLL LIKE RECEPTORS EXACERBATE OR MODULATE DISEASE SEVERITY IN EXPERIMENTAL AUTOIMMUNE ENCEPHALOMYELITIS -

O'Brien Kate^{*[1]}, Gran Bruno^[1]

^[1]University of Nottingham ~ Nottingham ~ United Kingdom

50 - A FLOW CYTOMETRIC APPROACH IN THE CHARACTERIZATION OF ACTIVELY INDUCED EAE IN LEWIS RAT -

Rigolio Roberta^{*[1]}, Biffi Alessandro^[1], Oggioni Norberto^[1], Cavaletti Guido^[1]

^[1]Università degli Studi Milano-Bicocca ~ Monza ~ Italy

51 - MMP-12 IS BENEFICIAL IN A MODEL OF MS THROUGH MODULATION OF CYTOKINES, CHEMOKINES AND OSTEOPONTIN -

Goncalves DaSilva Angelika*^[1], Yong Voon Wee^[1]

^[1]Univeristy of Calgary ~ Calgary ~ Canada

52 - THERAPEUTIC EFFECT OF THE ALKYL-LYSOPHOSPHOLIPID EDELFOSE ON IMMUNE CELL ACTIVATION ON EXPERIMENTAL AUTOIMMUNE ENCEPHALITIS -

Abramowski Pierre*^[1], Steinbach Karin^[1], Ayuk Francis A.^[2], Martin Roland^[1], Zander Axel R.^[2]

^[1]Institute for Neuroimmunology and Clinical MS Research ~ Hamburg ~ Germany - ^[2]Department of Oncology/Hematology, University Hospital Eppendorf ~ Hamburg ~ Germany

53 - HEAT SHOCK PROTEINS AS AN IMPORTANT REGULATORS OF AUTOIMMUNE DEMYELINATION -

Mycko Marcin*^[1], Cwiklinska Hanna^[2], Walczak Agata^[4], Szymanska Bozena^[8], Raine Cedric S.^[9], Selmaj Krzysztof^[10]

^[1]Laboratory of Neuroimmunology, Department of Neurology ~ Medical University of Lodz ~ Poland - ^[3]Laboratory of Neuroimmunology, Department of Neurology ~ Medical University of Lodz ~ Poland - ^[4]Laboratory of Neuroimmunology, Department of Neurology ~ Medical University of Lodz ~ Poland - ^[8]Laboratory of Neuroimmunology, Department of Neurology ~ Medical University of Lodz ~ Poland - ^[9]Department of Pathology ~ Albert Einstein College of Medicine, Bronx, NY ~ United States - ^[10]Laboratory of Neuroimmunology, Department of Neurology ~ Medical University of Lodz ~ Poland

54 - DIFFERENTIAL ROLES OF TH1 AND TH17 CD4+ T CELL SUBSETS IN THE PATHOGENESIS OF EAE -

Domingues Helena Sofia*^[1], Krishnamoorthy Gurumoorthy^[1], Lassmann Hans^[2], Wekerle Hartmut^[1]

^[1]Department of Neuroimmunology, Max-Planck-Institute of Neurobiology ~ Martinsried ~ Germany - ^[2]Institute of Neurology, University of Vienna ~ Vienna ~ Austria

55 - DEFINING THE ROLE OF IL-23 IN THE DIFFERENTIATION OF ENCEPHALITOGENIC T CELLS -

Smith Alan J.*^[2], Yang Yuhong^[2], Weiner Jeffrey^[2], Racke Michael K.^[2], Lovett-Racke Amy E.^[2]

^[2]Ohio State University ~ Columbus ~ United States

56 - BOTH BLOOD-DERIVED AND CNS-DERIVED APC CONTRIBUTE TO ANTIGEN PRESENTATION DURING THE EFFECTOR PHASE OF EAE -

Suter Tobias*^[1], LeibundGut-Landmann Salomé^[2], Irla Magali^[2], Adriano Fontana^[1], Reith Walter^[2]

^[1]University Hospital Zurich ~ Zurich ~ Switzerland - ^[2]University of Geneva Medical School ~ Geneva ~ Switzerland

57 - PI3K-GAMMA: DEVELOPING IMMUNE TARGETS FOR THE TREATMENT OF MULTIPLE SCLEROSIS -

Smith Kristen*^[1], Gatson Na Tasha^[1], Williams Jessica^[1], Kithcart Aaron^[1], Mavrikis Gina^[1], Song Fei^[1], Satoskar Abhay^[1], Whitacre Caroline C.^[1]

^[1]The Ohio State University ~ Columbus ~ United States

58 - THE DOMINANCY OF ENCEPHALITOGENIC PEPTIDE CORRELATES TO ITS ABILITY TO INDUCE POTENT REGULATORY T CELLS -

Lin Youwei*^[1], Miyake Sachiko^[1], Yamamura Takashi^[1]

^[1]National Institute of Neuroscience, NCNP ~ Tokyo ~ Japan

59 - PREGNANCY MODULATES ONGOING EXPERIMENTAL AUTOIMMUNE ENCEPHALOMYELITIS (EAE) INDUCED BY TH1 AND TH17 CELLS -

Song Fei*^[1], Gienapp Ingrid^[1], Shawler Todd^[1], Williams Jessica^[1], Smith Kristen^[1], Kithcart Aaron^[1], Whitacre Caroline C.^[1]

^[1]The Ohio State University ~ Columbus ~ United States

60 - KINETIC AND CYTOKINE PROFILE OF CD4+FOXP3+ REGULATORY T CELLS IN PERIPHERAL LYMPHOID ORGANS AND CNS DURING THE COURSE OF RELAPSING EXPERIMENTAL AUTOIMMUNE ENCEPHALOMYELITIS -

Esposito Marianna*^[1], Borsellino Giovanna^[2], Bergami Alessandra^[1], Ruffini Francesca^[1], Martino Gianvito*^[1], Battistini Luca^[2], Furlan Roberto^[1]

^[1]San Raffaele Scientific Institute ~ Milano ~ Italy - ^[2]Centro Europeo per la Ricerca sul Cervello (CERC)/Fondazione Santa Lucia ~ Roma ~ Italy

61 - LIVER X RECEPTOR AGONIST T0901317 AMELIORATES EXPERIMENTAL AUTOIMMUNE ENCEPHALOMYELITIS THROUGH SUPPRESSING IL-17 PRODUCTION -

Xu Jihong*^[1], Drew Paul^[1]

^[1]University of Arkansas for Medical Sciences ~ Little rock ~ United States

62 - GENERATION OF FUNCTIONAL MOUSE PLASMACYTOID DENDRITIC CELLS DEPENDS ON CD28 AND NOT ON IL-17 -

Gaupp Stefanie^{*[1]}, Seubert Silvia^[1], Lühder Fred^[6], Selmaj Krzysztof^[7], Gold Ralf^[1]

^[1]St. Josef-Hospital Ruhr-University Bochum ~ Bochum ~ Germany - ^[6]Institute for Multiple Sclerosis Research, University of Goettingen and Gemeinnuetzige Hertie-Stiftung ~ Goettingen ~ Germany - ^[7]Medical University of Lodz ~ Lodz ~ Poland

63 - ANTI-INFLAMMATORY ACTIVITY OF AN OSTEOPONTIN-LIKE PROTEIN IN EXPERIMENTAL AUTOIMMUNE ENCEPHALOMYELITIS -

Muzio Valeria^{*[1]}, Adage Tiziana^[1], Dati Gabriele^[1], Cirillo Rocco^[1], Gréco Béatrice^[1], Zarin Paola Francesca^[1]

^[1]Merck Serono International S.A. ~ Turin ~ Italy

64 - THE ROLE OF TGF-BETA SIGNALING CELLS IN THE PATHOGENESIS OF EXPERIMENTAL AUTOIMMUNE ENCEPHALOMYELITIS -

Ding Zhaoqing^{*[2]}, Luo Jian^[2], Wyss-Coray Tony^[2]

- ^[2]Department of Neurology and Neurological Sciences, Stanford University School of Medicine ~ Stanford, CA 94305 ~ United States

65 - DIFFERENTIATION OF PRIMARY ADULT MICROGLIA ON GM-CSF/IL-4 LEADS TO A BLOCK IN TOLL-LIKE RECEPTOR-MEDIATED RESPONSES -

Zuiderwijk-Sick Ella A.^[1], van der Putten Céline^[1], Pasini Erica M.^[2], van Straalen Linda^[1], Kondova Ivanela^[3], Bajramovic Jeffrey J.^{*[1]}

- ^[1]Biomedical Primate Research Centre, Alternatives Unit ~ Rijswijk ~ Netherlands - ^[2]Biomedical Primate Research Centre, Department of Parasitology ~ Rijswijk ~ Netherlands - ^[3]Biomedical Primate Research Centre, Animal Science Department ~ Rijswijk ~ Netherlands

66 - MOLECULAR MIMICRY BETWEEN NEURONS AND AN INTRACEREBRAL PATHOGEN INDUCES A CD8 T CELL-MEDIATED AUTOIMMUNE DISEASE -

Sanchez-Ruiz Monica^[2], Wilden Laura, Müller Werner^[3], Stenzel Werner^[4], Brunn Anna^[2], Miletic Hrvoje^[2], Schlüter Dirk^[5], Deckert Martina^{*[2]}

- ^[2]Abteilung für Neuropathologie, Universitätsklinikum Köln ~ Köln ~ Germany - ^[3]Helmholtz Zentrum für Infektionsforschung ~ Braunschweig ~ Germany - ^[4]Abteilung für Neuropathologie, Universitätsklinikum Köln ~ Köln ~ Germany - ^[5]Institut für Medizinische Mikrobiologie, OvG Universität Magdeburg ~ Magdeburg ~ Germany

67 - PI3K/PKB AND MEK/ERK SIGNALING PATHWAYS MEDIATE NCS-1 EXPRESSION IN LYMPHOCYTES -

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

- ^[1]UFMG ~ Belo Horizonte ~ Brazil

68 - CHEMOKINE-DRIVEN MOLECULAR CASCADE ORCHESTRATES INJURY AND REPAIR IN THE MPTP MOUSE MODEL OF BASAL GANGLIA INJURY: THE CHIEF INSTRUCTIVE ROLE OF WNT AND CONCERTED GLIA-NEURON CROSS-TALK -

L'Episcopo Francesca^[1], Morale Maria Concetta^[1], Giuliana Salani^[2], Luciana Andreoni^[3], Diego Franciotta^[3], Stefano Pluchino^[2], Gian Vito Martino^[2], Bianca Marchetti^{*[3]}

- ^[1]Neuropharmacology, OASI Institute ~ Troina (EN) ~ Italy - ^[2]Neuroimmunology Unit, DIBIT and Institute of Experimental Neurology (InSpe), San Raffaele Scientific Institute ~ Milano ~ Italy - ^[3]Laboratory of Neuroimmunology, Neurological Institute "C. Mondino", University of Pavia ~ Pavia ~ Italy

69 - INHIBITION OF SPINAL MICROGLIOSIS ATTENUATES NERVE INJURY INDUCED-HYPERSENSITIVITY -

Stefania Echeverry^{*}, Xiang Qun Shi, Ji Zhang

The Alan Edwards Centre for Research on Pain, McGill University, Montreal, QC, Canada

70 - THE ROLE OF THE CHEMOKINE KC IN THE PATHOGENESIS OF GLOBOID CELL LEUKODYSTROPHY -

Reddy Adarsh^{*}, Klein Robyn^{*}, Mark Sands^{*}

Washington University School of Medicine, St. Louis, United States

POSTER SESSION: STEMS CELLS, IMMUNE PATHOGENESIS AND NEUROPROTECTION**1 - INVOLVEMENT OF TH1 AND TH17 PATHWAYS IN CHRONIC INFLAMMATORY DEMYELINATING POLYNEUROPATHY -**

Madia Francesca^{*[1]}, Frisullo Giovanni^[1], Nociti Viviana^[1], Luigetti Marco^[1], Conti Amelia^[1], Patanella Agata Katia^[1], Iorio Raffaele^[1], Tonalì Pietro^[1], Sabatelli Mario^[1], Batocchi Anna Paola^[1]

^[1]Policlinico A Gemelli ~ Roma ~ Italy

2 - DIFFERENTIAL EARLY GENE EXPRESSION IN CULTURES OF CENTRAL NERVOUS SYSTEM NEURONS INDUCED BY TH1 AND TH2 LYMPHOCYTE AND MONOCYTE/MACROPHAGE CYTOKINES -

Lisak Robert^{*[2]}, Benjamins JA^[2], Nedelkoska L^[2], Bealmer B^[2], Xu W^[2]

^[2]Wayne State University ~ Detroit, Michigan ~ United States

3 - EXPANDED CD8+ T CELL CLONES DOMINATE BRAIN INFILTRATES IN RASMUSSEN'S ENCEPHALITIS AND SHOW LONG-TERM PERSISTENCE IN THE PERIPHERY -

Schwab Nicholas^{*[1]}, Bien Christian^[2], Waschbisch Anne^[1], Becker Albert^[3], Dornmair Klaus^[4], Wiendl Heinz^[1]

^[1]Clinical Research Group for Multiple Sclerosis and Neuroimmunology ~ Würzburg ~ Germany - ^[2]Department of Epileptology ~ Bonn ~ Germany - ^[3]Department of Neuropathology ~ Bonn ~ Germany - ^[4]Institute for Clinical Neuroimmunology ~ München ~ Germany

4 - AXONAL LOSS AND GREY MATTER PATHOLOGY AS A DIRECT RESULT OF AUTOIMMUNITY TO NEUROFILAMENTS -

Huizinga Ruth^[1], Gerritsen Wouter^[2], Heijmans Nicole^[3], Amor Sandra^{*[2]}

^[1]Department of Immunology, Erasmus MC, University Medical Center, ~ Rotterdam ~ Netherlands - ^[2]Department of Pathology, MS Center, VU University Medical Center ~ Amsterdam, ~ Netherlands - ^[3]Department of Immunobiology, Biomedical Primate Research Centre ~ Rijswijk, ~ Netherlands

5 - REQUIREMENT OF MYELOID CELLS FOR AXON REGENERATION -

Benoit Barrette^[1], Nicolas Vallières^[1], Nadia Fortin^[1], Jean-Pierre Julien^[1], Steve Lacroix^{*[1]}

^[1]Laval University and CHUL Research Center ~ Quebec City ~ Canada

6 - TYPE 1-TYPE 2 CYTOKINES PATTERNS IN CHRONIC DYSIMMUNE POLYNEUROPATHIES -

Gironi Maira^{*[1]}, Saressella Marina^[1], Marventano Ivana^[1], Guerini Franca Rosa^[1], Antonini g^[2], Ceresa Lara^[1], Marino S^[2], Beghi Ettore^[3], Clerici Mario^[4], Nemni Raffaello^[4]

^[1]Don C. Gnocchi ONLUS Foundation IRCCS ~ Milano ~ Italy - ^[2]University of Rome ~ Roma ~ Italy - ^[3]Mario Negri Institute ~ Milano ~ Italy - ^[4]Don C. Gnocchi ONLUS Foundation IRCCS University of Milan ~ Milano ~ Italy

7 - GRANZYME B-INHIBITS HUMAN NEUROGENESIS VIA GI-COUPLED RECEPTOR AND SUBSEQUENT KVI.3 CHANNEL ACTIVATION -

Wang Tongguang^{*[1]}, Hu Lina^[1], Johnson Tory^[1], Haughey Norman^[1], Calabresi Peter^[1], Nath Avindra^[1]

^[1]Johns Hopkins University ~ Baltimore ~ United States

8 - IDENTIFICATION OF HEME OXYGENASE-I AS A NOVEL TARGET OF NEUROPROTECTION BY MINOCYCLINE IN HUMAN NEURONS -

Liu Shuhong^{*[1]}, Xue Mengzhou^[1], Yong V. Wee^[1]

^[1]University of Calgary ~ Calgary ~ Canada

9 - INHIBITORY EFFECTS OF 17B-ESTRADIOL ON PRODUCTION OF BOTH MOLECULAR AND CELLULAR FACTORS IN NEUROINFLAMMATORY REACTION IN MALE MICE FOLLOWING MPTP INTOXICATION -

Ciesielska Agnieszka^{*[2]}, Joniec Ilona^[2], Cudna Agnieszka^[2], Kurkowska-Jastrzebska Iwona^[1], Zaremba Malgorzata^[2], Czlonkowska Anna^[1], Czlonkowski Andrzej^[2]

^[1]Institute of Psychiatry and Neurology ~ Warsaw ~ Poland - ^[2]Medical University of Warsaw ~ Warsaw ~ Poland

10 - CHARACTERIZATION OF LYSOLECITHIN-INDUCED DEMYELINATION, WITH A FOCUS ON THE EARLY INFLAMMATORY RESPONSES AND THEIR POSSIBLE ROLES -

Döring Axinia^{*[1]}, Yong V. Wee^[1]

^[1]Hotchkiss Brain Institute, University of Calgary ~ Calgary ~ Canada

11 - TREATMENT OF AN ANIMAL MODEL FOR MULTIPLE SCLEROSIS WITH RESVERATROL, A NATURAL COMPOUND IN RED WINE -

Tsunoda Ikuo^{*[1]}, Rose John W.^[2], Rojas Monica^[1], Hasanovic Faris^[1], Carlson Noel G.^[2]

^[1]University of Utah ~ Salt Lake City ~ United States - ^[2]Veterans Affairs Salt Lake City Health Care System ~ Salt Lake City ~ United States

12 - 17B-ESTRADIOL ADMINISTRATION PROTECTS AGAINST DOPAMINE DEPLETION, DOWN-REGULATES ASTROGLIAL ACTIVATION AND MODULATES CYTOKINE PRODUCTION IN THE NIGRO-STRIATAL SYSTEM IN FEMALE MICE FOLLOWING TOXIC DEGENERATION CAUSED BY MPTP -

Joniec Ilona^[1], Ciesielska Agnieszka^[1], Cudna Agnieszka^[1], Zaremba Malgorzata^[1], Kurkowska-Jastrzebska Iwona^[2], Czlonkowska Anna^[2], Czlonkowski Andrzej^[1]*

^[1]Medical University of Warsaw ~ Warsaw ~ Poland - ^[2]Institute of Psychiatry and Neurology ~ Warsaw ~ Poland

13- ESSENTIAL ROLE FOR MYELOID DERIVED CELLS IN THE RECOVERY FROM SPINAL CORD INJURY -

London Anat^[1], Shechter Ravid^[1], Varol Chen^[1], Cusimano Melania^[2], Rolls Asya^[1], Pluchino Stefano^[2], Martino Gianvito^[2], Jung Steffen^[1], Schwartz Michal^[1]*

^[1]Weizmann Institute of Science ~ Rehovot ~ Israel - ^[2]San Raffaele Scientific Institute ~ Milan ~ Italy

14 - ORAL FINGOLIMOD (FTY720) SUPPRESSES ESTABLISHED EAE AND ALLOWS REMYELINATION -

Schubart Anna^[1], Seabrook Tim^[1], Rausch Martin^[1], Mir Anis^[1]*

^[1]Novartis Institutes of BioMedical Research ~ Basel ~ Switzerland

15 - NEUROPROTECTIVE AND IMMUNOMODULATORY EFFECTS OF LEUKEMIA INHIBITORY FACTOR DURING NEUROINFLAMMATORY RESPONSES IN MULTIPLE SCLEROSIS -

Slaets Helena Stefanie Elisabeth^[1], Hendriks Jerome^[1], Carmans Sofie^[1], Stinissen Pieter^[1], Hellings Niels^[1]*

^[1]Hasselt University ~ Diepenbeek ~ Belgium

16 - MICROGLIA/MACROPHAGE-INDUCED NEUROTOXICITY IS MEDIATED BY GLUTAMATE AND ATTENUATED BY GLUTAMINASE INHIBITORS AND GAP JUNCTION INHIBITORS -

Harada Yohei^[1], Yawata Izumi^[1], Takeuchi Hideyuki^[1], Sonobe Yoshifumi^[1], Jin Shijie^[1], Doi Yukiko^[1], Liang Jianfeng^[1], Kawanokuchi Jun^[1], Mizuno Tetsuya^[1], Suzumura Akio^[1]*

^[1]Nagoya University ~ Nagoya ~ Japan

17 - PHENOTYPIC AND FUNCTIONAL FEATURES OF CNS CD8+ T CELLS MEDIATING A DEMYELINATING DISEASE -

N'Diaye Marie^[1], Fournier Sylvie^[1]*

^[1]McGill University ~ Montreal ~ Canada

18 - IMMUNE REGULATORY NEURAL STEM/PRECURSOR CELLS RESTRAIN DENDRITIC CELL FUNCTION IN SECONDARY LYMPHOID ORGANS VIA A BMP-4-DEPENDENT MECHANISM -

Zanotti Lucia^[1], Rovere-Querini Patrizia^[1], Capobianco Annalisa^[1], Alfaro-Cervello Clara^[2], Borsellino Giovanna^[3], Battistini Luca^[3], Garcia-Verdugo Jose Manuel^[2], Manfredi Angelo^[1], Martino Gianvito^[1], Pluchino Stefano^[1]*

^[1]San Raffaele Scientific Institute ~ Milano ~ Italy - ^[2]University of Valencia ~ Valencia ~ Spain - ^[3]IRCCS Santa Lucia ~ Rome ~ Italy

19 - NEURAL STEM/PRECURSOR CELL (NPC) TRANSPLANTATION IN MICE WITH EXPERIMENTAL CEREBRAL ISCHEMIC STROKE: A STUDY ON NEURORESTORATION AND NEUROPROTECTION -

Bacigaluppi Marco^[1], Pluchino Stefano^[1], Peruzzotti Jametti Luca^[1], Kilic Ertugrul^[2], Comi Giancarlo^[1], Hermann Dirk^[2], Martino Gianvito^[1]*

^[1]San Raffaele Scientific Institute ~ Milano ~ Italy - ^[2]University Hospital Zurich (UHZ) ~ Zurich ~ Switzerland

20- IMMUNOREGULATORY PROPERTIES OF NEURAL PRECURSOR CELLS : IN VITRO CHARACTERIZATION -

Bonnamain Virginie^[1], Michel Delphine^[1], Nerrière Daguin Véronique^[1], Thinard Reynald^[1], Dugast Anne-Sophie^[1], Brachet Philippe^[1], Anegón Ignacio^[1], Vanhove Bernard^[1], Neveu Isabelle^[1], Naveilhan Philippe^[1]*

^[1]INSERM U643 ~ Nantes ~ France

21 - MSCS-DCS INTERACTIONS: AN INTIMATE CELL-CELL CONTACT -

Aldinucci Alessandra^[1], Biagioli Tiziana^[1], Pieri Laura^[2], Romagnoli Paolo^[2], Mazzanti Benedetta^[3], Saccardi Riccardo^[3], Massacesi Luca^[1], Ballerini Clara^[1]*

^[1]Department of Neurological Sciences ~ Florence ~ Italy - ^[2]Department of Anatomy, Histology and Forensic Medicine ~ Florence ~ Italy - ^[3]Department of Hematology ~ Florence ~ Italy

22 - IDENTIFICATION OF MOLECULAR PATHWAYS INVOLVED IN THERAPEUTIC EFFECT OF MESENCHYMAL STEM CELLS -

Casazza Simona^[1], Uccelli Antonio^[3], Mancardi Gianluigi^[2], Oksenberg Jorge^[1], Baranzini Sergio^[1]*

^[1]Department of Neurology, School of Medicine, University of California, San Francisco ~ San Francisco ~ United States -

^[2]Neuroimmunology Unit, Department of Neurosciences, Ophthalmology and Genetics, University of Genoa ~ Genoa ~ Italy

- ^[3]Neuroimmunology Unit, Department of Neurosciences, Ophthalmology and Genetics, University of Genoa ~ Genoa ~ Italy

23 - MURINE MESENCHYMAL STEM CELLS INHIBIT DIFFERENTIATION AND FUNCTION OF BONE MARROW DENDRITIC CELLS BY IMPAIRING OF ANTIGEN PROCESSING MACHINERY COMPONENTS AND TOLL LIKE RECEPTOR SIGNALING -*Chiesa Sabrina*^[1], Traggiai Elisabetta^[2], Morando Sara^[3], Uccelli Antonio^[4]*^[1]Department of Neuroscience Ophthalmology and Genetic ~ Genoa ~ Italy - ^[2]Institute G.Gaslini ~ Genoa ~ Italy -^[3]Department of Neuroscience Ophthalmology and Genetic ~ Genoa ~ Italy - ^[4]Department of Neuroscience Ophthalmology and Genetic ~ Genoa ~ Italy**24 - MESENCHYMAL STEM CELLS REDUCE METALLOTHIONEIN UP-REGULATION AND OXIDATIVE STRESS IN A RODENT MODEL OF MULTIPLE SCLEROSIS -***Lanza Cristina*^[1], Voci Adriana^[1], Canesi Laura^[1], Morando Sara^[2], Principato Maria Cristina^[2], Uccelli Antonio^[2], Vergani Laura^[1]*^[1]Department of Biology - University of Genoa ~ Genoa ~ Italy - ^[2]Department of Neurosciences, Ophthalmology and Genetics, University of Genoa ~ Genoa ~ Italy**25 - RECIPROCAL INTERACTIONS BETWEEN HUMAN MESENCHYMAL STEM CELLS AND UNCONVENTIONAL T CELL POPULATIONS -***Benvenuto Federica*^[1], Prigione Ignazia^[2], Bocca Paola^[2], Gualandi Francesca^[3], Mancardi Gianluigi^[1], Pistoia Vito^[2], Uccelli Antonio^[1]*^[1]University of Genoa ~ Genoa ~ Italy - ^[2]G Gaslini Institute ~ Genoa ~ Italy - ^[3]San Martino Hospital ~ Genoa ~ Italy**POSTER SESSION: LATE BREAKING FINDINGS****1 - SULFUROUS WATERS IMPROVE NEUROMUSCULAR COORDINATION AND INCREASE TOTAL GLUTATHIONE LEVELS AND NATURAL KILLER ACTIVITY IN MATURE MICE -***Celaya A.^[1], De las Casas M.^[1], Cruces J.^[1], Hernandez O.^[1], De Castro N.^[1], Mate I.^[1], Arranza L.*^[1], Baeza I.^[1], De la Fuente M.^[1]*- ^[1]Department of Physiology, Faculty of Biology, Complutense University of Madrid, Spain.**2 - EFFECT OF ENRICHED ENVIRONMENTS ON PLASMA CORTICOSTERONE AND LYMPHOCYTE GLUTATHIONE CONTENT IN MALE AND FEMALE TRIPLE-TRANSGENIC MICE FOR ALZHEIMER'S DISEASE -***Arranz L.*^[1], Gimenez-Llort L.^[2], De Castro N.^[1], Baeza I.^[1], De la Fuente M.^[1]*- ^[1]Dept.of Physiology (Animal Physiology II),UCM,28040 Madrid Spain - ^[2]Institute of Neuroscience,UAB,08193 Bellaterra,Spain**3 - COMPLEMENT INHIBITION ABROGATES NERVE SODIUM CHANNEL DISRUPTION IN A RABBIT MODEL OF GUILLAIN-BARRE SYNDROME -***Yuki Nobuhiro*^[1]*- ^[1] GBS Laboratory ~ Tokyo ~ Japan**4 - THE ROLE OF MICRORNAs DURING MICROGLIA ACTIVATION -***Silvestroni Aurelio^[1], M Iler Thomas*^[1]*- ^[1]University of Washington ~ Seattle ~ United States**5 - MODULATION OF HUMAN CD4+CD25+ REGULATORY T CELLS BY TLR2 IS DOSE DEPENDENT -***Nyirenda Mukanthu*^[1], Constantinescu Cris^[1], Gran Bruno^[1]*- ^[1]University of Nottingham ~ Nottingham ~ United Kingdom**6 - INFLUENCE OF CYP3A5 POLYMORPHISM ON THE TACROLIMUS AND CYCLOSPORINE TROUGH CONCENTRATIONS IN MYASTHENIA GRAVIS PATIENTS -***Kawaguchi Naoki*^[1], Nakatani Kaname^[2], Nemoto Yuko^[1], Takahashi Hirokatsu^[1]*- ^[1]Chiba University, Graduate School of Medicine ~ Chiba ~ Japan - ^[2]Mie University School of Medicine ~ Mie ~ Japan**7 - NO EVIDENCE OF INCREASED GENETIC SUSCEPTIBILITY TO AUTOIMMUNE DISEASES IN PORTUGUESE MULTIPLE SCLEROSIS PATIENTS -***Silva Ana^[2], Bettencourt Andreia^[1], Santos Ernestina^[2], Coutinho Ester^[2], Pereira Clara^[1], Carvalho Cludia^[3], Mendonca Denisa^[1], Vasconcelos Carlos^[2], Pinho e Costa Paulo^[3], Monteiro Lu s^[2], Martins Silva Berta^[1]*- ^[1]Istituto de Ciências Biomédicas Abel Salazar (ICBAS) ~ Porto ~ Portugal - ^[2]Hospital Geral de Santo António (HGSA) ~ Porto ~ Portugal - ^[3]Instituto Nacional de Saúde Dr. Ricardo Jorge (INSA) ~ Porto ~ Portugal

8 - BENIGN COURSE IN MULTIPLE SCLEROSIS: ASSOCIATION WITH AUTOIMMUNITY AND THE PROTEIN TYROSINE PHOSPHATASE (PTPN22) I858C>T GENE POLYMORPHISM -

Bettencourt Andreia^{*[1]}, Silva Ana^[2], Pereira Clara^[1], Coutinho Ester^[2], Santos Ernestina^[2], Carvalho Cláudia^[2], Mendonça Denisa^[1], Pinho e Costa Paulo^[3], Monteiro Luísa^[2], Silva Berta^[1]

- ^[1]Instituto de Ciências Biomédicas Abel Salazar (ICBAS) ~ Porto ~ Portugal - ^[2]Hospital Geral de Santo António (HGSA) ~ Porto ~ Portugal - ^[3]Instituto Nacional de Saúde Dr. Ricardo Jorge (INSA) ~ Porto ~ Portugal

9 - CD8+ T-CELLS ARE REQUIRED FOR THE THERAPEUTIC EFFECTS OF GLATIRAMER ACETATE (COPAXONE) ON AUTOIMMUNE DEMYELINATION -

Mendoza Jason^{*[1]}, York Nathan^[1], Benagh Andrew^[1], Firan Mihail^[1], Karandikar Nitin^[1]

- ^[1]UT-Southwestern Medical Center ~ Dallas ~ United States

10 - IMMUNOHISTOCHEMICAL CHARACTERIZATION OF THE TRANSLOCATOR PROTEIN 18 KDA (PERIPHERAL BENZODIAZEPINE RECEPTOR) IN NORMAL AND DISEASED HUMAN BRAIN -

Cosenza-Nashat Melissa^{*[4]}, Zhao Meng-Liang^[1], Suh Heyon-Sook^[1], Morgan Janet^[5], Natividad Ryan^[4], Morgello Susan^[6], Lee Sunhee C.^[1]

- ^[1]Department of Pathology, Albert Einstein College of Medicine ~ Bronx, NY 10461 ~ United States - ^[4]Department of Science, Borough of Manhattan Community College of the City University of New York ~ New York, NY 10007 ~ United States - ^[5]Department of Dermatology, Roswell Park Cancer Institute ~ Buffalo, NY 14263 ~ United States - ^[6]Departments of Pathology and Neuroscience, Mount Sinai Medical Center ~ New York, NY 10029 ~ United States

11 - SIX YEARS OBSERVATION OF TONGUE MUSCLE ATROPHY IN A MUSK-MG PATIENT -

Nemoto Yuko^[1], Kawaguchi Naoki^[1], Takahashi Hirokatsu^[1], Ito Syoichi^[1], Kuwabara Satoshi^[1]

- ^[1] Department of Neurology, Graduate School of Medicine, Chiba University ~ Chiba ~ Japan

12 - MENINGEAL MYELOID CELLS AS MIDDLEMEN BETWEEN T CELL DEFICIENCY AND DEPRESSIVE BEHAVIOR -

Derecki Noel^{*[1]}, Chunhui Yang^[2], Kipnis Jonathan^[2]

^[1]University of Virginia Neuroscience Graduate Program ~ Charlottesville, VA ~ United States - ^[2]University of Virginia Department of Neuroscience ~ Charlottesville, VA ~ United States

13 - THE PATHWAY OF CX3CR1 AND FRACTALKINE INTERACTION IS INVOLVED IN THE LEUKOCYTES INFILTRATION ON EXPERIMENTAL AUTOIMMUNE ENCEPHALOMYELITIS IN MICE -

Muramoto Kenzo^{*[2]}, Kuboi Yoshikazu^[2], Ogasawara Hideaki^[1], Rikitsu Etsuko^[1], Mizuno Keiko^[1], Nishimura Miyuki^[1], Imai Toshio^[1]

- ^[1]Kan research institute ~ Kobe ~ Japan - ^[2]Eisai Co., LTD. ~ Tsukuba-shi ~ Japan

14 - MODULATION OF THE HIV-1 INFECTED MICROGLIAL PROTEOME BY ASTROCYTES -

Kraft-Terry Stephanie^{*[5]}, Wang Tong^[2], Schlautman Joshua^[2], Ciborowski Pawel^[2], Gendelman Howard^[2]

^[2]Department of Pharmacology and Experimental Neuroscience, University of Nebraska Medical Center ~ Omaha, Nebraska ~ United States - ^[5]Department of Pharmacology and Experimental Neuroscience, University of Nebraska Medical Center ~ Omaha, Nebraska ~ United States

15 - ANTI-LEUKOCYTE ADHESION THERAPY FOR THE TREATMENT OF SEIZURES AND EPILEPSY -

Martinello Marianna^{*[1]}, Fabene Paolo^[2], Navarro-Mora Graciela^[2], Rossi Barbara^[1], Merigo Flavia^[2], Bach Simone Dorothea^[1], Angiari Stefano^[1], Marzola Pasquina^[2], Sbarbati Andrea^[2], Butcher Eugene^[3], Constantin Gabriela^[1]

- ^[1]University of Verona, Department of Pathology ~ Verona ~ Italy - ^[2]University of Verona, Department of Morphological sciences ~ Verona ~ Italy - ^[3]Stanford University School of Medicine, Department of Pathology ~ Stanford, CA ~ United States

16 - ROBUST CELL SURFACE PROTEIN TRANSFORMATION FOLLOWS RESTRICTED MONOCYTE HIV-1 INFECTION AND CELL DIFFERENTIATION -

Kadiu Irena^{*[1]}, Wang Tong^[1], Dubrovsky Larisa^[2], Ciborowski Pawel^[1], Schlautman Joshua^[1], Bukrinsky Michael^[2], Gendelman Howard^[1]

^[1]University of Nebraska Medical Center ~ Omaha, NE ~ United States - ^[2]The George Washington University ~ Washington DC ~ United States

17 - IMMUNE REGULATORY ROLE FOR CNS-SPECIFIC, AUTOREACTIVE CD8+ T-CELLS IN MULTIPLE SCLEROSIS -

Baughman Ethan^{*[1]}, Pillai Vinodh^[1], Frohman Elliot C.^[1], Karandikar Nitin J.^[1]

- ^[1]UT Southwestern Medical Center ~ Dallas ~ United States

18 - MICRORNAs REGULATE BRAIN TO BODY ANTI-INFLAMMATORY SIGNALING -

Shaked Iftach^{*[1]}, Meerson Ari^[2], Avni Ran^[3], Gilboa-geffen Adi^[4], Soreq Hermona^[5]

- ^[1]Iftach Shaked ~ The Hebrew University of Jerusalem ~ Israel - ^[2]Ari Meerson ~ The Hebrew University of Jerusalem ~ Israel - ^[3]Ran Avni ~ The Hebrew University of Jerusalem ~ Israel - ^[4]Adi Gilboa-Geffen ~ The Hebrew University of Jerusalem ~ Israel - ^[5]Hermona Soreq ~ The Hebrew University of Jerusalem ~ Israel

19 - TLR3 AND TLR4 ARE INNATE ANTIVIRAL IMMUNE RECEPTORS IN HUMAN MICROGLIA -

Suh Hyeon-Sook^{*[1]}, Zhao Meng-Liang^[1], Belbin Thomas J.^[1], Brosnan Celia F.^[1], Lee Sunhee C.^[1]

- ^[1]Albert Einstein College of Medicine ~ NY ~ United States

20 - MONOCLONAL ANTIBODY PRODUCTION BY IMMORTALIZATION OF B CELLS FROM THE THYMUS OF MYASTHENIA GRAVIS PATIENTS -

Vrolix Kathleen^[1], Fraussen Judith^[2], Meulemans Els^[3], Becker Phillip^[4], Phernambucq Marko^[1], Somers Veerle^[2], Losen Mario^[1], De Baets Marc^[4], Mart nez Mart nez Pilar^{*[1]}

- ^[1]Department of Neuroscience ~ Maastricht ~ Netherlands - ^[2]Neuroimmunology group ~ Hasselt ~ Belgium - ^[3]Department of Pathology ~ Maastricht ~ Netherlands - ^[4]Department of Neuroscience ~ Maastricht ~ Netherlands

21 - IGG4 IMMUNOTHERAPY OF MYASTHENIA GRAVIS -

Losen Mario^{*[1]}, Martinez-Martinez Pilar^[1], Brok Herbert^[2], t Hart Bert^[2], Schuurman Janine^[3], Parren Paul^[3], De Baets Marc^[1]

- ^[1]Department of Neuroscience ~ Maastricht ~ Netherlands - ^[2]Department of Immunobiology ~ Biomedical Primate Research Centre, Rijswijk ~ Netherlands - ^[3]Genmab ~ Utrecht ~ Netherlands

22 - HIV-1-INDUCED BLOOD-BRAIN BARRIER DYSFUNCTION: CROSSTALK BETWEEN STAT1, MEK, AND PI3K PATHWAYS. -

Bo Yang, Sangya Singh, and Georgette Kanmogne^{*[1]}

- ^[1]Department of Pharmacology and Experimental Neurosciences, University of Nebraska Medical Center. Omaha, Nebraska.

AFTERNOON

ROOM A

13.30-15.30 **CONCURRENT SYMPOSIUM: T-REGULATORY CELLS IN NEUROIMMUNOLOGY**
Chairs: **S. Ziegler, R. Caspi**

13.30-14.00 Functionally distinct populations of human natural CD25 high Tregs in healthy donors and patients with multiple sclerosis *Clare Becher Allen*

14.00-14.30 FOXP3 and regulatory T cell function *Steven Ziegler*

14.30-15.00 CD4 and CD8 regulatory T cells in multiple sclerosis *Nitin Karandikar*

15.00-15.30 T-regulatory cells and autoimmunity in the immune privileged eye *Rachel Caspi*

ROOM B

13.30-15.30 **CONCURRENT SYMPOSIUM: NEUROPROTECTIVE STRATEGIES IN NEUROIMMUNOLOGIC DISEASE**

Chairs: **S. Khoury, S. Appel**

13.30-14.00 Interactions between the immune system and neural stem cells *Samia Khoury*

14.00-14.30 T cell astrocyte crosstalk in health and disease *Jonathan Kipnis*

14.30-15.00 CD4+ T-cells modify disease progression in models of familial ALS *Stanley H.Appel*

15.00-15.30 Regenerating the brain: the role of neural stem cells *Gianvito Martino*

ROOM C

13.30-15.30 **CONCURRENT SYMPOSIUM: PARANEOPLASTIC AND POST-INFECTIOUS SYNDROMES**

Chairs: **S.Vernino, H. Willison**

13.30-14.00 Autoimmune autonomic ganglionopathy *Steven Vernino*

14.00-14.30 Anti-glycolipid antibodies in Guillain Barrè syndrome *Hugh Willison*

14.30-15.00 Antibodies to ganglioside complexes in autoimmune neuropathies *Susumu Kusunoki*

15.00-15.30 Cellular immune responses in autoimmune neuropathies of culprits and victims *Bernd Kieseier*



ROOM E

13.30-15.30

CONCURRENT SYMPOSIUM: IMMUNE REGULATION AND TOLERANCE

Chairs: **J. Goverman, T. Forsthuber**

13.30-14.00	Breaking CD8+ T cell tolerance to myelin basic protein by viral infection	Joan Goverman
14.00-14.30	The dual face role of alpha B-crystallin in MS	Hans Van Noort
14.15-14.45	Defining molecular tipping points between CNS neurodegeneration and neurodegeneration the impact of regulating microglial response	Monica Carson
15.00-15.30	T cell tolerance to neuroantigens mediated by HLA-DR2 haplotype molecules	Thomas Forsthuber
15.30-16.00	COFFEE BREAK	

ROOM A

16.00-17.30

WORKSHOP: IMMUNOTHERAPY

Chairs: **D. Cribbs**

1 - INCREASED EXPRESSION OF PROINFLAMMATORY CYTOKINES BY PERIPHERAL BLOOD LEUKOCYTES DURING NATALIZUMAB TREATMENT IN PATIENTS WITH MULTIPLE SCLEROSIS -

Kivisäkk Pia^{*[1]}, Healy Brian^[1], Quintana Francisco^[1], Weiner Howard^[1], Khoury Samia^[1]

^[1]Brigham and Women's Hospital ~ Boston ~ United States

2 - DIFFERENT CHAPERONE USAGE BY IL-12 AND IL-23 DURING THEIR ASSEMBLY REVEALS NOVEL TARGETS FOR INTERVENTION WITH CYTOKINE SECRETION IN NEUROINFLAMMATION -

McLaughlin Martin^{*[2]}, Alloza Iraide^[3], Vandenbroeck Koen^[3]

^[2]Queens University Belfast ~ Belfast ~ United Kingdom - ^[3]Universidad Del Pais Vasco ~ Leioa ~ Spain

3 - NATALIZUMAB DISPROPORTIONATELY INCREASES CIRCULATING PRE-B AND B CELLS IN MULTIPLE SCLEROSIS -

Krumbholz Markus^{*[3]}, Meinel Ingrid^[4], Kümpfel Tania^[4], Hohlfeld Reinhard^[4], Meinel Edgar^[3]

^[3]Max Planck Institute of Neurobiology ~ Martinsried ~ Germany - ^[4]Institute for Clinical Neuroimmunology, LMU ~ Munich ~ Germany

4 - GENOME-WIDE RNA EXPRESSION ANALYSIS OF TWO YEAR INTERFERON BETA 1A SC TREATED MULTIPLE SCLEROSIS PATIENTS DISCLOSE CONSISTENT UPREGULATION OF THERAPY (UN)RELATED GENES -

Goertsches Robert^{*[1]}, Hecker Michael^[2], Koczan Dirk^[1], Thiesen Hans-Jürgen^[1], Zettl Uwe^[1]

^[1]University ~ Rostock ~ Germany - ^[2]Hans Knöll Institute ~ Jena ~ Germany

5 - DIVERSITY IN THE MAJOR ASS B-CELL EPITOPE AMONG DIFFERENT MAMMALS: AFFECT ON VACCINE DESIGN, SAFETY, AND EFFICACY OF IMMUNOTHERAPY FOR ALZHEIMER'S DISEASE -

Cribbs David^{*[1]}, Head Elizabeth^[1], Vasilevko Vitaly^[1]

^[1]University of California Irvine ~ Irvine ~ United States

6 - EXPLORING THE IMMUNOMODULATORY PROPERTIES OF HUMAN NEURAL STEM/PRECURSOR CELLS -

Cossetti Chiara^{*[1]}, De Feo Donatella^[1], Martino Gianvito^[1], Pluchino Stefano^[1]

^[1]San Raffaele Scientific Institute ~ Milano ~ Italy

ROOM B

16.00-17.30

WORKSHOP: REGULATORY MECHANISMSChairs: **A. Cross****1 - GLYCOSYLATION-DEPENDENT SUPPRESSION BY CD4+CD25+ REGULATORY T CELLS IN EXPERIMENTAL AUTOIMMUNE ENCEPHALOMYELITIS -**

Rossi Barbara*^[1], Angiari Stefano^[2], Piccio Laura^[3], Zinselmeyer Bernd^[3], Bach Simone Dorothea^[1], Martinello Marianna^[1], Cross Anne^[3], Miller Mark^[3], Constantin Gabriela^[1]

^[1]University of Verona ~ Verona ~ Italy - ^[2]University of Verona ~ Verona ~ Italy - ^[3]Washington University St Louis ~ St Louis ~ United States

2 - EXOSOMES ARE ASSOCIATED WITH PREGNANCY-INDUCED SUPPRESSION OF EXPERIMENTAL AUTOIMMUNE ENCEPHALOMYELITIS -

Williams Jessica*^[1], Song Fei^[1], Smith Kristen^[1], Kithcart Aaron^[1], Mavrikis Gina^[1], Whitacre Caroline C^[1]

^[1]The Ohio State University ~ Columbus, OH ~ United States

3 - CD4+FOXP3+ T REGULATORY CELLS INHIBIT EXPERIMENTAL AUTOIMMUNE ENCEPHALOMYELITIS VIA DISTINCT IL-10 DEPENDENT AND IL-10 INDEPENDENT MECHANISMS -

Davidson Todd*^[1], Shevach Ethan^[1]

^[1]National Institute of Allergy and Infectious Disease, NIH ~ Bethesda, MD ~ United States

4 - TOLERANCE INDUCTION BY INTRATHYMIC ADMINISTRATION OF A LENTIVIRAL VECTOR ENCODING THE MYELIN OLIGODENDROCYTE GLYCOPROTEIN PREVENTS EXPERIMENTAL AUTOIMMUNE ENCEPHALOMYELITIS -

Siatskas Christopher^[1], Emerson-Webber Ashley^[1], Sun Guizhi^[1], Wang Shunhe^[1], Bernard Claude*^[1]

^[1]Monash University ~ Clayton ~ Australia

5 - HUMAN CD4+ CD25HIGH CELLS INCLUDE BOTH PROINFLAMMATORY T CELLS AND T REGULATORY CELLS: IMPLICATIONS FOR MULTIPLE SCLEROSIS -

Di Mitri Diletta*^[1], Kleinewietfeld Markus^[2], Diamantini Adamo^[1], Starke Mireille^[2], Centonze Diego^[3], Bernardi Giorgio^[3], Gasperini Claudio^[4], Galgani Simona^[4], Falk Kirsten^[2], R tzschke Olaf^[2], Battistini Luca^[1], Borsellino Giovanna^[1]

^[1]Neuroimmunology Unit, Santa Lucia Foundation Scientific Institute ~ Rome ~ Italy - ^[2]Max-Delbrück-Center for Molecular Medicine (MDC) ~ Berlin ~ Germany - ^[3]Department of Neuroscience, University of Rome "Tor Vergata" ~ Rome ~ Italy -

^[4]Department of Neuroscience, San Camillo Hospital ~ Rome ~ Italy

6 - RAPAMYCIN INHIBITS RELAPSING EAE BY ENCEPHALITOGENIC T CELLS SUPPRESSION AND NOT THROUGH TREG EXPANSION -

Esposito Marianna*^[1], Ruffini Francesca^[1], Bellone Matteo^[1], Martino Gianvito^[1], Furlan Roberto^[1]

^[1]San Raffaele Scientific Institute ~ Milano ~ Italy

ROOM C

16.00-17.30

WORKSHOP: LATE BREAKING ABSTRACTSChairs: **R. Liblau****1 - DEVELOPMENT AND CHARACTERIZATION OF A TAPIR-LIKE MONOCLONAL ANTIBODY TO ABETA -**

Tabira Takeshi*^[1], Wang Jun^[1]

^[1]National Institute for Longevity Sciences ~ Obu ~ Japan

2 - MULTIPLE SCLEROSIS-LIKE LESIONS INDUCED BY EFFECTOR CD8 T CELLS RECOGNIZING A SEQUESTERED ANTIGEN ON OLIGODENDROCYTES -

Saxena Amit^[4], Bauer Jan^[5], Scheikl Tanja^[6], Zappulla Jaques^[7], Audebert Marc^[8], Desbois Sabine^[9], Waisman Ari^[10], Lassmann Hans^[11], Mars Lennart^[12], Liblau Roland*^[14]

^[4]Amit Saxena ~ toulouse ~ France - ^[5]Jan Bauer ~ vienna ~ Austria - ^[6]Tanja Scheikl ~ toulouse ~ France - ^[7]Jaques Zappulla ~ toulouse ~ France - ^[8]Marc Audebert ~ toulouse ~ France - ^[9]Sabine Desbois ~ toulouse ~ France - ^[10]Ari Waisman ~ Mainz ~ Germany - ^[11]Hans Lassmann ~ Vienna ~ Austria - ^[12]Lennart Mars ~ toulouse ~ France - ^[14]Roland Liblau ~ Toulouse ~ France



3 - TIM-3:GALECTIN-9 PATHWAY PROTECTS AGAINST CNS AUTOIMMUNITY BY EXPANDING MYELOID-DERIVED SUPPRESSOR CELLS -

Anderson Ana^{*[1]}, Dardalhon Valerie^[1], Karman Jozsef^[1], Chandwaskar Rucha^[1], Lee David H.^[1], Cornejo Melanie^[1], Nishi Nozomu^[2], Yamauchi Akira^[2], Sobel Raymond A.^[3], Hirashima Mitsuomi^[2], Kuchroo Vijay K.^[1]

^[1]Harvard Medical School ~ Boston ~ United States - ^[2]Kagawa University ~ Takamatsu ~ Japan - ^[3]Stanford University ~ Palo Alto ~ United States

4 - CNS-SPECIFIC, AUTOREACTIVE CD8+ T CELLS HAVE A REGULATORY ROLE IN AUTOIMMUNE DEMYELINATION -

York Nathan^{*[1]}, Mendoza Jason^[1], Benagh Andrew^[1], Firan Mihail^[1], Karandikar Nitin^[1]

^[1]UT Southwestern Medical Center at Dallas ~ Dallas ~ United States

5 - MECHANISMS FOR REGULATORY T CELL NEUROPROTECTION OF NEUROTOXIC RESPONSES MEDIATED BY NITRATED ALPHA-SYNUCLEIN STIMULATED MICROGLIA -

Reynolds Ashley^{*[1]}, Stone David^[1], Banerjee Rebecca^[1], Ciborowski Pawel^[1], Mosley R Lee^[1], Gendelman Howard^[1]

^[1]University of Nebraska Medical Center ~ Omaha ~ United States

6 - PRIMARY OLIGODENDROCYTE DEATH DOES NOT CAUSE AUTOIMMUNITY -

Freese Simone^{*[2]}, Frommer Friederike^[3], Thorsten Buch^[4], Locatelli Giuseppe^[5], Bechman Ingo^[6], Karram Khalad^[7], Trotter Jacqueline^[8], Becher Burkhard^[9], Waisman Ari^[10]

^[2] I. Medical Department, Johannes Gutenberg-University Mainz ~ Mainz ~ Germany - ^[3] I. Medical Department, Johannes Gutenberg-University Mainz ~ Mainz ~ Germany - ^[4]Department of Pathology, Institute of Experimental Immunology, University of Zurich ~ Zürich ~ Switzerland - ^[5]Department of Pathology, Institute of Experimental Immunology, University of Zurich ~ Zürich ~ Switzerland - ^[6]Dr. Senckenbergische Anatomie, Institute for Clinical Neuroanatomy, Johann Wolfgang Goethe-University ~ Frankfurt am Main ~ Germany - ^[7]Molecular Cell Biology, Department of Biology, Johannes Gutenberg University of Mainz ~ Mainz ~ Germany - ^[8]Molecular Cell Biology, Department of Biology, Johannes Gutenberg University of Mainz ~ Mainz ~ Germany - ^[9]Department of Pathology, Institute of Experimental Immunology, University of Zurich ~ Zürich ~ Germany - ^[10]I. Medical Department, Johannes Gutenberg-University Mainz ~ Mainz ~ Germany

ROOM D

16.00-17.30 **WORKSHOP: NERVOUS SYSTEM INFECTIONS**

Chairs: **T. Lane**

1 - DEVELOPMENT OF A MODEL ALLOWING STUDY OF THE EARLY STAGES OF DEMYELINATION -

Drescher Kristen^{*[1]}, Tracy Steven^[2]

^[1]Creighton University ~ Omaha ~ United States - ^[2]University of Nebraska Medical Center ~ Omaha ~ United States

2 - INCLUSION BODY MYOSITIS WITH HUMAN T-LYMPHOTROPIC VIRUS-TYPE I INFECTION -

Umehara Fujio^{*[2]}

^[2]Kagoshima University ~ Kagoshima ~ Japan

3 - THE GENETIC DISSECTION OF HERPES SIMPLEX ENCEPHALITIS (HSE) IN CHILDREN -

Sancho Shimizu Vanessa^{*[1]}, Zhang Shen Ying^[1], Lorenzo Lazaro^[1], Pauwels Elodie^[1], Tardieu Marc^[2], Abel Laurent^[1], Jouanguy Emmanuelle^[1], Casanova Jean Laurent^[1]

^[1]NSERM U550 Necker-Enfants Malades Medical School ~ Paris ~ France - ^[2]Bicetre Hospital University Paris Sud ~ Paris ~ France

4 - DIFFERENTIAL ROLES FOR ELR+ CHEMOKINES IN HOST DEFENSE FOLLOWING VIRAL-INDUCED ENCEPHALOMYELITIS AND DEMYELINATION -

Hosking Martin^{*[1]}, Lane Thomas^[1]

^[1]University of California, Irvine ~ Irvine ~ United States

5 - CXCR4 ANTAGONISM INCREASES T CELL TRAFFICKING IN THE CENTRAL NERVOUS SYSTEM AND IMPROVES SURVIVAL FROM WEST NILE VIRUS ENCEPHALITIS -

McCandless Erin^[1], Zhang Bo^[1], Diamond Michael^[1], Klein Robyn ^{*[1]}

^[1]Washington University School of Medicine ~ St. Louis ~ United States

6 - BOTH TLR2 AND TLR4 ARE REQUIRED FOR THE EFFECTIVE IMMUNE RESPONSE IN STAPHYLOCOCCUS AUREUS-INDUCED EXPERIMENTAL MURINE BRAIN ABSCESS -

Werner Stenzel^[1], Sabine Soltek^[2], Monica Sanchez-Ruiz^[1], Shizuo Akira^[3], Hrvoje Miletic^[1], Dirk Schlüter^[4] and Martina Deckert^[1]

^[1]From the Abteilung für Neuropathologie, Universität zu Köln, Köln, Germany - ^[2]Universitätsklinikum Mannheim, Universität Heidelberg, Mannheim, Germany - ^[3]The Department of Host Defense, Research Institute for Microbial Diseases, Osaka University and ERATO of Japan Science and Technology Corporation, Osaka, Japan - ^[4]The Institut für Medizinische Mikrobiologie, Otto-von-Guericke Universität Magdeburg, Magdeburg, Germany

ROOM E

16.00-17.30 **WORKSHOP: NEUROPROTECTION**

Chairs: **C. Kjkstra**

1 - T HELPER CELLS STIMULATE AXON REGENERATION VIA AKT/MAPK-DEPENDENT INTERLEUKIN-4 SIGNALING -

Hendrix Sven^{*[1]}, Hechler Daniel^[1], Sallach Stephanie^[1], Golz Greta^[1], Kammertons Thomas^[1], Luedecke Doreen^[1], Schnell Lisa^[2], Brandt Christine^[1], Rosenberger Karen^[1], Luhder Fred^[3], Gold Ralf^[3], Schwab Martin^[2], Siffrin Volker^[4], Zipp Frauke^[4], Nitsch Robert^[1]

^[1]Institute for Cell Biology and Neurobiology, Center for Anatomy, Charité ~ Berlin ~ Germany - ^[2]Brain Research Center ~ Zurich ~ Switzerland - ^[3]Institute for Multiple Sclerosis Research ~ Göttingen ~ Germany - ^[4]Cecilie-Vogt-Clinics ~ Berlin-Buch ~ Germany

2 - MYELIN REPAIR IS ACCELERATED BY INACTIVATING CXCR2 ON NON-HEMATOPOIETIC CELLS -

Liping Liu^{*[1]}, Taofang Hu^[1], Lindsay Darnall^[1], Astrid Cardona^[1], Abdelmajid Belkadi^[2], Robert Miller^[2], Richard Ransohoff^[1]

- ^[1]Cleveland Clinic ~ Cleveland ~ United States - ^[2]Case Western Reserve University ~ Cleveland ~ United States

3 - A HOMOGENEOUS PATTERN OF ACTIVE DEMYELINATION IN PATIENTS WITH ESTABLISHED MULTIPLE SCLEROSIS

Breij Esther^{*[1]}, Brink Bianca^[1], Veerhuis Rob^[1], van den Berg Christa^[1], Vloet Rianka^[1], Yan Riqiang^[2], Dijkstra Christien^[1], van der Valk Paul^[1], B Lars^[3]

^[1]VU Medical Center ~ Amsterdam ~ Netherlands - ^[2]Lerner Research Institute ~ Cleveland ~ United States - ^[3]Haukeland University Hospital, University of Bergen ~ Bergen ~ Norway

4 - ADAMI0 IS CRITICALLY INVOLVED IN AXONAL OUTGROWTH OF THE PERIPHERAL NERVE -

Jangouk Parastoo^{*[1]}, Dehmel Thomas^[1], Bernal Fabian^[1], Ludwig Andreas^[2], Hartung Hans-Peter^[1], Lehmann Helmar^[1], Kieseier Bernd C.^[1]

^[1]Heinrich-Heine University of Düsseldorf ~ Düsseldorf ~ Germany - ^[2]University Hospital Aachen ~ Aachen ~ Germany

5 - HARNESSING BENEFICIAL INFLAMMATION FOR CNS REPAIR USING THE MS MEDICATION, GLATIRAMER ACETATE -

Skihar Viktor^[1], Silva Claudia^[1], Yong Y. Wee^{*[1]}

^[1]University of Calgary ~ Calgary ~ Canada

6 - THE DUTCH MS PREGNANCY STUDY; IMMUNEPARAMETERS ASSOCIATED WITH DISEASE ACTIVITY -

Verbraak Evert^{*[1]}, Neuteboom Rinze^[1], Voerman Jane^[1], van Meurs Marjan^[1], Wierenga Annet^[1], Steegers Eric^[1], de Groot C^[2], Laman Jon^[1], Hintzen Rogier^[1]

^[1]Erasmus MC ~ Rotterdam ~ Netherlands - ^[2]Medisch centrum Haaglanden ~ The Hague ~ Netherlands

BALLROOM

17.30-19.00 **POSTER VIEWING**



THURSDAY, OCTOBER 30

MORNING

ROOM A

PLENARY SESSION: **NEUROPROTECTION**

Chairs: **D. Kerr, R. Franklin**

08.30-9.10	Stem cells, precursors and the biology of CNS remyelination	<i>Robin Franklin</i>
09.10-09.50	Myelin proteins inhibiting axonal plasticity and regeneration in the adult brain and spinal cord	<i>Steve Strittmatter</i>
09.50-10.20	COFFEE BREAK	
10.20-11.00	Stem cells, inflammation and neural repair	<i>Douglas Kerr</i>
11.00-11.40	Progenitor cell based strategies for treating disorders of central myelin	<i>Martha Windrem</i>

ROOM A

11.45-13.45 **CONCURRENT SYMPOSIUM: NEURODEGENERATION IN THE CNS**

Chairs: **C. Shepherd, P. Popovich**

11.45-12.15	How free radical formation in microglia and macrophages impinges on neurodegenerative disease	<i>Anna Bruce Keller</i>
12.15-12.45	Neuroinflammation abnormal protein deposition and neuronal cell loss	<i>Claire Shepherd</i>
12.45-13.15	Manipulating the immune system to promote spinal cord repair	<i>Phil Popovich</i>
13.15-13.45	Therapeutic strategies against microglia induced neurotoxicity	<i>Akio Suzumura</i>

ROOM B

11.45-13.45 **CONCURRENT SYMPOSIUM: VIRUS INDUCED AUTOIMMUNE DISEASE**

Chairs: **R. Fujinami, S. Weiss**

11.45-12.15	Virus induced epilepsy - contributions of innate community	<i>Robert Fujinami</i>
12.15-12.45	Immunological synapses: the cellular and molecular biology of antiviral immune responses in the brain	<i>Pedro Lowenstein</i>
12.45-13.15	Understanding how viruses can enhance as well as stop autoimmune processes	<i>Matthias von Herrath</i>
13.15-13.45	Innate immune evasion mechanisms of neurovirulent murine coronavirus	<i>Susan Weiss</i>

ROOM C

11.45-13.45 **CONCURRENT SYMPOSIUM: GENE THERAPY OF GLIOMAS**

Chairs: **M. Castro, N. Chiocca**

11.45-12.15	Immune responses against gene and viral therapy in the brain	<i>Nino Chiocca</i>
12.15-12.45	Brain tumor cell death mediates toll-like receptor 2 signaling and contributes to tumor regression and anti-tumor adaptive immunity	<i>Maria Castro</i>
12.45-13.15	Dendritic cells and STAT 3 activation in the tumor microenvironment	<i>Karl Frei</i>
13.15-13.45	Effect of IDO on replication of Oncolytic HSV vectors in glioma cells	<i>Paola Grandi</i>

ROOM E

11.45-13.45

**CONCURRENT SYMPOSIUM: NUCLEAR HORMONE RECEPTORS
IN NEUROIMMUNOLOGIC DISEASE**

Chairs: **P. Drew, G. Landreth**

11.45-12.15	The role of PPAR's after spinal cord injury	<i>Dana McTigue</i>
12.15-12.45	Peroxisome proliferator-activated receptor agonists: Relevance to multiple sclerosis	<i>Paul Drew</i>
12.45-13.15	Liver X receptors as therapeutic targets in Alzheimer's disease	<i>Gary Landreth</i>
13.15-13.45	Role of PPAR'g in neurodegeneration and inflammation	<i>Michael Heneka</i>

CLOSING CEREMONY AND FAREWELL LUNCH



CME

EDUCATIONAL NEED

Progress is being made in the understanding of the pathogenesis and treatment of various neuroimmunologic disorders. The 9th International Congress of Neuroimmunology will bring together experts from around the world to share their insight into diseases ranging from myasthenia gravis to paraneoplastic disorders to multiple sclerosis.

There has been no comprehensive meeting on neuroimmunology since the last ISNI Congress in Nagoya, Japan, October of 2006 and there is no meeting planned in the near future that overlaps with the proposed congress. In addition, of the prior 8 Neuroimmunology Congresses, only one has been held in the United States (Philadelphia, 1987). The only other ISNI Congress held in North America was held in Montreal in 1998.

The scientific program of the Congress will focus on basic mechanisms of immune surveillance and repair of the nervous system, nervous system regulation of immune responses, and immunologic mechanisms of neurologic diseases. A heavy emphasis on new therapeutic approaches (gene, cell and immune-based therapies) in neurologic diseases, especially multiple sclerosis, will permeate the program. Stem cell research in remyelination, neural repair and mechanisms of neurodegeneration will also feature prominently. New imaging techniques to monitor the immune response in the nervous system will also be featured in a plenary session.

EDUCATIONAL OBJECTIVES

Upon conclusion of this program, the attendee should be able to:

- Evaluate the etiology, pathogenesis and treatment of neuroinflammatory diseases, like multiple sclerosis, immune-mediated peripheral neuropathies, myasthenia gravis, Alzheimer's disease, and infectious diseases of the central and peripheral nervous system, the mechanisms underlying immune surveillance and repair of the nervous system, neuro-immune-endocrine interactions, and immunogenetics.
- Identify basic mechanisms of immune surveillance and repair of the nervous system, nervous system regulation of immune responses, and immunologic mechanisms of neurologic diseases.
- Describe and integrate new therapeutic approaches (gene, cell and immune-based therapies) in neurologic diseases, especially multiple sclerosis.
- Recognize stem cell research in remyelination, neural repair and mechanisms of neurodegeneration.
- Recall new imaging techniques to monitor the immune response in the nervous system from the cellular to the human level.

ACCREDITATION STATEMENT

The Ohio State University Medical Center, Center for Continuing Medical Education is accredited by the Accreditation Council for Continuing Medical Education (ACCME) to sponsor continuing medical education for physicians. The Ohio State University Medical Center designates this educational activity for a maximum of **35.25 AMA PRA Category 1 Credits™**. Physicians should only claim credit commensurate with the extent of their participation in the activity.

This activity has been planned and implemented in accordance with the Essential Areas and policies of the Accreditation Council for Continuing Medical Education through the joint sponsorship of The Ohio State University Medical Center and International Society of Neuroimmunology. The Ohio State University Medical Center is accredited by the ACCME to provide continuing medical education for physicians.

HOW DO I GET PROOF OF MY CONTINUING MEDICAL EDUCATION CREDITS?

Continuing Medical Education certificates will be mailed 2 to 4 weeks from the conclusion of the Congress to those who turn in a Congress Attendance Tracking Sheet at the conclusion of the meeting.

Some Congress attendees do not require nor have a need for CME credits. To avoid the unnecessary cost of postage to these individuals, we are requesting you to complete and turn in a Congress Attendance Tracking Sheet if you want CME credit.

To ensure we award credits accurately, please indicate on the form each activity you attend over the course of this 5 day Congress. Not everyone will attend every activity, so please mark only the activities you attended.

If you do not fill out and turn in a Congress Attendance Tracking Sheet by the end of the Congress, you WILL NOT receive a CME certificate in the mail.

If you have any questions or concerns, please feel free to contact Lindsay Cowgill at The Ohio State University Medical Center, Center for Continuing Medical Education by phone at (614) 293-7397 or by email at lindsay.cowgill@osumc.edu



DISCLOSURE STATEMENT

As a provider of AMA PRA Category I Credits™, The Ohio State University Medical Center must insure balance, independence, objectivity and scientific rigor in all its individually sponsored or jointly sponsored educational activities. Faculty members participating in a sponsored activity are expected to disclose to the activity audience any significant financial interest or other relationship.

Federica Agosta, MD, has no affiliations or financial interests to disclose. Her presentation will not include discussion of unapproved or “off-label” usage of commercial products or devices.

Francesca Aloisi, PhD, has no affiliations or financial interests to disclose. Her presentation will not include discussion of unapproved or “off-label” usage of commercial products or devices.

Stanley H. Appel, MD, has no affiliations or financial interests to disclose. His presentation will not include discussion of unapproved or “off-label” usage of commercial products or devices.

Clare M. Baecher-Allan, PhD, has no affiliations or financial interests to disclose. Her presentation will not include discussion of unapproved or “off-label” usage of commercial products or devices.

Jacques Banchereau, PhD, has no affiliations or financial interests to disclose. His presentation will not include discussion of unapproved or “off-label” usage of commercial products or devices.

Amit Bar-Or, MD, discloses affiliations and/or financial interests in the following areas: Grant/Research Support: Biogen Idec, Genentech, Teva Neuroscience, BioMS, Canadian Institutes of Health Research, MS Society of Canada, Research Foundation of the MS Society, The Wadsworth Foundation, the Immune Tolerance Network/NIH. He has received honoraria for speaking at meetings supported by, consulted for or served on the advisory board for: Aventis, Bayhill Therapeutics, Berlex, Biogen Idec, Genentech, Serono, Teva Neuroscience, BioMS, and the Immune Tolerance Network/NIH. His presentation will include discussion of unapproved or “off-label” usage of commercial products or devices.

Burkhard Becher, PhD, has no affiliations or financial interests to disclose. His presentation will not include discussion of unapproved or “off-label” usage of commercial products or devices.

Annadora J. Bruce-Keller, PhD, has no affiliations or financial interests to disclose. Her presentation will not include discussion of unapproved or “off-label” usage of commercial products or devices.

Monica J. Carson, PhD, discloses affiliations and/or financial interests in the following area: Grant/Research Support: Biogen Idec. Her presentation will not include discussion of unapproved or “off-label” usage of commercial products or devices.

Rachel Caspi, PhD, has no affiliations or financial interests to disclose. Her presentation will not include discussion of unapproved or “off-label” usage of commercial products or devices.

Maria G. Castro, PhD, has no affiliations or financial interests to disclose. Her presentation will not include discussion of unapproved or “off-label” usage of commercial products or devices.

Hilde Cheroutre, PhD, has no affiliations or financial interests to disclose. Her presentation will not include discussion of unapproved or “off-label” usage of commercial products or devices.

E. Antonio Chiocca, MD, PhD, discloses affiliations and/or financial interests in the following areas: Advisory Board Membership: Ceregene, Inc; and Editorial Board Involvement: Journal of Neurosurgery, Neurosurgery, Molecular Therapy, Gene Therapy, Cancer Gene Therapy, Journal of Robotic Surgery, Neoplasia, Journal of Neurovirology, Neuro-Oncology, Journal of Neuro-Oncology. His presentation will not include discussion of unapproved or “off-label” usage of commercial products or devices.

Premkumar Christadoss, MD, has no affiliations or financial interests to disclose. His presentation will not include discussion of unapproved or “off-label” usage of commercial products or devices.

Anne H. Cross, MD, discloses affiliations and/or financial interests in the following areas: Grant/Research Support: Acorda Therapeutics, Bayer Healthcare, Genentech, Teva Neuroscience; Consultant/Speaker Bureau: Amgen, Bayer Healthcare, Biogen Idec, Teva Neuroscience; Advisory Board Membership: BioMS; and Honorarium Recipient: Bayer Healthcare, Biogen Idec, Teva Neuroscience. Her presentation will include discussion of unapproved or “off-label” usage of commercial products or devices.

Madeleine W. Cunningham, PhD, discloses affiliations and/or financial interests in the following areas: Grant/Research Support: NIH, Oklahoma Center for Advancement of Science & Technology; Consultant/Speaker Bureau: Novartis Vaccines; Advisory Board membership: University of Hawaii COBRE Grants, Oklahoma Medical Research Foundation COBRE Grants; and Editorial Board Involvement: Circulation Research. Her presentation will not include discussion of unapproved or “off-label” usage of commercial products or devices.

Josep Dalmau, MD, PhD, discloses affiliations and/or financial interests in the following areas: Grant/Research Support: NIH; Consultant/Speaker Bureau: Athena Diagnostics; and Other Financial Material Support: Memorial Sloan-Kettering Cancer Center. His presentation will include discussion of unapproved or “off-label” usage of commercial products or devices.

Betty Diamond, MD, has no affiliations or financial interests to disclose. Her presentation will not include discussion of unapproved or “off-label” usage of commercial products or devices.

Paul D. Drew, PhD, has no affiliations or financial interests to disclose. His presentation will not include discussion of unapproved or “off-label” usage of commercial products or devices.

Alexander Flügel, MD, discloses affiliations and/or financial interests in the following areas: Grant/Research Support: Deutsche Forschungsgemeinschaft. His presentation will not include discussion of unapproved or “off-label” usage of commercial products or devices.

Thomas G. Forsthuber, MD, PhD, has no affiliations or financial interests to disclose. His presentation will not include discussion of unapproved or “off-label” usage of commercial products or devices.

Robin Franklin, PhD, discloses affiliations and/or financial interests in the following areas: Grant/Research Support: Merck-Serono. His presentation will not include discussion of unapproved or “off-label” usage of commercial products or devices.

Karl Frei, PhD, has no affiliations or financial interests to disclose. His presentation will not include discussion of unapproved or “off-label” usage of commercial products or devices.

Robert S. Fujinami, PhD, discloses affiliations and/or financial interests in the following areas: Grant/Research Support: NIH. His presentation will not include discussion of unapproved or “off-label” usage of commercial products or devices.



Ying-Hui Fu, PhD, has no affiliations or financial interests to disclose. His presentation will not include discussion of unapproved or “off-label” usage of commercial products or devices.

Robert S. Fujinami, PhD, discloses affiliations and/or financial interests in the following areas: Grant/Research Support: NIH. His presentation will not include discussion of unapproved or “off-label” usage of commercial products or devices.

Roberto Furlan, MD, has no affiliations or financial interests to disclose. His presentation will not include discussion of unapproved or “off-label” usage of commercial products or devices.

Joan M. Goverman, PhD, has no affiliations or financial interests to disclose. Her presentation will not include discussion of unapproved or “off-label” usage of commercial products or devices.

Paola Grandi, PhD, Disclosure was not available at the time of printing.

Matthias Gunzer, PhD, has no affiliations or financial interests to disclose. His presentation will not include discussion of unapproved or “off-label” usage of commercial products or devices.

Stephen L. Hauser, MD, discloses affiliations and/or financial interests in the following areas: Grants/Research Support: Biogen Idec; Consultant/Speaker Bureau: Perlegen, Pfizer; Advisory Board Membership: Buck Institute, Myelin Repair Foundation; Honorarium Recipient: University of Florida CME; and Editorial Board Involvement: Annals of Neurology. His presentation will include discussion of unapproved or “off-label” usage of commercial products or devices.

Bernard Hemmer, MD, discloses affiliations and/or financial interests in the following areas: Grants/Research Support: Bayer, Biogen Idec, Serono-Merck; Consultant/Speaker Bureau: Roche; and Advisory Board Membership: Bayer. His presentation will not include discussion of unapproved or “off-label” usage of commercial products or devices.

Michael T. Heneka, MD, has no affiliations or financial interests to disclose. His presentation will not include discussion of unapproved or “off-label” usage of commercial products or devices.

Maja Jagodic, PhD, has no affiliations or financial interests to disclose. Her presentation will not include discussion of unapproved or “off-label” usage of commercial products or devices.

Nitin Karandikar, MD, PhD, discloses affiliations and/or financial interests in the following areas: Honorarium Recipient: Teva Neuroscience. His presentation will not include discussion of unapproved or “off-label” usage of commercial products or devices.

William J. Karpus, PhD, discloses affiliations and/or financial interests in the following areas: Grant/Research Support: NIH; and Editorial Board Involvement: Cytometry. His presentation will not include discussion of unapproved or “off-label” usage of commercial products or devices.

Douglas Kerr, MD, PhD, discloses affiliations and/or financial interests in the following areas: Grant/Research Support: Q Therapeutics; Advisory Board Membership: California Stem Cells Inc; and Stockholder: Nerveda Inc. His presentation will not include discussion of unapproved or “off-label” usage of commercial products or devices.

Samia J. Khoury, MD, discloses affiliations and/or financial interests in the following areas: Consultant/Speaker Bureau: Argos, Cytochroma, Daiichi Suntori, Genzyme (husband); and Honorarium Recipient: Biogen Idec. Her presentation will not include discussion of unapproved or “off-label” usage of commercial products or devices.

Tammy L. Kielian, PhD, discloses affiliations and/or financial interests in the following areas: Editorial Board Involvement: Journal of Neuroinflammation. Her presentation will not include discussion of unapproved or “off-label” usage of commercial products or devices.

Bernd Kieseier, MD, has no affiliations or financial interests to disclose. His presentation will not include discussion of unapproved or “off-label” usage of commercial products or devices.

Jonathan Kipnis, PhD, discloses affiliations and/or financial interests in the following areas: Grant/Research Support: Teva Neuroscience; and Honorarium Recipient: American Society for Neurochemistry, NIH (NIMH), Teva Neuroscience. His presentation will not include discussion of unapproved or “off-label” usage of commercial products or devices.

Ellen Kraig, PhD, has no affiliations or financial interests to disclose. Her presentation will not include discussion of unapproved or “off-label” usage of commercial products or devices.

Vijay K. Kuchroo, DVM, PhD, discloses affiliations and/or financial interests in the following areas: Grant/Research Support: Genzyme; Consultant/Speaker Bureau: Genzyme, Wyeth; Advisory Board Membership: Arisaph; Stockholder: Arisaph, Point Therapeutics; and Editorial Board Involvement: Journal of Experimental Medicine, Journal of Neuroimmunology. His presentation will not include discussion of unapproved or “off-label” usage of commercial products or devices.

Susumu Kusunoki, MD, has no affiliations or financial interests to disclose. His presentation will not include discussion of unapproved or “off-label” usage of commercial products or devices.

Gary Landreth, PhD, discloses affiliations and/or financial interests in the following areas: Editorial Board Involvement: Journal of Neuroimmune Pharmacology, Journal of Neuroimmunology. His presentation will not include discussion of unapproved or “off-label” usage of commercial products or devices.

Christopher Linington, PhD, has no affiliations or financial interests to disclose. His presentation will not include discussion of unapproved or “off-label” usage of commercial products or devices.

Dan R. Littman, MD, PhD, has no affiliations or financial interests to disclose. His presentation will not include discussion of unapproved or “off-label” usage of commercial products or devices.

Amy Lovett-Racke, PhD, discloses affiliations and/or financial interests in the following areas: Grant/Research Support: NIH, National Multiple Sclerosis Society; Consultant/Speaker Bureau: Peptimmune, Bristol Myers Squibb, Genentech, Bayer, EMD Serono, Teva Neuroscience; and Editorial Board Involvement: Archives of Neurology, Journal of Immunology, The Neurologist, PPAR Research, Therapeutic Advances in Neurological Disorders. Her presentation will not include discussion of unapproved or “off-label” usage of commercial products or devices.

Pedro R. Lowenstein, MD, PhD, discloses affiliations and/or financial interests in the following areas: Grant/Research Support: NIH; and Editorial Board Involvement: Current Gene Therapy, Gene Therapy, Journal of Molecular Medicine, Molecular Therapy. His presentation will not include discussion of unapproved or “off-label” usage of commercial products or devices.

James R. Lupski, MD, PhD, discloses affiliations and/or financial interests in the following areas: Consultant/Speaker Bureau: Athena Diagnostics. His presentation will not include discussion of unapproved or “off-label” usage of commercial products or devices.

Roland Martin, MD, Disclosure was not available at the time of printing.

Gianvito Martino, MD, has no affiliations or financial interests to disclose. His presentation will not include discussion of unapproved or “off-label” usage of commercial products or devices.

Dana M. McTigue, PhD, has no affiliations or financial interests to disclose. Her presentation will not include discussion of unapproved or “off-label” usage of commercial products or devices.



Richard A. Nash, MD, discloses affiliations and/or financial interests in the following areas: Grant/Research Support: Amgen, Novartis; and Honorarium Recipient: Astellas. His presentation will include discussion of unapproved or “off-label” usage of commercial products or devices.

Avindra Nath, MD, discloses affiliations and/or financial interests in the following areas: Consultant/Speaker Bureau: Nerveda, Inc. His presentation will not include discussion of unapproved or “off-label” usage of commercial products or devices.

J. Lee Nelson, MD, has no affiliations or financial interests to disclose. His presentation will not include discussion of unapproved or “off-label” usage of commercial products or devices.

Halina Offner, PhD, discloses affiliations and/or financial interests in the following areas: Grant/Research Support: National Multiple Sclerosis Society, NIH; and Stockholder: Effective Pharmaceuticals, Inc. Her presentation will not include discussion of unapproved or “off-label” usage of commercial products or devices.

Jorge R. Oksenberg, PhD, has no affiliations or financial interests to disclose. His presentation will not include discussion of unapproved or “off-label” usage of commercial products or devices.

V. Hugh Perry, MA, DPhil, FMedSci, has no affiliations or financial interests to disclose. His presentation will not include discussion of unapproved or “off-label” usage of commercial products or devices.

Phillip G. Popovich, PhD, has no affiliations or financial interests to disclose. His presentation will not include discussion of unapproved or “off-label” usage of commercial products or devices.

Samia Ragheb, PhD, discloses affiliations and/or financial interests in the following areas: Grant/Research Support: Muscular Dystrophy Association. Her presentation will not include discussion of unapproved or “off-label” usage of commercial products or devices.

Serge Rivest, PhD, discloses affiliations and/or financial interests in the following areas: Grant/Research Support: Canadian Institutes of Health Research; and Editorial Board Involvement: Journal of Neuroscience. His presentation will not include discussion of unapproved or “off-label” usage of commercial products or devices.

Walter Royal, III, MD, discloses affiliations and/or financial interests in the following areas: Grant/Research Support: Biogen Idec, EMDSerono, Genzyme, National Multiple Sclerosis Society, NIH (National Institute of Drug Abuse), Teva Neuroscience; Consultant/Speakers Bureau: Bayer, Biogen Idec, EMDSerono, National Multiple Sclerosis Society, Teva Neuroscience; Advisory Board Membership: National Multiple Sclerosis Society; Honorarium Recipient: Bayer, Biogen Idec, EMDSerono, National Multiple Sclerosis Society, Teva Neuroscience; and Editorial Board: Archives of Neurology, Journal of MS Care, Journal of NeuroImmune Pharmacology, Journal of Neuroimmunology, Journal of Neurovirology, The Neurologist, Neurology. His presentation will not include discussion of unapproved or “off-label” usage of commercial products or devices.

Benjamin Segal, MD, discloses affiliations and/or financial interests in the following areas: Grant/Research Support: Dana Foundation, National Multiple Sclerosis Society, NIH; Advisory Board Membership: Multiple Sclerosis Society Clinical Advisory Board (New York Chapter), National Multiple Sclerosis Society Scientific Advisory Board; and Honorarium Recipient: Bayer Healthcare LLC, Biogen Idec, Teva Pharmaceuticals. His presentation will not include discussion of unapproved or “off-label” usage of commercial products or devices.

Arlene H. Sharpe, MD, PhD, discloses affiliations and/or financial interests in the following areas: Grant/Research Support: NIH; and Other Financial Material Support: patents/royalties from patents (spouse). Her presentation will not include discussion of unapproved or “off-label” usage of commercial products or devices.

Kazim Sheikh, MD, has no affiliations or financial interests to disclose. His presentation will not include discussion of unapproved or “off-label” usage of commercial products or devices.

Claire E. Shepherd, BSc, PhD, has no affiliations or financial interests to disclose. Her presentation will not include discussion of unapproved or “off-label” usage of commercial products or devices.

Kazuhiro Shigemoto, MD, PhD, has no affiliations or financial interests to disclose. His presentation will not include discussion of unapproved or “off-label” usage of commercial products or devices.

Lawrence Steinman, MD, discloses affiliations and/or financial interests in the following areas: Advisory Board Membership: Bayhill Therapeutics, Nuon Therapeutics; and Stockholder: Bayhill Therapeutics, Cardinal, Nuon Therapeutics. His presentation will not include discussion of unapproved or “off-label” usage of commercial products or devices.

Stephen M. Strittmatter, MD, PhD, discloses affiliations and/or financial interests in the following areas: Grant/Research Support: Biogen Idec, Merck; Consultant/Speaker Bureau: Biogen Idec; Advisory Board Membership: Biogen Idec; Honorarium Recipient: Pfizer; and Editorial Board Involvement: Journal of Biological Chemistry, Journal of Neuroscience, New Jersey Spinal Cord Commission, Wings for Life. His presentation will not include discussion of unapproved or “off-label” usage of commercial products or devices.

Akio Suzumura, MD, PhD, has no affiliations or financial interests to disclose. His presentation will not include discussion of unapproved or “off-label” usage of commercial products or devices.

Hans van Noort, PhD, discloses affiliations and/or financial interests in the following areas: Grant/Research Support: Delta Crystallon BV; Stockholder: Delta Crystallon BV; and Other Financial Material: CSO of Delta Crystallon BV. His presentation will not include discussion of unapproved or “off-label” usage of commercial products or devices.

Timothy Vartanian, MD, PhD, discloses affiliations and/or financial interests in the following areas: Consultant/Speaker Bureau: Biogen Idec, EMD Serono, Teva Neuroscience; and Honorarium Recipient: Biogen Idec, EMD Serono, Teva Neuroscience. His presentation will not include discussion of unapproved or “off-label” usage of commercial products or devices.

Steven Vernino, MD, PhD, has no affiliations or financial interests to disclose. His presentation will not include discussion of unapproved or “off-label” usage of commercial products or devices.

Angela C. Vincent, MBBS, MSc, discloses affiliations and/or financial interests in the following areas: Consultant/Speaker Bureau: Athena Diagnostics, RSR Ltd UK; and Other Financial Material Support Athena Diagnostics. Her presentation will not include discussion of unapproved or “off-label” usage of commercial products or devices.

Matthias von Herrath, MD, discloses affiliations and/or financial interests in the following areas: Grant/Research Support: NIH (Juvenile Diabetes Research Foundation); and Consultant/Speaker Bureau: Amgen Inc., eBioscience, Gemini, MannKind Corp, Multicell Technologies, Novo Nordisk, PDL BioPharma, Vical Inc. His presentation will not include discussion of unapproved or “off-label” usage of commercial products or devices.

Rhonda Voskuhl, MD, discloses affiliations and/or financial interests in the following areas: Other Financial Material Support: inventor of a UCLA “use” patent for estriol in MS. Her presentation will include discussion of unapproved or “off-label” usage of commercial products or devices.

Edward Wakeland, PhD, has no affiliations or financial interests to disclose. His presentation will not include discussion of unapproved or “off-label” usage of commercial products or devices.



Amy Weinmann, PhD, has no affiliations or financial interests to disclose. Her presentation will not include discussion of unapproved or “off-label” usage of commercial products or devices.

Susan R. Weiss, PhD, discloses affiliations and/or financial interests in the following areas: Grant/Research Support: NIH, National Multiple Sclerosis Society; Honorarium Recipient: University of Colorado, Nucleonics, Inc.; and Editorial Board Involvement: Journal of Virology, Journal of Neurovirology. Her presentation will not include discussion of unapproved or “off-label” usage of commercial products or devices.

Hartmut Wekerle, MD, Prof, discloses affiliations and/or financial interests in the following areas: Grant/Research Support: Novartis. His presentation will not include discussion of unapproved or “off-label” usage of commercial products or devices.

Hugh Willison, MBBS, PhD, has no affiliations or financial interests to disclose. His presentation will not include discussion of unapproved or “off-label” usage of commercial products or devices.

Martha Windrem, MA, has no affiliations or financial interests to disclose. Her presentation will not include discussion of unapproved or “off-label” usage of commercial products or devices.

Gill I. Wolfe, MD, discloses affiliations and/or financial interests in the following areas: Grants/Research Support: NIH (NINDS); Advisory Board Membership: Eli Lilly. His presentation will include discussion of unapproved or “off-label” usage of commercial products or devices.

Jerry S. Wolinsky, MD, discloses affiliations and/or financial interests in the following areas: Grants/Research Support: Acorda, Genentech, NIH, Novartis, Sanofi-Aventis, Teva Neuroscience; Consultant/Speakers Bureau: AstraZeneca, Eisai Medical Research Inc, Genentech, Glycominds, Immune Response Corporation, Sanofi-Aventis, Teva Neuroscience; Advisory Board Membership: Antisense Therapeutics Ltd, Bayer, BioPartners, European Charcot Foundation, Genentech, Immune Response Corporation, Novartis, Protein Design Labs, Sanofi-Aventis, Teva Neuroscience, UCB; and Honorarium Recipient: Serono, WebMD Corp

Christoph Wuelfing, PhD, discloses affiliations and/or financial interests in the following areas: Grants/Research Support: NIH; Consultant/Speaker Bureau: NIH; and Honorarium Recipient: NIH. His presentation will include discussion of unapproved or “off-label” usage of commercial products or devices.

Tony Wyss-Coray, MD, PhD, has no affiliations or financial interests to disclose. His presentation will not include discussion of unapproved or “off-label” usage of commercial products or devices.

Takashi Yamamura, MD, PhD, has no affiliations or financial interests to disclose. His presentation will not include discussion of unapproved or “off-label” usage of commercial products or devices.

Steven F. Ziegler, PhD, has no affiliations or financial interests to disclose. His presentation will not include discussion of unapproved or “off-label” usage of commercial products or devices.