

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], Wuhler 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-GD1A 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 IMMUNOFLOUORESCENCE 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^{*[8]}, Srivastava Rajneesh^[8], Cepok Sabine^[8], Menge Til^[9], Cree Bruce^[10], Berthele Achim^[8], Hemmer Bernhard^[8]

^[8]Dept of Neurology, Technische Univesritat Munich ~ Munich ~ Germany - ^[9]Dept. of Neurologie, Uniklinikum Dusseldorf ~ Dusseldorf ~ Germany - ^[10]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 Serenda^[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-Idec ~ 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], Luidert 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 Adriaenssens^[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**