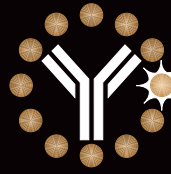




10th International Congress of Neuroimmunology



10th ESNI COURSE
European School
of Neuroimmunology

Sitges (Barcelona, Spain) October 26th - 30th, 2010



SCIENTIFIC PROGRAM

www.isni2010.org



OCTIMS.org

Take a first look at OCT in MS

OCTIMS.org is a central resource for healthcare professionals, providing a wealth of information on the potential role of optical coherence tomography (OCT) in multiple sclerosis (MS), including:

- Up-to-date insights from leading experts in the fields of OCT and MS
- Literature reviews of existing data on OCT in MS

The OCTIMS study Changing the way we see MS

Sponsored by Novartis Pharma AG, the OCTIMS study embodies the Novartis commitment to ongoing research and innovation in MS. Currently underway, this study aims to validate a technique that may literally change the way we see the disease.

- **1999**—The first evidence was published that retinal nerve fibre layer (RNFL) thickness, measured by OCT, is decreased in MS patients
- **2007**—A multidisciplinary, expert panel confirmed the potential role of OCT in MS research and therapy
- **Today**—OCTIMS seeks to validate RNFL thickness and other OCT parameters as potential markers of neurodegeneration in a variety of MS subtypes
- **Tomorrow**—OCT may serve as a complementary tool to MRI suitable for routine monitoring of MS*

*Magnetic resonance imaging (MRI) is the principal imaging tool available for detecting the development and progression of MS, and a variety of techniques can be used to identify the number and volume of clinically silent lesions, as well as reveal active inflammation and migration of inflammatory cells across the blood-brain barrier.





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Renovamos nuestro compromiso con la esclerosis múltiple

investigamos para mejorar tu salud



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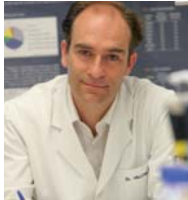
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Welcome letter

Local Organising Committee



Conference Chair
Pablo Villoslada
Hospital Clinic,
Barcelona, Spain



Bernardo Castellano
Autonomous University of
Barcelona, Spain



Francesc Graus
(Hospital Clinic,
Barcelona, Spain)



Isabel Iñfa
Hospital Sant Pau,
Barcelona, Spain



Xavier Montalban
Hospital Vall d'Hebron,
Barcelona, Spain

On behalf of the International Society of Neuroimmunology (ISNI), the European School of Neuroimmunology (ESNI) and the Local Organising Committee, we have the pleasure to welcome you to the 10th International Congress of the ISNI and to the 10th ESNI Course.

The field of Neuroimmunology is expanding because of the growing interest in inflammation for many neurological diseases, the new immunotherapies and biomarkers available or being developed and the growth of new brain infections related with globalization or with the use of new immunotherapies. Thus, we are in the presence of an explosion of knowledge about the mechanisms of brain inflammation as well as new opportunities for intervening in neurological diseases.

We trust that the 10th ISNI Congress will represent an excellent opportunity to realize the changes in the field and to envision new perspectives for basic and clinical research.

The local Organising Committee and the International Advisory Board have set up a program containing lectures, workshops and technical demonstrations with a broad scope and the highest quality, focusing on new and promising technologies or providing feed-back from clinical observations to the lab and back.

To promote the participation to the meeting of young scientists and students from all over the world, the Local Organising Committee, together with the ISNI Board, has made special efforts to ensure the assignment of numerous travel grants, as well as to include specific training sessions in the scientific program.

The beautiful coastal town of Sitges, on the Mediterranean Sea and only 35 km South of Barcelona, will warmly welcome all ISNI attendees with its museums, places to visit and restaurants, which we hope will make this event a memorable experience.

We look forward to your active and enthusiastic participation to the meeting!

Pablo Villoslada
Conference Chair
Department of Neurology, Hospital Clinic
IDIBAPS, Barcelona, Spain



Committees



INTERNATIONAL SOCIETY OF NEUROIMMUNOLOGY

ISNI Executive

President

Caroline Whitacre (Columbus, OH, USA)

Vice-President

Tomas Olsson (Stockholm, Sweden)

Secretary/Treasurer

Trevor Owens (Odense, Denmark)

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 W. Hickey (Dartmouth, MA, USA)
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 G. Martino (Milan, Italy)
 Y. Matsumoto (Tokyo, Japan)
 S. Miller (Chicago, IL, USA)
 H. Perry (Southampton, UK)
 L. Probert (Athens, Greece)
 M. Schwartz (Rehovot, Israel)
 L. Steinman (Stanford, CA, USA)
 P. Villoslada (Barcelona, Spain)
 T. Yamamura (Tokyo, Japan)
 W. Yong (Calgary, Canada)

Honorary Officers

Jack Antel (Montreal, Canada)
 Cedric Raine (New York, NY, USA)
 Angela Vincent (Oxford, UK)
 Hartmut Wekerle (Martinsried, Germany)

LOCAL ORGANISING COMMITTEE OF THE 10TH INTERNATIONAL CONGRESS OF NEUROIMMUNOLOGY

Chair

Pablo Villoslada (Barcelona, Spain)

Bernardo Castellano (Barcelona, Spain)

Francesc Graus (Barcelona, Spain)

Isabel Illa (Barcelona, Spain)

Xavier Montalban (Barcelona, Spain)

committee@isni2010.org

ORGANISING SECRETARIAT



EEM International Congress Services

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secretariat@isni2010.org

www.isni2010.org



Acknowledgements

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Grants

The Local Organising Committee gratefully acknowledges the support of the following organisations and companies for the travel grants assigned to young scientists and students coming from all over the world to attend the meeting:



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Y A LO LARGO DE TODA
LA ENFERMEDAD





General Information

Dates

10th ESNI Pre-Congress Teaching Course
European School of Neuroimmunology
Tuesday, October 26th, 2010

10th ISNI Congress
International Society of Neuroimmunology
Wednesday, October 27th to Saturday, October 30th, 2010

Congress venue

Hotel Melià Sitges Congress & Conference Centre
Joan Salvat Papasseit, 38
Sitges, Barcelona (Spain)
www.hotel-melia.com

Registration desks

The registration desks are located in the hotel lobby from October 25th to 27th and in the Congress Centre from October 28th to 30th with the following schedule:

Monday	October 25, 2010	15:00 – 19:00
Tuesday	October 26, 2010	08:00 – 18:00
Wednesday	October 27, 2010	08:00 – 18:00
Thursday	October 28, 2010	08:00 – 18:00
Friday	October 29, 2010	08:00 – 18:00
Saturday	October 30, 2010	08:30 – 14:00

Participant's fee includes:

- participant's badge and congress material
- access to scientific sessions and exhibition
- abstract book
- certificate of attendance
- coffee breaks
- lunch boxes

Badge

Upon registration you will receive your congress kit with your name badge.
You are kindly requested to wear your badge during all congress sessions and events.
In case you lose your badge, please ask for a duplicate at the congress secretariat desks.

Certificate of attendance

Certificates of attendance will be distributed to all participants on site from October 29th.

Exhibition area

The exhibition area is at the Hotel Melià Congress & Conference Centre.

Opening hours are as follows:

Tuesday	October 26, 2010	.....	09:00 – 18:00
Wednesday	October 27, 2010	.....	09:00 – 18:00
Thursday	October 28, 2010	.....	09:00 – 18:00
Friday	October 29, 2010	.....	09:00 – 18:00
Saturday	October 30, 2010	.....	09:00 – 13:00



Pre-Congress Teaching Course

The 10th ESNI Course will take place between 9:00 and 17:30 on Tuesday, October 26th. Delegates attending the course should register at the registration desks between 15:00 and 19:00 on Monday, October 25th.

Plenary Lectures

There will be four plenary lectures from Wednesday to Saturday. Lectures will take place in the Auditorium of the Hotel Melià Congress & Conference Centre.

Plenary Symposia

There will be four plenary symposia in the morning from Wednesday to Saturday. All plenary sessions will take place in the Auditorium of the Hotel Melià Congress & Conference Centre.

Concurrent Symposia

There will be ten concurrent symposia opening the congress working days from Wednesday to Saturday. All concurrent sessions will take place in the halls Auditorium, Tramuntana 2 and Tramuntana 3 of the Hotel Melià Congress & Conference Centre.

Concurrent Workshops

Workshops will be held from Wednesday to Saturday from 15:00 to 16:30. All workshops will take place in the halls Auditorium, Tramuntana 2, Tramuntana 3, Mestral and Llevant of the Hotel Melià Congress & Conference Centre.

The abstracts to be discussed have been selected by the chairs of each session. Oral communications are allotted 10 minutes for the presentation plus 5 minutes for the discussion. Authors are kindly requested to respect their presentation time. Power Point video projection will be available in all rooms for the presentations, authors must upload their presentation at the Speakers' Ready Room no later than 12:00 on the assigned date of presentation.

Poster Sessions

Posters will be on display on Wednesday, Thursday and Friday between 9:00 and 17:00 in the Posters Hall of the Hotel Melià Congress and Conference Centre.

You can place your poster on the assigned board between 19:00 of the previous day and 9:00 of the assigned date. Posters should be removed by authors between 17:00 and 19:00 on the same day of the assigned session. The Congress Secretariat will not be responsible for posters left behind. Poster size should be maximum 1 m. wide x 1,5 m. high and will be displayed vertically; The position of each poster will be marked by the poster number and title, please place your poster on the assigned board.

Authors must be present during the assigned poster session.

Underneath please find the poster sessions schedule:

Wednesday, October 27th

- PS 1 Neuroinflammation in neurological diseases I
- PS 2 Models of disease
- PS 3 Omics
- PS 4 Glial cells
- PS 5 Psychoimmunomodulation
- PS 6 Biomarkers
- PS 7 Infections
- PS 8 Pathology



Thursday, October 28th

- PS 9 Neuroinflammation in neurological diseases II
- PS 10 Therapies
- PS 11 Immunological mechanisms
- PS 12 T Cells
- PS 13 Mechanisms of nervous system damage
- PS 14 Brain blood barrier

Friday, October 29th

- PS 15 Neuroinflammation in neurological diseases III
- PS 16 B cells and antibodies
- PS 17 Stem cells
- PS 18 Innate immune system
- PS 19 Neurodegeneration
- PS 20 Clinical research
- PS 21 Brain tumors and paraneoplastic syndromes

Language

English is the official language of the congress. No simultaneous translation will be provided.

Sessions

Please make sure to be in the session hall on time as all sessions will begin as per schedule.

Coffee breaks

Coffee and tea breaks will be served in the designed areas as per schedule.

Lunch breaks

Registered participants will receive four lunch coupons, from Wednesday to Saturday. Participants attending the ESNI Course will receive a lunch coupon also for Tuesday, October 26th.

Please present these coupons in order to receive your lunch box which will be distributed in the designed areas as per schedule.

CME credits

The accreditation of the 10th ISNI Congress has been requested to the Council for Continuing Medical Education (EACCME).

The EACCME is an institution of the European Union of Medical Specialists – UEMS (<http://www.uems.be>). On the basis of the EACCME statement, the approval from the National Accreditation Authority of the country where the event takes place will be automatically recognised in all the other European countries. EACCME and the AMA signed an agreement of mutual recognition of CME credits between Europe and the USA so that American physicians attending an event in Europe can have their credits recognised in the USA.

Disabled persons

The Hotel Melià Congress & Conference Centre is equipped with facilities for disabled persons. However, if you have any special needs or disabilities, please let the organising secretariat know when registering for the congress.

Insurance

The organisers will not accept liability for individual medical, travel or personal insurance. It is highly recommended that all participants carry proper health and travel insurance.



Smoking policy

Smoking is forbidden at any time in the meeting halls, poster hall and restrooms. Your compliance is appreciated.

Mobile phones

Mobile phones must be switched off while attending a session.

Speakers' ready room

Speakers' ready room is located in the "Barcelona Room" at the hotel lobby and operates during the congress hours.

All rooms are equipped as follows:

- one large screen
- one LCD projector
- one podium microphone and monitor
- one laser pointer
- 2 radio microphones for the discussion

All invited speakers and presenting authors of accepted abstracts as oral presentation are kindly requested to visit the Speakers' ready room at least the day before their presentation time.

Speakers should clearly identify themselves and specify the room, date and time of presentation as indicated on this scientific program.

During the visit at speakers' ready room a technician will load your presentation on the congress computers, run through it and check it. Your presentation will be sent from the central server to the room where you will give your talk. Congress staff will be available in the session rooms for assistance.

All presentations will be deleted immediately after the meeting end.



Speakers & Chairpersons list

F.	Aloisi	Istituto Superiore di Sanità, Rome, Italy
R.	Balice-Gordon	University of Pennsylvania, Philadelphia, PA, USA
S.	Baranzini	University of California, San Francisco, CA, USA
A.	Bar-Or	McGill University, Montreal, Canada
E.	Benveniste	University of Alabama at Birmingham, AL, USA
J.	Bethea	University of Miami, FL, USA
C.	Bien	University of Bonn, Germany
M.	Brahic	Stanford University, CA, USA
W.	Brück	Georg August University, Göttingen, Germany
C.	Buckley	Oxford University, UK
I.	Campbell	University of Sydney, Australia
C.	Carman	Harvard Medical School, Boston, MA, USA
M. J.	Carson	University of California Riverside, CA, USA
P.	Casaccia	Mount Sinai Medical School, New York, NY, USA
B.	Castellano	Autonomus University of Barcelona, Spain
M.	Comabella	Hospital Vall d'Hebron, Barcelona, Spain
G.	Comi	San Raffaele Hospital, Milan, Italy
G.	Constantin	University of Verona, Italy
J.	Dalmou	University of Pennsylvania, Philadelphia, PA, USA
E.	de Vries	Multiple Sclerosis Center, Amsterdam, The Netherlands
B.	Engelhardt	University of Bern, Switzerland
A.	Flügel Georg	August University, Göttingen, Germany
W.	Gan	Institute of Biomolecular Medicine, New York, NY, USA
J.	Goverman	Washington University, Seattle WA, USA
F.	Graus	Hospital Clinic, Barcelona, Spain
M.	Han	Stanford University, CA, USA
H. P.	Hartung	Heinrich-Heine University, Dusseldorf, Germany
S.	Hauser	University of California, San Francisco, CA, USA
R.	Hohlfeld	Maximilian University, Munich, Germany
I.	Illa	Hospital Sant Pau, Barcelona, Spain
M.	Jagodic	Karolinska Institute, Stockholm, Sweden
M.	Jucker	University of Tübingen, Germany
D.	Karussis	Hadassah University Hospital, Jerusalem, Israel
M.	Kerschensteiner	Maximilian University, Munich, Germany
S.	Khoury	Harvard Medical School, Boston, MA, USA
S.	Kingsmore	National Center for Genome Resources, Santa Fe, NM, USA
R.	Liblau	Hopital Purpan, Toulouse, France
C.	Lucchinetti	Mayo Clinic, Rochester, MN, USA
R.	Martin	University of Hamburg, Germany
G.	Martino	San Raffaele Hospital, Milan, Italy
P.	Matzinger	NIH, Bethesda, MD, USA
A. L.	Mescher	Indiana University, Bloomington, IN, USA
X.	Montalban	Hospital Vall d'Hebron, Barcelona, Spain
K.	Nagaraju	The George Washington University, Washington DC, USA
K.	Nave	Max Planck Institute, Goettingen, Germany
J.	Oksenberg	University of California, San Francisco, CA, USA
T.	Olsson	Karolinska Institutet, Stockholm, Sweden
T.	Owens	University of Southern Denmark, Odense, Denmark
V. H.	Perry	University of Southampton, UK
A.	Prat	CHUM Research Centre, Montreal, Canada
R.	Ransohoff	Cleveland Clinic, OH, USA
J.	Sampson	Duke University, Durham, NC, USA
M.	Schwartz	Weizmann Institute, Rehovot, Israel
R.	Sole	University Pompeu Fabra, Barcelona, Spain
L.	Steinman	Stanford University, CA, USA
A.	Uccelli	University of Genoa, Italy
S.	Van Gool	University of Leuven, Belgium
S.	Vernino	UT Southwestern Medical School, Dallas, TX, USA
P.	Villoslada	Hospital Clinic, Barcelona, Spain
A.	Vincent	Oxford University, UK
A.	Waisman	Medical Center Johannes-Gutenberg University of Mainz, Germany
K.	Wandinger	University of Hamburg, Lübeck, Germany
C.	Wheeler	Cedars-Sinai Medical Center, Los Angeles, CA, USA
C.	Whitacre	The Ohio State University, Columbus, OH, USA
H.	Willison	University of Glasgow, UK
T.	Wyss-Coray	Stanford University, CA, USA
V. W.	Yong	University of Calgary, Calgary, Canada



We have a long-term commitment to multiple sclerosis

We want to be in the next wave of breakthrough drugs that could potentially transform the lives of people living with MS.

Jean Merrill
Vice President, Global Neuroimmunology
Cambridge, USA

Merck Serono conducts extensive research in the area of neurodegenerative diseases in order to offer new therapeutic options to patients. Our strength in immunomodulation and neurobiology research gives us a strong foothold into novel therapeutic approaches for improved symptom treatment and for the development of disease-modifying therapies. Our globally integrated Research and Development organization strives to develop innovative medicines based on scientific excellence and the highest ethical standards.

We will reach our ambitious goals thanks to people like Jean Merrill, a leading light in the field of multiple sclerosis research and one of 2,400 dedicated professionals working around four main R&D hubs in Geneva, Darmstadt, Boston and Beijing.

Discover more about our stories at:
<http://stories.merckserono.com>



Tuesday October 26th, 2010 Auditorium

What Neurologists need to know
Chairs: G. Martino and H. Willison

623 - REGENERATION AND THE IMMUNE SYSTEM
Anthony Mescher09.00
Indiana University School of Medicine ~ Bloomington, Indiana ~ United States

635 - GENETIC APPROACHES FOR NEUROLOGICAL DISORDERS
Maja Jagodic09.45
Karolinska Institutet, Dept. Clinical Neuroscience, Center for Molecular Medicine ~ Stockholm ~ Sweden

COFFEE BREAK10.30 – 11.00

657 - AUTOIMMUNITY: FROM T TO B CELLS
Joan Goverman11.00
Washington University, Dept. Immunology, Seattle, WA, USA

620 - THE BLOOD BRAIN BARRIERS: GATES OR FENCES FOR IMMUNE CELL ENTRY INTO THE CNS?
Britta Engelhardt11.45
Theodor Kocher Institute, University of Bern ~ Bern ~ Switzerland

LUNCH BREAK12.30 – 14.00

Afternoon Session

What Biologists need to know
Chairs: G. Martino and H. Willison

629 - INFECTIONS AND IMMUNE-MEDIATED PATHOLOGIES OF THE NERVOUS SYSTEM
Michel Brahic14.00
Stanford University ~ Stanford ~ United States

653 - AUTOIMMUNITY IN NEUROMUSCULAR JUNCTION AND MUSCLE
Camilla Buckley14.45
Medical Research Council, Clinician Scientist and Honorary Consultant Neurologist, University of Oxford, UK

TEA BREAK15.30 – 16.00

677 – CNS WHITE MATTER AUTOIMMUNITY
Pablo Villoslada16.00
Hospital Clinic, Barcelona ~ Spain

641 - AUTOIMMUNITY IN GREY MATTER DISEASES
Francesc Graus16.45
Hospital Clinic ~ Barcelona ~ Spain

Tuesday October 26th, 2010



10th International Congress of Neuroimmunology

Wednesday October 27th, 2010

Concurrent Symposia 1.....Auditorium

Genomics of Neuroimmunological diseases

Chair: J. Oksenberg

617 - THE GENETICS OF MULTIPLE SCLEROSIS: SNPS TO PATHWAYS TO PATHOGENESIS

Jorge Oksenberg08.30

University of California at San Francisco ~ San Francisco ~ United States

INDIVIDUAL GENOMES, TRANSCRIPTOMES AND NEUROLOGICAL DISEASE

Stephen Kingsmore.....09.00

National Center for Genome Resources, NM, USA

639 - EPIGENETICS LANDMARKS IN OLIGODENDROCYTE FUNCTION AND REMYELINATION

Patrizia Casaccia.....09.30

Mount Sinai School of Medicine ~ New York ~ United States

Concurrent Symposia 2Tramuntana 2

Insights on the Neuroimmunomodulatory role of astroglia and microglia

Chairs: I. Campbell and B. Castellano

621 - SOCS3 PROTEIN REGULATES FUNCTIONALITY OF MACROPHAGES/MICROGLIA IN CNS DISEASES

Etty (Tika) Benveniste08.30

University of Alabama at Birmingham ~ Birmingham ~ United States

605 - INVESTIGATIONS INTO THE ROLE OF ASTROGLIAL-NF-KB IN THE PATHOPHYSIOLOGY OF SCI AND EAE

John Bethea09.00

University of Miami, Miller School of Medicine ~ Miami ~ United States

631 - MECHANISMS OF GP130 SIGNAL TRANSDUCTION AND THE REGULATION OF ASTROGLIAL AND MICROGLIAL FUNCTION

Iain Campbell.....09.30

The University of Sydney ~ Sydney ~ Australia

Wednesday October 27th, 2010 - Concurrent Symposia 1-2



Concurrent Symposia 3Tramuntana 3

Neuromuscular diseases

Chair: I Illa

606 - PATHOGENESIS OF AUTOIMMUNE MYOSITIS: IDENTIFICATION OF NEW THERAPEUTIC TARGETS

Kanneboyina Nagaraju08.30
Research Center for Genetic Medicine, Children's National Medical Center and Department of Integrative Systems Biology, George Washington University School of Medicine, ~ Washington DC ~ United States

638 - AUTOIMMUNE DISEASES OF THE NEUROMUSCULAR JUNCTION

Angela Vincent09.00
University of Oxford ~ Oxford ~ United Kingdom

612 - IDENTIFYING NOVEL ANTI-GLYCOLIPID ANTIBODY TARGETS USING COMBINATORIAL GLYCOARRAYS

Hugh Willison09.30
University of Glasgow ~ Glasgow ~ United Kingdom

COFFEE BREAK.....10.00 – 10.30

PLENARY

Welcome AddressesAuditorium

Caroline Whitacre – ISNI President10.30
Pablo Villoslada – Conference Chair

Lecture 1Auditorium

The Dale McFarlan Lecture: Multiple Sclerosis – the future10.45
Steve Hauser, University of California, San Francisco, USA

Plenary Symposium 1Auditorium

Immunotherapies for neurological diseases

Chair: X. Montalban

TREATING MULTIPLE SCLEROSIS IN 2010

X. Montalban11.45
Centre of Multiple Sclerosis of Catalonia, Hospital Vall d'Hebron, Barcelona, Spain

TREATING MS WITH MICROSURGICAL PRECISION: POTENTIAL AND RISKS OF MONOCLONAL ANTIBODIES

Hans-Peter Hartung12.25
Heinrich Heine University, Düsseldorf, Germany

673 – Oral therapies in multiple sclerosis: mechanisms of action and clinical data

Giancarlo Comi13.05
San Raffaele Hospital, Department of Neurology, Milan, Italy

LUNCH & POSTERS13.45 – 15.00

Wednesday October 27th, 2010 - Concurrent Symposia 3



Poster Session 1Poster Hall ...13.45 – 15.00
Neuroinflammation in neurological diseases I

30 - CLINICAL FEATURES AND PROGNOSTIC VALUE OF IMMUNOLOGICAL INDICATORS OF POLYRADICULONEUROPATHY OF GUILLAIN-BARRE IN ARAL SEA REGION OF THE REPUBLIC OF UZBEKISTAN

Izyumov Danyar*^[2]

- ^[2]Tashkent Medical Academy ~ Tashkent ~ Uzbekistan

33 - DO POLYMORPHISMS AT THE CD14 PROMOTOR GENE AND SOLUBLE CD14 LEVELS EFFECT BIOLOGICAL RESPONSE TO IFN β THERAPY IN MULTIPLE SCLEROSIS?

Aslı Kurne^[1], Guliz Sayat*^[1], Cansin Sackesen^[2], Esra Birben^[2], Omer faruk Aydın^[3], Murat Terzi^[4], Rana Karabudak*^[1]

- ^[1]Hacettepe University Department of Neurology ~ Ankara ~ Turkey - ^[2]HACETTEPE UNIVERSITY, Pediatric Allergy and Asthma Unit ~ Ankara ~ Turkey - ^[3]19 MAYIS UNIVERSITY, PEDIATRIC NEUROLOGY DEPARTMENT ~ Samsun ~ Turkey - ^[4]19 MAYIS UNIVERSITY, NEUROLOGY DEPARTMENT ~ Samsun ~ Turkey

11 - A DETRIMENTAL ROLE FOR EMMPRIN IN MULTIPLE SCLEROSIS AND EXPERIMENTAL AUTOIMMUNE ENCEPHALOMYELITIS

Smriti Agrawal*^[1], Claudia Silva^[1], Yan Fan^[1], V. Wee Yong^[1]

- ^[1]University of Calgary ~ Calgary ~ Canada

190 - A NEW ORAL TREATMENT IMPROVES CLINICAL SIGNS, DECREASE MICROGLIA MEDIATED INFLAMMATION AND REDUCES NEURONAL DAMAGE IN CHRONIC EAE MICE MODEL OF MULTIPLE SCLEROSIS THROUGH MODULATION OF GLIAL POTASSIUM CHANNEL.

Juan Francisco Espinosa-Parrilla*^[1], Noemí Virgili^[2], Pilar Mancera^[2], Andrea Pasten^[2], Manuel J. Rodríguez^[1], Nicole Mahy^[1], Marco Pugliese^[1]

- ^[1]Unitat de Bioquímica -Dept. Ciències Fisiològiques I - Universitat de Barcelona ~ Barcelona ~ Spain - ^[2]Neurotec Pharma SL. ~ Barcelona ~ Spain

82 - A NOVEL STRATEGY AGAINST MICROGLIA-INDUCED NEURODEGENERATION

Akio Suzumura*^[1], Hideyuki Takeuchi^[1], Hiroyuki Mizoguchi^[1], Yukiko Doi^[1], Mariko Noda^[1], Yoshifumi Sonobe^[1], Shijie Jin^[1], Tetsuya Mizuno^[1]

- ^[1]Nagoya University ~ Nagoya ~ Japan

25 - ABR-215031 SUPPRESSES EXPERIMENTAL AUTOIMMUNE NEURITIS IN LEWIS RATS VIA INHIBITION OF T CELL ACTIVITY

Wei Zhu*^[1], Eilhard Mix*^[5], Inger Nennesmo*^[3], Jie Zhu*^[3]

- ^[1]Jilin University ~ Changchun ~ China - ^[3]Karolinska Institute ~ Stockholm ~ Sweden - ^[5]University of Rostock ~ Rostock ~ Germany

95 - ALTERATIONS IN THE EXPRESSION OF PROSTAGLANDIN E SYNTHASES AND RECEPTORS IN EXPERIMENTAL AUTOIMMUNE ENCEPHALOMYELITIS

Sukhdev Kamboj*^[1], Berard Berard^[1], Ruben Lopez-Vales^[1], Adriana Redensek^[1], Samuel David^[1]

- ^[1]Research Institute of McGill University Health Centre ~ Montreal ~ Canada

192 - ALTERED HIPPOCAMPAL SYNAPTIC TRANSMISSION IN TRANSGENIC MICE WITH ASTROCYTE-TARGETED CCL2 OR IL-6 EXPRESSION

Donna Gruol*^[1], Thomas Nelson^[1], Alana Puro^[1], Ruben Hernandez^[1], Kenneth Reyes^[1], Christine Hao^[1], Jessica Manos^[1], Richard M. Ransohoff^[2]

- ^[1]The Scripps Research Institute ~ La Jolla ~ United States - ^[2]Neuroinflammation Research Center, Cleveland Clinic ~ Cleveland ~ United States



87 - ARE MULTIFOCAL MOTOR NEUROPATHY PATIENTS UNDERDIAGNOSED?

Ai Miyashiro^{*[1]}, Naoko Matsu^[1], Yoshimitsu Shimatani^[1], Yoshiko Shibuta^[1], Satoshi Kuwabara^[3], Masayuki Baba^[2], Tetsuo Komori^[2], Masahiro Sonoo^[2], Takahiro Mezaki^[2], Jun Kawamata^[2], Takefumi Hitomi^[3], Nobuo Kohara^[2], Kimiyoshi Arimura^[2], Yuishin Izumi^[1], Susumu Kusunoki^[4], Ryūji Kaji^[1]

- ^[1]Department of Neurology, Institute of Health Bioscience, ~ Tokushima ~ Japan - ^[2]Japanese multifocal motor neuropathy ~ Tokushima ~ Japan - ^[3]Japanese multifocal motor neuropathy ~ Tokushima ~ Japan - ^[4]Department of Neurology, Kinki University School of Medicine, Osaka, Japan ~ Osaka ~ Japan

185 - AXONAL MITOCHONDRIAL DYSFUNCTION IN AN IN VITRO MODEL OF NEUROINFLAMMATION

Oihana Errea^{*[1]}, Alessandra Di Penta^[3], Beatriz Moreno^[1], Nagore Escala^[1], Begoña Fernández^[1], Pablo Villoslada^[1]

- ^[1]Institut Biomedical Research August Pi Sunyer (IDIBAPS) ~ Barcelona ~ Spain - ^[3]University of the Vasque Country (UPV) ~ Zamudio ~ Spain

188 - CHARACTERIZATION OF PLASMACYTOID DENDRITIC CELLS IN MULTIPLE SCLEROSIS

Akiko Nakano^{*[1]}, Igal Ifergan^[1], Hania Kebir^[1], Alexandre Prat^[1]

- ^[1]University of Montreal ~ Montreal ~ Canada

84 - CORRELATION OF MMP-2 AND MMP-9 WITH PRO-INFLAMMATORY CYTOKINES IN GUILLAIN-BARRÉ SYNDROME

KISHAN NYATI^{*[1]}, KASHI N PRASAD^[1], AVANTIKA VERMA^[1], VIMAL PALIWAL^[2]

- ^[1]Dept. Microbiology, Sanjay Gandhi Postgraduate Institute of Medical Sciences, Lucknow, India - ^[2]Neurology, Sanjay Gandhi Postgraduate Institute of Medical Sciences, Lucknow, India

198 - EFFECTS OF IL-18 ON HUMAN SH-SY5Y NEUROBLASTOMA CELL LINE PROTEOME

Elina M Sutinen^{*[6]}, Minna A Korolainen^[8], Tuula Pirttilä^[9], Johanna O Ojala^[10]

- ^[6]University of Eastern Finland, Institute of Clinical Medicine, Department of Neurology ~ Kuopio ~ Finland - ^[8]University of Helsinki, Institute of Biotechnology, Protein Research Group ~ Helsinki ~ Finland - ^[9]Kuopio University Hospital, Department of Neurology ~ Kuopio ~ Finland - ^[10]University of Eastern Finland, Clinical Research Centre/Brain Research Unit ~ Kuopio ~ Finland

171 - EXPERIMENTAL AUTOIMMUNE ENCEPHALOMYELITIS IN THE ABSENCE OF LYSOPHOSPHATIDIC ACID RECEPTOR LPA1

Beatriz García-Díaz^{*[1]}, Isaac Hurtado-Guerrero^[1], Ana Isabel Gómez-Conde^[1], Laura Leyva^[2], Oscar Fernández^[2], Jerold Chun^[3], Fernando Rodríguez De Fonseca^[1], Guillermo Estivill-Torrús^[1]

- ^[1]Fundación IMABIS/ H.R.U. Carlos Haya ~ Málaga ~ Spain - ^[2]Instituto de Neurociencias Clínicas, H.R.U. Carlos Haya ~ Málaga ~ Spain - ^[3]The Scripps Research Institute ~ La Jolla ~ United States

187 - FUNCTIONAL ANALYSIS OF SOCS3 IN MACROPHAGE AND MICROGLIA POLARIZATION

Hongwei Qin^{*[2]}, Michelle Muldowney^[2], Stephanie Reynolds^[2], Lora Yanagisawa^[2], Ety Benveniste^[2]

- ^[2]Department of Cell Biology, University of Alabama at Birmingham ~ Birmingham ~ United States

186 - GENOME-WIDE PROFILING OF GENE EXPRESSION IN THE INJURED SPINAL CORD OF MICE LACKING ASTROGLIAL NF-KB ACTIVITY

Valerie Bracchi-Ricard^{*[1]}, Kate Lambertsen^[2], Lubov Nathanson^[1], Ditte Ellman^[2], Beata Frydel^[1], Shaffiat Karmally^[1], Joshua Johnstone^[1], John Bethea^[1]

- ^[1]University of Miami Miller School of Medicine ~ Miami ~ United States - ^[2]University of Southern Denmark ~ Odense ~ Denmark



129 - IMBALANCE IN INTERLEUKIN-18 AND INTERLEUKIN-18 BINDING PROTEIN IN AD PATIENTS.

Marcella Reale^{*[1]}, Carla Iarlori^[2], Veronica Bellante^[3], Marta Di Nicola^[4], Domenico Gambi^[5]

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

196 - MYELIN-PHAGOCYTOSING MACROPHAGES SHOW IMMUNOMODULATORY PROPERTIES

Jeroen Bogie^{*[1]}, Silke Timmermans^[1], Piet Stinissen^[1], Niels Hellings^[1], Jerome Hendriks^[1]

- ^[1]Hasselt University ~ Diepenbeek ~ Belgium

195 - NEUROPEPTIDES AS MODULATORS OF MICROGLIAL FUNCTION IN ALZHEIMER'S DISEASE

Sigal Fleisher-Berkovich^{*[1]}, Talia Filipovich-Rimon^[1], Sarit Ben-Shmuel^[1], Lajos Gera^[2], Markus Kummer^[3], Michael Heneka^[3]

- ^[1]Ben-Gurion University ~ Beer-Sheva ~ Israel - ^[2]University of Colorado ~ Denver ~ United States - ^[3]University of Bonn ~ Bonn ~ Germany

199 - ONCOSTATIN M REGULATES THE DEVELOPMENT OF INFLAMMATORY CNS LESIONS

Helena Slaets^{*[1]}, Jerome J. Hendriks^[1], Elga de Vries^[2], Chris Van den Haute^[3], Veerle Baekelandt^[3], Piet Stinissen^[1], Niels Hellings^[1]

- ^[1]Biomed, Hasselt University ~ Diepenbeek ~ Belgium - ^[2]VU University Medical Center ~ Amsterdam ~ Netherlands - ^[3]Katholieke Universiteit Leuven ~ Leuven ~ Belgium

54 - PPAR GAMMA/RXR ACTIVATION INCREASES ABETA PHAGOCYTOSIS AND MODULATES MICROGLIAL INFLAMMATION IN VITRO AND IN VIVO

Yamanaka Mitsugu^{*[1]}, Heneka Michael T.^[1]

- ^[1]University of Bonn ~ Bonn ~ Germany

70 - PRENATAL IMMUNE CHALLENGE PROMOTES ALZHEIMER'S DISEASE-LIKE NEUROPATHOLOGY IN AGED WILD-TYPE MICE

Dimitrije Krstic^{*[1]}, Jana Doehner^[1], Karin Breu^[1], Amrita Madhusudan^[1], Irene Knuesel^[1]

- ^[1]University of Zurich ~ Zurich ~ Switzerland

158 - PROGRAMMED CELL DEATH-1 LIGANDS ARE DISTINCTLY EXPRESSED BY HUMAN PRIMARY CNS CELLS AND IMMUNO-REGULATE HUMAN T LYMPHOCYTES: ROLES IN THE MULTIPLE SCLEROSIS PATHOGENESIS

Camille Pittet^{*[1]}, Jia Newcombe^[2], Igal Ifergan^[1], Alexandre Prat^[1], Jack Antel^[3], Nathalie Arbour^[1]

- ^[1]Universite de Montreal ~ Montreal ~ Canada - ^[2]University College London ~ London ~ United Kingdom - ^[3]McGill University ~ Montreal ~ Canada

10 - ROLE OF CHLAMYDIA PNEUMONIAE ANTIBODIES IN SMOKERS WITH ACUTE ISCHEMIC STROKE: INDIAN STUDY

VCS Srinivasarao Bandaru^{*[1]}

- ^[1]Nizam's Institute of Medical Sciences ~ Hyderabad ~ India

134 - T CELLS SPECIFICALLY TARGETED TO AMYLOID PLAQUES ENHANCE PLAQUE CLEARANCE IN A MOUSE MODEL OF ALZHEIMER'S DISEASE

Yair Fisher^{*[1]}, Nemirowsky Anna^[1], Rona Baron^[1], Alon Monsonego^[1]

- ^[1]Ben-Gurion university ~ Be'er-Sheva ~ Israel



152 - TGF- β SIGNALLING IN MYELOID CELLS DURING EXPERIMENTAL AUTOIMMUNE ENCEPHALOMYELITIS IS CRUCIAL FOR THE ENTRANCE INTO THE REMISSION PHASE

Ivana Trogrlić^{*[1]}, Ursula Malipiero^[1], Friederike Ackermann^[1], Tobias Suter^[1], Adriano Fontana^[1]

- ^[1]University Hospital Zurich ~ Zurich ~ Switzerland

205 - THE CHEMOKINE RECEPTOR CXCR3 IS CRITICAL FOR THE ALZHEIMER-LIKE PLAQUE FORMATION IN TRANSGENIC APP/PS1 MICE

Marius Krauthausen^{*[1]}, Markus Kummer^[2], Dick Terwel^[2], Julian Zimmermann^[1], Michael Heneka^[2], Marcus Müller^[1]

- ^[1]University of Bonn, Experimental Neuroimmunology ~ Bonn ~ Germany - ^[2]University of Bonn, Clinical Neuroscience ~ Bonn ~ Germany

177 - THE CONTRIBUTION OF P38ALPHA MAPK VERSUS P38BETA MAPK IN THE MICROGLIA CYTOKINE RESPONSE TO LPS OR BETA-AMYLOID

Bachstetter Adam^{*[1]}, Van Eldik Linda^[1]

- ^[1]University of Kentucky ~ Lexington ~ United States

79 - THE EFFECT OF MEDICINAL PLANTS ON NEUROINFLAMMATION IN NEUROLOGICAL DISEASES: A PRAGMATIC RANDOMIZED ETHNOPHARMACOLOGICAL SURVEY IN CHAPAI-NAWABGANJ DISTRICT OF BANGLADESH

Md. Ariful Haque Mollik^{*[1]}

- ^[1]Peoples Integrated Alliance ~ Dhaka ~ Bangladesh

200 - THE INHIBITORY NEUROTRANSMITTERS GLYCINE AND GABA AMELIORATE THE DISEASE COURSE OF EXPERIMENTAL AUTOIMMUNE ENCEPHALOMYELITIS

Sofie Carmans^{*[1]}, Jerome Hendriks^[1], Jean-Michel Rigo^[1], Piet Stinissen^[1], Niels Hellings^[1]

- ^[1]Biomed, Hasselt University ~ Diepenbeek ~ Belgium

22 - THE ROLES OF GP91PHOX (NOX2) EXPRESSED IN CLASSICAL ACTIVATED MICROGLIA AFTER TRAUMATIC BRAIN INJURY

Dohi Kenji^{*[1]}, Ohtaki Hirokazu^[1], Satoh Kazuo^[1], Nakamachi Tomoya^[1], Yofu Sachiko^[1], Miyamoto Kazuyuki^[1], Song Dandan^[1], Tsunawaki Shohko^[2], Shioda Seiji^[1], Aruga Tohru^[1]

- ^[1]Showa University ~ Tokyo ~ Japan - ^[2]National Research Institute for Child Health and Development ~ Tokyo ~ Japan

38 - THERAPEUTIC EFFECT OF THE ALKYL-LYSOPHOSPHOLIPID EDELFOSE ON IMMUNE CELLS AND EXPERIMENTAL AUTOIMMUNE ENCEPHALOMYELITIS

Pierre Abramowski^{*[3]}, Karin Steinbach^[3], Francis A. Ayuk^[2], Roland Martin^[3], Axel R. Zander^[2]

- ^[2]Clinic for Stem Cell Transplantation, University Cancer Center Hamburg, University Medical Center Hamburg-Eppendorf ~ Hamburg ~ Germany - ^[3]Institute for Neuroimmunology and Clinical MS-Research (inims*), Center for Molecular Neurobiology Hamburg, University Medical Center Hamburg-Eppendorf ~ Hamburg ~ Germany

619 - DIAGNOSIS OF DEVIC DISEASE VERSUS MULTIPLE SCLEROSIS

Darmun Enas^{*[1]}, Nasser Habib^[1]

- ^[1]AOA Hospital ~ Tripoli ~ Libya



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Models of disease

465 - DIABETIC KETOACIDOSIS INCREASES INFLAMMATORY TRANSCRIPTION FACTOR ACTIVATION AND ADHESION MOLECULE EXPRESSION

Taylor E. Close*⁽¹⁾, Kathryn A. Bezzina⁽¹⁾, Eric K Patterson⁽¹⁾, Gediminas Cepinskas⁽¹⁾, Douglas D Fraser⁽¹⁾

- ⁽¹⁾The University of Western Ontario ~ London, ON ~ Canada

208 - A NOVEL MOUSE MODEL FOR THE ASSESSMENT OF NEUROPROTECTION AND REPAIR STRATEGIES FOR MULTIPLE SCLEROSIS.

Katie Lidster*⁽¹⁾, Jackson Sam⁽¹⁾, Gavin Giovannoni⁽¹⁾, David Baker⁽¹⁾

- ⁽¹⁾Queen Mary University of London ~ London ~ United Kingdom

309 - AN AUTOIMMUNE ANIMAL MODEL FOR IDIOPATHIC DIABETES INSIPIDUS

Tanja Scheik⁽¹⁾, Beatrice Pignolet*⁽²⁾, Jan Bauer⁽³⁾, Hans Lassmann⁽³⁾, Daniele Raison⁽⁴⁾, Helene Hardin-Pouzet⁽⁴⁾, Roland Liblau⁽¹⁾

- ⁽¹⁾INSERM ~ Toulouse ~ France - ⁽²⁾INSERM ~ Toulouse ~ France - ⁽³⁾Medical University ~ Vienna ~ Austria - ⁽⁴⁾INSERM ~ Paris ~ France

146 - CHARACTERIZATION OF EXPERIMENTAL AUTOIMMUNE NEURITIS MODELS INDUCED BY P0 PEPTIDES AND LIPOPEPTIDES IN LEWIS RATS

Wissam BEAINO⁽¹⁾, Elisabeth TRIFILIEFF*⁽²⁾

- ⁽¹⁾Université de Strasbourg / CNRS ~ Strasbourg ~ France - ⁽²⁾Université de Strasbourg / CNRS ~ Strasbourg ~ France

15 - COMPLEMENT ACTIVATION IS DISPENSABLE FOR MYASTHENIA GRAVIS CAUSED BY MUSK ANTIBODIES.

Shigemoto Kazuhiro*⁽¹⁾, Mori Shuuichi⁽¹⁾, Kubo Sachiko⁽¹⁾, Akiyoshi Takuyu⁽¹⁾, Yamada Shigeru⁽¹⁾, Miyazaki Tsuyoshi⁽¹⁾

- ⁽¹⁾Tokyo Metropolitan Institute of Gerontology ~ Tokyo ~ Japan

50 - DOMINANCY OF ENCEPHALITOGENIC PEPTIDE ITSELF DIRECTS SUSTAINABLE REGULATION OF A MODEL OF MULTIPLE SCLEROSIS, BY INDUCTION OF 'ARMOURED' TREG

Youwei Lin*⁽¹⁾, Miyake Sachiko⁽¹⁾, Yamamura Takashi⁽¹⁾

- ⁽¹⁾National Institute of Neuroscience, NCNP ~ Tokyo ~ Japan

77 - EFFECT OF SELECTIVE INHIBITION OF SOLUBLE TNF SIGNALING IN A MOUSE MODEL OF SPINAL CORD INJURY

Kate Lykke Lambertsen*⁽¹⁾, Valerie Bracchi-Ricard⁽²⁾, Anjana Jain⁽²⁾, Erik Runko⁽²⁾, Lise Lyck⁽¹⁾, Ellman Ditte⁽¹⁾, David Szymkowski⁽³⁾, Damien D. Pearse⁽²⁾, John Bethea⁽²⁾

- ⁽¹⁾University of Southern Denmark ~ Odense ~ Denmark - ⁽²⁾University of Miami Miller School of Medicine ~ Miami ~ United States - ⁽³⁾Xencor Inc. ~ Monrovia ~ United States

292 - EXPRESSION QUANTITATIVE TRAIT LOCI IDENTIFIES CANDIDATE GENES AND REGULATING PATHWAYS IN EXPERIMENTAL AUTOIMMUNE ENCEPHALOMYELITIS

Mélanie Thessén Hedreul*⁽¹⁾

- ⁽¹⁾Dept of Clinical Neuroscience, Karolinska Institute ~ Stockholm ~ Sweden



357 - FUNCTIONAL EFFECTS OF ANTI-BASAL GANGLIA ANTIBODIES IN PATIENTS WITH ENCEPHALITIS LETHARGICA AND OTHER RELATED DISORDERS ASSOCIATED WITH STREPTOCOCCAL INFECTION.

Priyamvada Dua*^[1], Ute Meier^[1], David Holden^[1], David Baker^[1], Gavin Giovannoni^[1]

- ^[1]Queen Mary, University of London ~ London ~ United Kingdom

285 - GPR55 AS A NOVEL TARGET FOR DISEASE CONTROL IN MULTIPLE SCLEROSIS

Sofia Sisay^[2], Gareth Pryce^[2], Greg Michael^[2], Sam Jackson^[2], David Selwood^[3], David Baker^[2]

- ^[2]Blizard Institute of Cell and Molecular Science, Barts and the London School of Medicine and Dentistry, Queen Mary University of London, United Kingdom ~ London ~ United Kingdom - ^[3]The Wolfson Institute for Biomedical Research, University ~ London ~ United Kingdom

19 - HERPES SIMPLEX VIRUS TYPE 1 (HSV-1) INDUCED CENTRAL NERVOUS SYSTEM (CNS) DEMYELINATION IN MICE

Lorne Kastrukoff*^[1], Allen Lau^[1], Eva Thomas^[1]

- ^[1]University of British Columbia ~ Vancouver ~ Canada

154 - HPA AXIS ACTIVATION INFLUENCES THE SUSCEPTIBILITY TO DEVELOP EXPERIMENTAL AUTOIMMUNE ENCEPHALOMYELITIS IN A GENDER SPECIFIC MANNER

Idan Harpaz*^[1]

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

120 - IMPROVEMENT OF FATIGUE BY INTERLEUKIN-1 INHIBITION

Katrine Brække Norheim*^[1], Erna Harboe^[1], Roald Omdal^[1]

- ^[1]Stavanger University Hospital ~ Stavanger ~ Norway

563 - INCREASED TRPM8 EXPRESSION ON RAT BRAIN IN THE PATHOGENESIS OF EXPERIMENTAL AUTOIMMUNE ENCEPHALOMYELITIS

Jia Yanjie*^[1], Lu Jingjing^[1], Jia Yonglin^[1], Jing Lijun^[1]

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

225 - INHIBITION OF AUTOIMMUNITY IS INSUFFICIENT TO STOP SECONDARY PROGRESSIVE, EXPERIMENTAL AUTOIMMUNE ENCEPHALOMYELITIS

Sarah Al-Izki^[1], Gareth Pryce^[1], Samuel Jackson^[1], Gavin Giovannoni^[1], David Baker*^[1]

- ^[1]Centre for Neuroscience and Trauma, Blizard Institute of Cell and Molecular Science, Barts and The London School of Medicine and Dentistry ~ London ~ United Kingdom

578 - INHIBITION OF NEUTROPHIL ELASTASE ATTENUATES TH17-INDUCED NEURO-INFLAMMATION

Robert Axtell*^[1], Lawrence Steinman^[1]

- ^[1]Stanford University ~ Stanford ~ United States

168 - MAGNETIC RESONANCE IMAGING ANALYSIS OF BRAIN LESIONS IN A MOUSE MODEL OF PROGRESSIVE MULTIPLE SCLEROSIS

Hilit Levy*^[1], Yaniv Assaf^[1], Dan Frenkel^[1]

- ^[1]Tel Aviv University ~ Tel Aviv ~ Israel

311 - NEUROGENESIS IN 22Q11.2 DELETION SYNDROME: ROLE OF MICRORNAs

Annamaria Nigro*^[1], Andrea Bergamaschi^[1], Davide De Pietri Tonelli^[2], Comi Giancarlo^[3], Gianvito Martino^[1], Luca Muzio^[1]

- ^[1]Neuroimmunology Unit, San Raffaele Scientific Institute ~ Milan ~ Italy - ^[2]Neuroscience and brain technologies department, The Italian Institute of Technology ~ Genoa ~ Italy - ^[3]Institute of Experimental Neurology (INSPE), Vita-Salute University, San Raffaele Scientific Institute ~ Milan ~ Italy



66 - NEURONAL PPARG-KNOCKOUT CAUSES OBESITY AND PERIPHERAL INSULIN RESISTANCE IN MICE

Delia Kurzweily*^[1], Mitsugu Yamanaka^[1], H el ene Duez^[2], Christiane Kummer^[1], Dick Terwel^[1], Stefanie Figura^[3], Monika Stoll^[3], Bart Staels^[2], Sandra Goebbels^[4], Klaus-Armin Nave^[4], Michael T. Heneka^[1]

- ^[1]University of Bonn ~ Bonn ~ Germany - ^[2]University of Lille ~ Lille ~ France - ^[3]Leibniz-Institut f ur Arterioskleroseforschung ~ Muenster ~ Germany - ^[4]University of Goettingen ~ Goettingen ~ Germany

217 - NEUROPROTECTION IN EXPERIMENTAL MODELS OF MULTIPLE SCLEROSIS USING SODIUM CHANNEL BLOCKADE: EVIDENCE FOR AN INFLAMMATORY PENUMBRA

Sarah Al-Izki*^[1], Gareth Pryce^[1], Gavin Giovannoni^[1], David Baker^[1]

- ^[1]Blizard Institute of Cell and Molecular Science, Barts and the London School of Medicine and Dentistry, Queen Mary University of London ~ London ~ United Kingdom

226 - PERIPHERAL BUT NOT CENTRAL CHRONIC INFLAMMATORY STIMULUS, EXACERBATES CENTRAL DEMYELINATION IN AN INNATE INFLAMMATORY MODEL

Ver onica Murta*^[1], Fernando Pitossi^[1], Carina Ferrari^[1]

- ^[1]Fundaci n Instituto Leloir - CONICET ~ Buenos Aires ~ Argentina

499 - PHOSPHODIESTERASE PDE4B2 EXPRESSION IN AN EAE MICE MODEL.

Cristina Sanabra*^[1], Emily Johansson^[1], Rocio Mart n^[1], Guadalupe Mengod^[1]

- ^[1]IIBB-CSIC (IDIBAPS-CIBERNED) ~ Barcelona ~ Spain

116 - RAPID INJURY AND STEADY RECOVERY OF THE NEUROMUSCULAR NERVE TERMINAL INTEGRITY AFTER APPLICATION OF ANTI-GANGLIOSIDE ANTIBODY IN A MURINE MODEL OF GUILLAIN-BARR  SYNDROME

Angie Rupp*^[1], Hugh J. Willison^[1]

- ^[1]Division of Clinical Neurosciences, University of Glasgow ~ Glasgow ~ United Kingdom

520 - SILENCING OF MURINE ADAM17 EXPRESSION IN VITRO BY A LENTIVIRAL VECTOR-MEDIATED RNA INTERFERENCE APPROACH

Melanie Sinagra*^[1], Rowena Bunning^[1], Chris Bolton^[2], Mimoun Azzouz^[3], Nicola Woodroffe^[1]

- ^[1]Sheffield Hallam University ~ Sheffield ~ United Kingdom - ^[2]Queen Mary, University of London ~ London ~ United Kingdom - ^[3]University of Sheffield ~ Sheffield ~ United Kingdom

140 - SUBPIAL CORTICAL DEMYELINATION INDUCED BY SUBARACHNOID INJECTION OF TUMOUR NECROSIS FACTOR AND INTERFERON GAMMA IN MOG IMMUNIZED ANIMALS

Christopher Gardner*^[1], Jon Rundle^[1], Ryan Patel^[1], Deanna L. Taylor^[1], Richard Reynolds^[1]

- ^[1]Imperial College ~ London ~ United Kingdom

172 - THE FRACTALKINE/CX3CR1 PATHWAY IS INVOLVED IN THE DEVELOPMENT OF SYMPTOMS AND ALLODYNIA IN EAE THROUGH DISTINCT MECHANISMS, AND HAS BOTH PERIPHERAL AND CENTRAL ROLES.

Kenzo MURAMOTO^[1], Toshio IMAI^[2], Miyuki NISHIMURA^[2], Minoru KUMAI^[2], Tatsuya YANAGAWA*^[1]

- ^[1]Frontier PCU/EISAI ~ Tsukuba ~ Japan - ^[2]Research & Development/KAN Research Institute. Inc ~ Kobe ~ Japan

45 - THE PROFILE OF CYTOKINE EXPRESSION INVOLVED WITH VIRUS PERSISTENCE AND VIRUS-INDUCED DEMYELINATION

Yoshiro Ohara*^[1], Toshiki Himeda^[1], Takako Okuwa^[1], Yasushi Muraki^[1]

- ^[1]Department of Microbiology, Kanazawa Medical University School of Medicine ~ Ishikawa ~ Japan



224 - THE ROLE OF ALPHA-1,2-MANNOSIDASE IN REGULATION OF CENTRAL NERVOUS SYSTEM INFLAMMATION

Nicole Hentschel^[1], Jason Millward^{*[1]}, Sonia Waiczies^[2], Stephan Schlickeiser^[1], Birgit Sawitzki^[1], Carmen Infante-Duarte^[1]

- ^[1]Charité - Universitätsmedizin Berlin ~ Berlin ~ Germany - ^[2]University of Malta ~ Msida ~ Malta

181 - TOLL-LIKE RECEPTOR 2, 4, 9 AND MYD88 EXPRESSION IN CNS CORRELATES WITH ACTIVITY OF EXPERIMENTAL AUTOIMMUNE ENCEPHALOMYELITIS

Ermina Savic^{*[1]}, Dusan Popadic^[1], Milos Markovic^[1], Marija Mostarica - Stojkovic^[1]

- ^[1]Institute of Microbiology and Immunology, University of Belgrade, School of Medicine ~ Belgrade ~ Serbia

449 - VITAMIN D RECEPTOR GENE AND PROTECTION FROM MULTIPLE SCLEROSIS

Cristina Agliardi^{*[1]}, Franca Rosa Guerini^[1], Marina Saresella^[1], Domenico Caputo^[1], Maurizio Leone^[2], Milena Zanzottera^[1], Ivana Marventano^[1], Nadia Barizzzone^[3], Maria Edvige Fasano^[4], Mario Clerici^[5]

- ^[1]Don C. Gnocchi Foundation IRCCS ~ Milan ~ Italy - ^[2]Ospedale Maggiore della Carità ~ Novara ~ Italy - ^[3]University of Eastern Piedmont ~ Novara ~ Italy - ^[4]San Giovanni Battista Hospital ~ Turin ~ Italy - ^[5]University of Milan ~ Milan ~ Italy



**Poster Session 3Poster Hall13.45 – 15.00
Omics**

107 - ALTERATIONS IN MICRORNA TARGET EXPRESSION IN DEMYELINATING SPINAL CORD LESIONS OF PATIENTS WITH NEUROMYELITIS OPTICA

Katja Herges*^[1], Brigít de Jong^[2], Frauke Zipp^[3], Lawrence Steinman ^[1]

- ^[1]Stanford University ~ Stanford ~ United States - ^[2]Radboud University Nijmegen Medical Center ~ Nijmegen ~ Netherlands - ^[3]University Medicine Mainz ~ Mainz ~ Germany

283 - ALTERATIONS IN PHOSPHORYLATION STATUS OF BRAIN PROTEINS IN AN ANIMAL MODEL OF MULTIPLE SCLEROSIS

Annelies Vanheel*^[1], Ruth Daniels^[1], Piet Stinissen^[1], Jean-Paul Noben^[1], Niels Hellings^[1]

- ^[1]BIOMED, Hasselt University ~ Diepenbeek ~ Belgium

530 - CSF PROTEOMIC PATTERN ANALYSIS OF MULTIPLE SCLEROSIS AND ITS RELATED DISORDERS

Miika Komori*^[1], Yumiko Matsuyama^[2], Takashi Nirasawa^[2], Herbert Thiele^[3], Michael Becker^[3], Theodore Alexandrov^[4], Masami Tanaka^[5], Takahiko Saida^[5], Tatsuro Misu^[6], Kazuo Fujihara^[6], Hidekazu Tomimoto^[7], Hidefumi Ito^[1], Ryosuke Takahashi^[1], Kei Tashiro^[8], Masaya Ikegawa^[8], Takayuki Kondo^[9]

- ^[1]Department of Neurology, Kyoto University ~ Kyoto ~ Japan - ^[2]Bruker Daltonics K.K. ~ Kanagawa ~ Japan - ^[3]Bruker Daltonik GmbH ~ Bremen ~ Germany - ^[4]Center for Industrial Mathematics, University Bremen ~ Bremen ~ Germany - ^[5]Utano National Hospital ~ Kyoto ~ Japan - ^[6]Department of Multiple Sclerosis Therapeutics, Tohoku University ~ Miyagi ~ Japan - ^[7]Department of Neurology, Mie University ~ Mie ~ Japan - ^[8]Department of Genomic Medical Science, Kyoto Prefectural University of Medicine ~ Kyoto ~ Japan - ^[9]Kitano Hospital, Tazuke Kofukai Medical Research Institute ~ Osaka ~ Japan

487 - GENDER-BASED SYSTEMS BIOLOGY IN MULTIPLE SCLEROSIS UNRAVELS DISTINCT BLOOD GENE SIGNATURES BUT COMMON EPIGENETIC FACETS

Ramesh Menon^[1], Marco Di Dario^[1], Loredana La Mantia^[1], Clara Milanese^[1], Anna Luisa Di Stefano^[2], Massimo Crabbio^[2], Diego Franciotta^[2], Renato Mantegazza^[1], Roberto Bergamaschi^[2], Enzo Medico^[3], Cinthia Farina*^[1]

- ^[1]Foundation IRCCS Neurological Institute Carlo Besta ~ Milan ~ Italy - ^[2]Foundation IRCCS Neurological Institute Casimiro ~ Pavia ~ Italy - ^[3]Institute for Cancer Research and Treatment (IRCC) ~ Candiolo-Torino ~ Italy

379 - GENE EXPRESSION PROFILING OF CD34+ HEMATOPOIETIC STEM CELLS FROM MULTIPLE SCLEROSIS PATIENTS AND CONTROLS – ABSENCE OF PROINFLAMMATORY SIGNATURES

Andreas Lutterotti*^[1], Ilijas Jelcic^[1], Christian Schulze^[1], Sven Schippling^[1], Breiden Petra^[1], Benedetta Mazzanti^[2], Stefanie Reinhardt^[1], Andreas Sputtek^[3], Riccardo Saccardi^[2], Mireia Sospedra^[1], Axel Zander^[4], Roland Martin^[1]

- ^[1]Institute for Neuroimmunology and Clinical MS Research ~ Hamburg ~ Germany - ^[2]Dept. of Hematology, Careggi University Hospital ~ Firenze ~ Italy - ^[3]Dept. of Transfusion Medicine, University Medical Center Hamburg-Eppendorf ~ Hamburg ~ Germany - ^[4]Dept. of Hematology, University Medical Center Hamburg-Eppendorf ~ Hamburg ~ Germany

259 - MULTIPLE SCLEROSIS GENE NETWORK ANALYSIS

Leticia Diaz-Beltran*^[1], Pablo Villoslada^[2], Dennis P. Wall^[3], Francisco J. Esteban^[1]

- ^[1]Systems Biology Unit, Dep. Experimental Biology, University of Jaen ~ Jaen ~ Spain - ^[2]Department of Neurosciences, IDIBAPS, Hospital Clinic ~ Barcelona ~ Spain - ^[3]Center for Biomedical Informatics & Department of Pediatrics, Harvard Medical School ~ Boston ~ United States



371 - MULTIPLE SCLEROSIS: ASSOCIATION OF EARLY CLINICAL FEATURES WITH ALLELIC VARIANTS OF THE IMMUNORESPONSE GENES AND THEIR COMBINATIONS

Olga Kulakova^{*[1]}, Ekaterina Tsareva^[1], Alexey Boyko^[1], Sergey Shchur^[2], Alexander Favorov^[3], Michael Ochs^[4], Eugeny Gusev^[1], Olga Favorova^[1]

- ^[1]N.I. Pirogov Russian State Medical University, Moscow, Russia - ^[2]Moscow City Multiple Sclerosis Center - Moscow - Russia - ^[3]State Research Center GosNIIgenetika, Moscow, Russia - ^[4]Oncology Biostatistics and Bioinformatics, Johns Hopkins School of Medicine - Baltimore - USA

262 - OVERLAPPING GENES IN AUTISM AND AUTOIMMUNE DISEASES

Leticia Diaz-Beltran^{*[1]}, Francisco J. Esteban^[1], Carlos Cano-Gutierrez^[2], Dennis P. Wall^[3]

- ^[1]Systems Biology Unit, Dep. Experimental Biology, University of Jaén - Jaén - Spain - ^[2]Dep. Computer Science, University of Granada - Granada - Spain - ^[3]Center for Biomedical Informatics & Department of Pediatrics, Harvard Medical School - Boston - United States

491 - PTPN22 ALLELE FREQUENCIES IN ITALIAN MG PATIENTS

Flavia Scuderi^[2], Carlo Provenzano^[2], Mariapaola Marino^[2], Maria Teresa Maiuri^[2], Francesca La Carpia^[2], Roberta Ricciardi^[3], Michelangelo Maestri^[4], Marco Lucchi^[3], Marcella Zollino^[5], Amelia Evoli^[6], Emanuela Bartocioni^{†*[2]}

- ^[2]Istituto di Patologia generale, Università Cattolica S. Cuore - Rome - Italy - ^[3]Dipartimento Cardiotoracico, Azienda Ospedaliera Universitaria Pisana - Pisa - Italy - ^[4]Dipartimento di Neuroscienze, Azienda Ospedaliera Universitaria Pisana - Pisa - Italy - ^[5]Istituto di Genetica Medica, Università Cattolica S. Cuore - Rome - Italy - ^[6]Dipartimento di Neuroscienze, Università Cattolica S. Cuore - Rome - Italy

147 - VALIDATION OF THE CD6, TNFRSF1A AND IRF5 GENES IN MULTIPLE SCLEROSIS IN SPAIN

Bhairavi Swaminathan^{*[1]}, Fuencisla Matesanz^[2], María Cavanillas^[3], Iraide Alloza^[1], David Otaegui^[4], Javier Olascoaga^[5], M. Carmen Cénit^[3], Virginia de las Heras^[6], María García Barcina^[7], Rafael Arroyo^[6], Antonio Alcina^[2], Oscar Fernandez^[8], Alfredo Antiguiedad^[9], Elena Urcelay^[3], Koen Vandebroek^[1]

- ^[1]Neurogenomics Laboratory, University of the Basque Country (UPV/EHU) - Leioa - Spain - ^[2]Instituto de Parasitología y Biomedicina López Neyra, CSIC - Granada - Spain - ^[3]Immunology Department, Hospital Clínico S. Carlos - Madrid - Spain - ^[4]Área de Neurociencias, Instituto de Investigación Sanitaria Biodonostia - San Sebastián - Spain - ^[5]Servicio de Neurología, Unidad de Esclerosis Múltiple, Hospital Donostia - San Sebastián - Spain - ^[6]Neurology Dept. Multiple Sclerosis Unit, H. Clínico S. Carlos - Madrid - Spain - ^[7]Servicio de Genética, Hospital de Basurto - Bilbao - Spain - ^[8]Servicio de Neurología, Instituto de Neurociencias Clínicas, Hospital Carlos Haya - Malaga - Spain - ^[9]Servicio de Neurología, Hospital de Basurto - Bilbao - Spain



Poster Session 4Poster Hall.....13.45 – 15.00

Glial cells

291 - ACTIVIN A INCREASES PHAGOCYTOSIS OF E. COLI K1 BY MICROGLIAL CELLS ACTIVATED BY TLR-AGONISTS

Catharina Diesselberg^{*[1]}, Sandra Ribes^[1], Sandra Redlich^[1], Uwe Michel^[1], Roland Nau^[2], Sandra Ebert^[1]

- ^[1]Universitaetsmedizin Goettingen, Department of Neurology ~ Goettingen ~ Germany - ^[2]Evangelisches Krankenhaus Goettingen-Weende, Department of Geriatrics ~ Goettingen ~ Germany

399 - ACUTE STRESS MAY ACTIVATE MICROGLIAL CELLS IN THE BRAIN VIA MODULATING ADRENAL CORTICOSTERONE

Shuei Sugama^{*[1]}, Takato Takenouchi^[2], Kitani Hiroshi^[3], Makoto Hashimoto^[4]

- ^[1]Nippon Medical School ~ Tokyo ~ Japan - ^[2]National Institute of Agrobiological Sciences ~ Tsukuba ~ Japan - ^[3]National Institute of Agrobiological Sciences ~ Tsukuba ~ Japan - ^[4]Tokyo Metropolitan Institute for Neuroscience ~ Tokyo ~ Japan

347 - ADDITIVE MICROGLIAL-MEDIATED NEURONAL INJURY INDUCED BY AMYLOID-BETA AND BACTERIAL TLR AGONISTS

Sandra Ebert^{*[1]}, Tobias Loleit^[1], Moritz Zeretzke^[1], Stephanie Bunkowski^[1], Sandra Ribes^[1], Roland Nau^[2]

- ^[1]University of Göttingen, Department of Neurology ~ Göttingen ~ Germany - ^[2]Evangelisches Krankenhaus Göttingen-Weende, Department of Geriatrics ~ Göttingen ~ Germany

266 - ANTI-AQUAPORIN-4 ANTIBODY INDUCES ASTROCYTIC CYTOTOXICITY IN THE ABSENCE OF CNS ANTIGEN-SPECIFIC T CELLS

Makoto Kinoshita^{*[1]}, Yuji Nakatsuji^[1], Takashi Kimura^[2], Masayuki Moriya^[1], Kazushiro Takata^[1], Tatsusada Okuno^[3], Atsushi Kumanogoh^[3], Koji Kajiyama^[2], Hiroo Yoshikawa^[2], Saburo Sakoda^[1]

- ^[1]Osaka University Graduate School of Medicine ~ Suita ~ Japan - ^[2]Hyogo College of Medicine ~ Nishinomiya ~ Japan - ^[3]Research Institute for Microbial Diseases, Osaka University ~ Suita ~ Japan

501 - CAMP SPECIFIC PDE4B3 SPLICE VARIANT EXPRESSION IN MALE AND FEMALE MOUSE BRAIN DURING SYSTEMIC INFLAMMATION

Emily Johansson^{*[1]}, Cristina Sanabra^[1], Rocio Martin^[1], Guadalupe Mengod^[1]

- ^[1]IIBB-CSIC (IDIBAPS-CIBERNED) ~ Barcelona ~ Spain

245 - CHARACTERIZATION OF OSTEOPOINTIN EXPRESSION IN THE ISCHEMIC CORE IN A RAT MODEL OF STROKE

Mun-Yong Lee^{*[1]}, Yoo-Jin Shin^[1], Hong Lim Kim^[1], Jeong-Sun Choi^[1], Jung-Ho Cha^[1], Myung-Hoon Chun^[1], Su-Ja Oh^[1]

- ^[1]The Catholic University of Korea ~ Seoul ~ Korea South

180 - CNS SIGNALS PROMOTE THE DIFFERENTIATION OF BONE MARROW-DERIVED CELLS TO MICROGLIA

Jenny Shapiro^{*[1]}, Shai Abutbul^[2], Alon Monsonego^[1]

- ^[1]Ben-Gurion University of the Negev ~ Be'er-Sheva ~ Israel - ^[2]Ben-Gurion University of the Negev ~ Be'er-Sheva ~ Israel

448 - COMPARATIVE ANALYSIS OF GENE EXPRESSION PROFILES OF MICROGLIA FROM DEMYELINATIVE LESIONS IN OSMOTIC DEMYELINATION SYNDROME RAT MODEL

Haruyuki Suzuki^{*[1]}, Yoshihisa Sugimura^[1], Shintaro Iwama^[1], Hiromi Suzuki^[2], Atsushi Kiyota^[1], Makoto Sawada^[2], Yutaka Oiso^[1]

- ^[1]Department of Endocrinology and Diabetes, Nagoya University Graduate School of Medicine ~ Nagoya ~ Japan - ^[2]Department of Brain Functions, Research Institute of Environmental Medicine, Nagoya University Graduate School of Medicine ~ Nagoya ~ Japan



56 - CONTROL OF MICROGLIA CYTOTOXIC ACTIVITIES BY GLIOMA CELLS

Ivana Dokic^{*[1]}, Renate Geißig^[1], Anne Régnier-Vigouroux^[1]

- ^[1]INSERM U701, German Cancer Research Centre, Program Infection and Cancer ~ Heidelberg ~ Germany

566 - CYTOKINES MODULATE CELL DEATH, DEMYELINATION, AND MYELIN REGENERATION IN A MOUSE CEREBELLAR SLICE CULTURE MODEL OF FUNCTIONAL MYELINATION

Andrew Robinson^{*[1]}, Stephen Miller^[1]

- ^[1]Northwestern University ~ Chicago ~ United States

170 - DELAYED AND OPPOSITE EFFECTS OF KININS ON ASTROCYTE PROSTAGLANDIN SYNTHESIS.

Sigal Fleisher-Berkovich^{*[1]}, Talia Filipovich^[1]

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

472 - DISTINCT ALTERATIONS OF GLIAL GAP JUNCTION PROTEINS IN NORMAL APPEARING MULTIPLE SCLEROSIS BRAIN

Irene Sargiannidou^{*[1]}, Kyriaki Markoullis^[2], Andreas Hadjisavvas^[3], Richard Reynolds^[4], Kleopas Kleopa^[5]

- ^[1]The Cyprus Institute of Neurology and Genetics ~ Nicosia ~ Cyprus - ^[2]The Cyprus Institute of Neurology and Genetics ~ Nicosia ~ Cyprus - ^[3]The Cyprus Institute of Neurology and Genetics ~ Nicosia ~ Cyprus - ^[4]Imperial College Faculty of Medicine ~ London ~ United Kingdom - ^[5]The Cyprus Institute of Neurology and Genetics ~ Nicosia ~ Cyprus

151 - EFFECT OF NOTCH INHIBITION ON IFN-G TREATED ASTROCYTES: MICROARRAY ANALYSIS AND IMPLICATION FOR INFLAMMATION

Mike Moro^[1], Joana Côte-Real^[1], Gauthier Dorban^[1], Paul Felten^[1], François Bernardin^[2], Arnaud Müller^[2], Petr Nazarov^[2], Laurent Vallar^[2], Paul Heuschling^[1], Eleonora Morga^{*[1]}

- ^[1]Lab. De Neurobiologie, Life Sciences RU, University of Luxembourg ~ Luxembourg ~ Luxembourg - ^[2]Microarray Center / CRP-Santé ~ Luxembourg ~ Luxembourg

219 - EFFECT OF TNF RECEPTOR 2 ACTIVATION ON PRIMARY OLIGODENDROCYTES

Olaf Maier^[1], Roman Fischer^[1], Harald Wajant^[3], Peter Scheurich^[1], Klaus Pfizenmaier^[1]

- ^[1]Institute of Cell Biology and Immunology, University of Stuttgart ~ Stuttgart ~ Germany - ^[3]Division of Molecular Internal Medicine, Department of Internal Medicine II, University Hospital Würzburg ~ Würzburg ~ Germany

540 - ESTROGEN RECEPTORS REGULATE THE EXPRESSION OF MATRIX METALLOPROTEINASES IN PERIPHERAL GLIA CELLS

Mark Stettner^{*[1]}, Beatrice Martin^[1], Thomas Dehmel^[1], Angelika Köhne^[1], Bernd C. Kieseier^[1]

- ^[1]Clinical and Experimental Neuroimmunology, Department of Neurology, Heinrich-Heine-University ~ Düsseldorf ~ Germany

261 - GAMMA-SECRETASE IS IMPORTANT FOR MICROGLIA ACTIVITY IN ALZHEIMER'S DISEASE

Dorit Farfara^{*[1]}, Dorit Trudler^[1], Niva Segev-Amzaieg^[1], Ronit Galron^[1], Dan Frenkel^[1]

- ^[1]Tel-Aviv University ~ Tel-Aviv ~ Israel

440 - IL-1 BETA STABILIZES IL-6 MRNA IN HUMAN ASTROCYTOMA CELLS

Anneleen Spooren^{*[1]}, Guy Haegeman^[1], Sarah Gerlo^[1]

- ^[1]Ghent University ~ Ghent ~ Belgium



260 - IMMUNOCHEMICAL CHANGES OF THE NEURAL CELLS IN ISCHEMIC RAT RETINAS EVOKED BY AN ISCHEMIA/REPERFUSION INJURY AND BY VENOUS CAUTERIZATION

JiMan Shin^{*[1]}, Jong-Hyun Lee^{*[1]}, Myung-Hoon Chun^{*[1]}, Su-Ja Oh^{*[1]}

- ^[1]Catholic University of Korea ~ Seoul ~ Korea South

354 - IN VITRO DIFFERENTIATION OF LINEAGE-NEGATIVE BONE MARROW CELLS AND MONOCYTE INTO MICROGLIA-LIKE CELLS

Daisuke Noto^{*[1]}, Kazuya Takahashi^[2], Takashi Yamamura^[3], Masahito Yamada^[1], Sachiko Miyake^[3]

- ^[1]Department of Neurology and Neurobiology of Aging, Kanazawa University Graduate School of Medical Science ~ Kanazawa ~ Japan - ^[2]Department of Neurology, National Hospital Organization Iou National Hospital ~ Kanazawa ~ Japan - ^[3]Department of Immunology, National Institute of Neuroscience, National Center of Neurology and Psychiatry ~ Tokyo ~ Japan

194 - INDUCTION OF VASCULAR ENDOTHELIAL GROWTH FACTOR RECEPTOR-3 MRNA IN GLIAL CELLS FOLLOWING FOCAL CEREBRAL ISCHEMIA IN RATS

Yoo-Jin Shin^{*[1]}, Choi Jeong-Sun^[1], Jung-Ho Cha^[1], Mun-Yong Lee^[1]

- ^[1]The Catholic University of Korea ~ Seoul ~ Korea South

393 - INJURY TO PERIPHERAL GUSTATORY NERVE INITIATES A CENTRAL IMMUNE RESPONSE IN THE BRAINSTEM

Dianna L. Bartel^{*[1]}, Thomas E. Finger^[1]

- ^[1]University Colorado Denver, Anschutz Medical Campus ~ Aurora ~ United States

290 - LIVER X RECEPTORS REGULATE CHOLESTEROL HOMEOSTASIS IN OLIGODENDROCYTES

Katherine Nelissen^{*[1]}, Monique Mulder^[2], Ilse Smets^[3], Marcel Ameloot^[1], Jerome Hendriks^[1]

- ^[1]Biomedical Research Institute, Hasselt University ~ Diepenbeek ~ Belgium - ^[2]Department of Internal Medicine, Division of Pharmacology, Vascular and Metabolic Diseases, Rotterdam University ~ Rotterdam ~ Netherlands - ^[3]PHL University college, Department PHL-Bio ~ Diepenbeek ~ Belgium

454 - MINOCYCLINE FORCES MICROGLIA IN AN "EARLY ACTIVATION STAGE", INDEPENDENTLY OF THEIR ACTIVATION HISTORY

Bert Brône^{*[1]}, Eef Dries^[1], Daniel Janssen^[1], Jean-Michel Rigo^[1]

- ^[1]University Hasselt ~ Diepenbeek ~ Belgium

86 - MODULATION OF MICROGLIAL PHAGOCYTOSIS AND PROCESS MOTILITY BY PURINES

Larisa Bulavina^{*[1]}, Katrin Färber^[2], Vitaly Matyash^[1], Helmut Kettenmann^[1]

- ^[1]Max Delbrueck Center for Molecular Medicine ~ Berlin ~ Germany - ^[2]Max Delbrueck Center for Molecular Medicine ~ Berlin ~ Germany

480 - PHAGOCYTOSIS OF CRYPTOCOCCUS NEOFORMANS BY MICROGLIAL CELLS IS INCREASED BY TLR-AGONISTS

Sandra Redlich^{*[1]}, Diesselberg Catharina^[1], Sandra Ribes^[1], Sandra Ebert^[1], Roland Nau^[2]

- ^[1]University of Göttingen, Department of Neurology ~ Göttingen ~ Germany - ^[2]Evangelisches Krankenhaus Göttingen-Weende, Department of Geriatrics ~ Göttingen ~ Germany

307 - PRODUCTIONS AND FUNCTIONS OF INTERLEUKIN-33 IN THE CENTRAL NERVOUS SYSTEM

Jun Kawanokuchi^{*[1]}, Satoko Yasuoka^[1], Yukiko Doi^[1], Jianfeng Liang^[1], Mariko Noda^[1], Bijay Parajuli^[1], Yoshifumi Sonobe^[1], Hideyuki Takeuchi^[1], Tetsuya Mizuno^[1], Akio Suzumura^[1]

- ^[1]RIEM, Nagoya University ~ Nagoya ~ Japan



97 - REGULATION OF PROGRANULIN EXPRESSION IN HUMAN MICROGLIA AND ASTROCYTES: IMPLICATIONS FOR NEUROINFLAMMATORY DISEASES

Hyeon-Sook Suh^{*[1]}, Namjong Choi^[1], Daniela Krause^[1], Sunhee Lee^[1]

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

67 - SEROTONIN MODULATES MICROGLIAL PHAGOCYTOSIS AND MOTILITY

Grietje Tessmann^{*[1]}, Vitali Matyash^[1], Katrin Färber^[1], Helmut Kettenmann^[1]

- ^[1]Cellular Neuroscience, MDC ~ Berlin ~ Germany

529 - THE GLIAL RESPONSE TO INTERLEUKIN-17

Jane Rodgers^{*[1]}, Stephen Miller^[1]

- ^[1]Northwestern University ~ Chicago ~ United States

73 - THE ROLE OF 3-HYDROXYANTHRANILIC ACID, A TRYPTOPHAN METABOLITE, AS A NEUROPROTECTIVE AGENT IN NEUROINFLAMMATION

Daniela Krause^{*[1]}, Hyeon-Sook Suh^[2], Namjong Choi^[2], Meng-Liang Zhao^[2], Sunhee Lee^[2]

- ^[1]Ludwig-Maximilians University ~ Munich ~ Germany - ^[2]Albert-Einstein College of Medicine ~ New York City ~ United States

498 - UNCONJUGATED BILIRUBIN INDUCES OLIGODENDROCYTE PROGENITOR CELL DEATH FOLLOWING A PROGRAMMED COURSE OF INTRACELLULAR EVENTS

Andreia Barateiro^[1], Ana R Vaz^[1], Sandra L Silva^[1], Adelaide Fernandes^[1], Dora Brites^{*[1]}

- ^[1]Research Institute for Medicines and Pharmaceutical Sciences (iMed.UL/CPM), Faculty of Pharmacy, University of Lisbon ~ Lisbon ~ Portugal

543 - WHITE MATTER REACTIVE ASTROCYTES EXPRESS NUCLEAR ESTROGEN RECEPTOR ALPHA (ESR1) IN EXPERIMENTAL AUTOIMMUNE ENCEPHALOMYELITIS AND MULTIPLE SCLEROSIS

Sebastien N. Giraud^[2], Daniele Seilhean^[3], Danielle Pham-Dinh^[4], Arnaud B. Nicot^{*[5]}

- ^[2]Université Pierre et Marie Curie-UPMC ~ Paris ~ France - ^[3]AP-HP Neuropathology/ INSERM UMRS 975/ CNRS UMR 7225 ~ Paris ~ France - ^[4]INSERM UMRS 676 ~ Paris ~ France - ^[5]Institut National de la Santé et de la Recherche Médicale UMRS 643/ Université de Nantes ~ Nantes ~ France



Session 5.....Poster Hall.....13.45 – 15.00
Psychoimmunomodulation

317 - EFFECT OF COPAXONE® TREATMENT ON CMS INDUCED ALTERATIONS IN BEHAVIOUR AND TH1/TH2 BALANCE IN BALB/C MICE.

María Laura Palumbo^[4], María Aurelia Zorrilla-Zubilete^{*[3]}, Graciela Alicia Cremaschi^[3], Ana María Genaro^[3]

- ^[3]CEFyBO-CONICET-UBA, 1° Cátedra de Farmacología, Fac. Medicina, U.B.A ~ Buenos Aires ~ Argentina - ^[4]CEFyBO-CONICET-UBA, 1° Cátedra de Farmacología, Fac. Medicina, U.B.A ~ Buenos Aires ~ Argentina

321 - EFFECT OF PRENATAL STRESS ON IMMUNE RESPONSE AFTER ACUTE AND CHRONIC STRESS EXPOSURE.

Cecilia Gabriela Pascuan^[1], Miriam Ruth Wald^[1], María Laura Palumbo^{*[1]}, Ana María Genaro^[1]

- ^[1]CEFyBO-CONICET-Universidad de Buenos Aires ~ Buenos Aires ~ Argentina

75 - ELEVATED LEVELS OF AUTOANTIBODIES AGAINST NEUROTRANSMITTER RECEPTOR-RELATED MOLECULES IN SCHIZOPHRENIA

Amanda Jones^{*[2]}, Bryan Mowry^[3], Michael P. Pender^[4], Judith Greer^[2]

- ^[2]The University of Queensland Centre for Clinical Research ~ Brisbane ~ Australia - ^[3]Queensland Brain Institute, The University of Queensland ~ Brisbane ~ Australia - ^[4]School of Medicine, The University of Queensland ~ Brisbane ~ Australia

349 - GENDER DIFFERENCES IN THE CORRELATION OF BEHAVIOR, REDOX AND IMMUNOLOGICAL PARAMETERS IN VERY OLD C57B/129 MICE

Paula Ramírez-Boix^{*[1]}, Oskarina Hernández^[2], Ada Celaya^[2], Mónica De la Fuente^[2], Lydia Giménez-Llort^[1]

- ^[1]Dept. of Psychiatry & Forensic Medicine, Institute of Neurociencias, Universitat Autònoma de Barcelona ~ Bellaterra ~ Spain - ^[2]Dept. of Physiology (Animal Physiology II), Universidad Complutense de Madrid ~ Madrid ~ Spain

593 - NEONATAL MATERNAL DEPRIVATION INDUCES LONG-TERM INCREASES IN CYTOKINE PLASMA LEVELS THAT ARE MODULATED BY A HIGH FAT DIET

María-Paz Viveros^{*[1]}

- ^[1]Complutense University, School of Biological Sciences ~ Madrid ~ Spain

351 - PREMORBID BEHAVIORAL INDIVIDUAL DIFFERENCES, SICKNESS BEHAVIOR AND SURVIVAL INDUCED BY LIPOPOLYSACCHARIDE IN ADULT AND OLD C57BL6 MICE

Lydia Giménez-Llort^[1], Paula Ramírez-Boix^{*[1]}, Mónica De la Fuente^[2]

- ^[1]Dept. of Psychiatry & Forensic Medicine, Institute of Neurociencias, Universitat Autònoma de Barcelona ~ Bellaterra ~ Spain - ^[2]Dept. of Physiology (Animal Physiology II), Universidad Complutense de Madrid ~ Madrid ~ Spain

13 - ROLE AND MECHANISM OF ACTION OF AUTO-ANTIBODIES IN THE INDUCTION OF BEHAVIORAL ABNORMALITIES IN A RAT MODEL OF STREPTOCOCCI-RELATED NEUROPSYCHIATRIC DISORDERS.

Dafna Lotan^{*[1]}, Lior Brimberg^[1], Madeleine Cunningham^[2], Daphna Joel^[1]

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

277 - SINGLE ELECTRICAL STIMULATION OF THE BED NUCLEUS OF THE STRIA TERMINALIS AND THE MEDIAL SEPTAL NUCLEUS INCREASES PERIPHERAL BLOOD NATURAL KILLER CELL CYTOTOXICITY IN RATS

Dorota Myslińska^{*[1]}, Karolina Plucinska^[1], Dorota Redzimska^[1], Ziemowit Ciepielewski^[1], Wojciech Glac^[1], Piotr Badtke^[1], Danuta Wrona^[1]

- ^[1]Department of Animal Physiology, University of Gdansk ~ Gdansk ~ Poland



269 - SPLEEN LYMPHOCYTE POPULATIONS AFTER EXPOSURE TO OPEN FIELD STRESS AND DESIPRAMINE TREATMENT IN RATS DIFFERING IN SPONTANEOUS LOCOMOTOR ACTIVITY.

Magdalena Listowska*^[1], Wojciech Głac^[1], Karolina Płucinska^[1], Dorota Mysłinska^[1], Piotr Badtke^[1], Paulina Gradziń^[1], Marta Kubera^[2], Ziemowit Ciepielewski^[1], Danuta Wrona^[1]

- ^[1]Department of Animal Physiology, University of Gdansk. ~ Gdansk ~ Poland - ^[2]Department of Experimental Neuroendocrinology, Institute of Pharmacology, Polish Academy of Sciences in Kraków. ~ Kraków ~ Poland

538 - THE EFFECT ON SALIVARY BIOMARKERS IN AWAKENING RESPONSE AFTER TWO WEEKS SLEEP TUTORIAL

Kazumichi Suguri*^[1], Hideki Tanaka^[2], Yuko Okamoto^[2], Tomoyo Nomura^[2], Shusaku Nomura^[1]

- ^[1]Nagaoka University of Technology ~ Nagaoka ~ Japan - ^[2]Hiroshima International University ~ Higashihiroshima ~ Jordan



Poster Session 6Poster Hall13.45 – 15.00
Biomarkers

603 - IRF5 GENE VARIANT AS BIOMARKER TO PREDICT THE INTERFERON BETA RESPONSE IN MULTIPLE SCLEROSIS

Saskia Vosslander^[1], Laura F. van der Voort^[2], Ivo J. van den Elskamp^[3], Roel Heijmans^[1], Cristin Aubin^[4], Bernard M.J. Uitdehaag^[5], J. Bart A. Crusius^[1], Tineke C.T.M. van der PouwKraan^[6], David Hafler^[8], Philip De Jager^[7], Joep Killestein^[2], Chris H. Polman^[2], Cornelis L. Verweij^[1]

- ^[1]VU University Medical Center, Department of Pathology, Amsterdam, The Netherlands - ^[2]VU University Medical Center, Department of Neurology, Amsterdam, The Netherlands - ^[3]VU University Medical Center, Department of Radiology, Amsterdam, The Netherlands - ^[4]Broad Institute of Harvard and Massachusetts Institute of Technology, Program in Medical and Population Genetics, Cambridge, USA - ^[5]VU University Medical Center, Department of Epidemiology and Biostatistics, Amsterdam, The Netherlands - ^[6]VU University Medical Center, Department of Molecular Cell Biology and Immunology, Amsterdam, The Netherlands - ^[7]Program in Translational NeuroPsychiatric Genomics, Center for Neurologic Diseases, Department of Neurology, Brigham and Women's Hospital and Harvard Medical School, Boston, USA - ^[8]Departments of Neurology and Immunobiology, Yale School of Medicine, USA

68 - B CELL SURVIVAL FACTORS IN MULTIPLE SCLEROSIS DISEASE ACTIVITY

Sara Thompson^{*(1)}, Joanne Jones^[1], Vicki Robertson^[1], Alastair Compston^[1], Alasdair Coles^[1]

- ^[1]University of Cambridge ~ Cambridge ~ United Kingdom

34 - CORRELATION OF BLOOD BIOMARKERS WITH DIFFUSION TENSOR IMAGING FINDINGS IN MULTIPLE SCLEROSIS

Renuka Natarajan^{*(3)}, Sanna Rinta^[3], Prasun Dastidar^[4], Irina Elovaara^[4]

- ^[3]Neuroimmunology Unit, Medical School, University of Tampere ~ Tampere ~ Finland - ^[4]Department of Neurology, Tampere University Hospital ~ Tampere ~ Finland

531 - CX3CR1 POLYMORPHISMS IN MULTIPLE SCLEROSIS

Coralie Chanvillard^{*(3)}, Bhairavi Swaminathan^[2], Iraide Alloza^[2], Koen Vandebroek^[2], Carmen Infante-Duarte^[3]

- ^[2]Neurogenomiks, Ikerbasque and Universidad del Pais Vasco (UPV/EHU) ~ Leioa ~ Spain - ^[3]Experimental Neuroimmunology, Experimental and Clinical Research Center, Charité Universitätsmedizin ~ Berlin ~ Germany

553 - DETECTION AND QUANTIFICATION OF MICRORNA EXPRESSION IN HUMAN PERIPHERAL BLOOD MICROVESICLES FROM MULTIPLE SCLEROSIS PATIENTS TREATED WITH INTERFERON-BETA-1B

Madhan Thamilarasan^{*(2)}, Dirk Koczan^[2], Robert Hermann Goertsches^[2], Michael Hecker^[2], Hans-Juergen Thiesen^[2], Uwe Klaus Zettl^[2]

- ^[2]University of Rostock ~ Rostock ~ Germany

322 - EFFECT OF PRENATAL STRESS ON BEHAVIOUR AFTER ACUTE AND CHRONIC STRESS EXPOSURE. INVOLVEMENT OF NEUROTROPHINS.

Cecilia Gabriela Pascuan^[1], María Laura Palumbo^[1], María Aurelia Zorrilla-Zubilete^{*(1)}, Ana María Genaro^[1]

- ^[1]CEFYO-CONICET-UBA, Facultad de Medicina, Buenos Aires, Argentina

362 - EXPRESSION OF APOPTOSIS-RELATED GENES IN BLOOD OF CLINICALLY ISOLATED SYNDROME AND RELAPSING-REMITTING MULTIPLE SCLEROSIS PATIENTS

Sanna Rinta^{*(2)}, Raunio Minna^[2], Irina Elovaara^[2]

- ^[2]Neuroimmunology Unit, Medical School, University of Tampere and Tampere University Hospital ~ Tampere ~ Finland



392 - REMARKABLY RAISED B CELL ATTRACTING FACTOR (BCA)-1 IN CSF OF INTRAVASCULAR LARGE B-CELL LYMPHOMA (IVL)

Yoshiharu Takata^{*[1]}, Osamu Watanabe^[1], Kumiko Michizono^[1], Eiji Matsuura^[1], Kimiyoshi Arimura^[1], Hiroshi Takashima^[1]

- ^[1]Department of Neurology and Geriatrics, Kagoshima University Graduate School of Medical and Dental Science ~ Kagoshima ~ Japan

212 - SEARCH OF NEW BIOLOGICAL MARKERS OF INTERFERON-BETA THERAPY

Sunny Malhotra^{*[3]}, Marta Fernández^[3], Francisco Pérez-Miralles^[3], Florian Deisenhammer^[2], Xavier Montalban^[3], Manuel Comabella^[3]

- ^[2]Clinical Department of Neurology, Innsbruck Medical University, Innsbruck, Austria ~ Innsbruck ~ Austria - ^[3]Unitat de Neuroimmunologia Clínica (UNIC), CEM-Cat, Hospital Universitari Vall d'Hebron (HUVH) ~ Barcelona ~ Spain

121 - SERUM AND CEREBROSPINAL FLUID ANGIOTENSIN II LEVELS IN OPTIC NEURITIS AND MULTIPLE SCLEROSIS

Matílda Degn Vinther^{*[3]}, Lars Rhorbjørn Jensen^[2], Jette Frederiksen^[3]

- ^[2]Department of Clinical Physiology, Glostrup Hospital ~ Glostrup ~ Denmark - ^[3]Department of Neurology, Glostrup Hospital ~ Glostrup ~ Denmark

645 - DEVELOPING RETINA SPECTROSCOPY FOR THE STUDY OF NEUROINFLAMMATION

Alice Taubes^{*[1]}, Monica Marro Sanchez^[2], Stefan Balint^[2], Beatriz Moreno^[1], Begona Fernandez Diez^[1], Nagore Escala^[1], Dmitri Petrov^[2], Pablo Villoslada^[1]

- ^[1]IDIBAPS, Hospital Clinic Department of Neurosciences, Barcelona, Spain - ^[2]ICFO, The Institute of Photonic Sciences, Barcelona, Spain



Poster Session 7Poster Hall13.45 – 15.00

Infections

287 - AN IN VITRO STUDY OF MYCOBACTERIUM TUBERCULOSIS NEURAL INFECTION

Nai-Jen Hsu^{*[1]}, Philippa Randall^[1], Roanne Keeton^[1], Boipelo Sebesho^[1], Nasiema Allie^[1], Lauriston Kellaway^[1], Muazzam Jacobs^[1]

- ^[1]University of Cape Town ~ Cape Town ~ South Africa

470 - CYTOKINE SECRETION OF CD4+ T CELLS IN SUBACUTE SCLEROSING PANENCEPHALITIS PATIENTS

Sibel P. Ventür^{*[1]}, Serap Uysal^[2], Candan Gürses^[1], Veysi Demirbilek^[2], Safa Baris^[3], Özlem Çokar^[4], Zuhal Yapıcı^[1], Ayper Somer^[1], Güher Saruhan-Direskeneli^[1]

- ^[1]I.U. Istanbul Medical Faculty ~ Istanbul ~ Turkey - ^[2]I.U. Cerrahpasa Medical Faculty ~ Istanbul ~ Turkey - ^[3]M.U. Marmara Medical Faculty ~ Istanbul ~ Turkey - ^[4]Haseki Hospital ~ Istanbul ~ Turkey

132 - DNA SEQUENCES OF PARACHLAMYDIA LIKE ORGANISMS IN CSF OF PATIENTS WITH NEUROLOGICAL DISORDERS

Carlo Contini^[1], Silva Seraceni^[1], Massimiliano Castellazzi ^{*[1]}, Carmine Tamborino^[1], Enrico Granieri^[1], Enrico Fainardi^[2]

- ^[1] University Study of Ferrara ~ Ferrara ~ Italy - ^[2]Hospital S. Anna ~ Ferrara ~ Italy

197 - EBV-SPECIFIC INTRATHECAL OLIGOCLONAL ANTIBODY RESPONSE IN MULTIPLE SCLEROSIS PATIENTS

Massimiliano Castellazzi^{*[1]}, Carmine Tamborino^[1], Giovanna Curreli^[1], Eleonora Baldi^[2], Silva Seraceni^[1], Maria Rosaria Tola^[2], Enrico Granieri^[1], Carlo Contini^[1], Enrico Fainardi^[2]

- ^[1]University of Ferrara ~ Ferrara ~ Italy - ^[2]Arcispedale S. Anna ~ Ferrara ~ Italy

493 - FINE SPECIFICITY OF THE B CELL RESPONSE TO EBNA-1: A POTENTIAL LINK BETWEEN MULTIPLE SCLEROSIS AND INFECTIOUS MONONUCLEOSIS

Rosella Mechelli^{*[1]}, Jourdan Anderson^[2], Viviana Annibali^[1], Stefania Cannoni^[1], Daniela Vittori^[1], Giulia Coarelli^[1], Francesca Aloisi^[3], Giovanni Ristori^[1], Judith James^[2], Marco Salvetti^[1]

- ^[1]Sapienza University ~ Rome ~ Italy - ^[2]Oklahoma Medical Research Foundation ~ Oklahoma City ~ United States - ^[3]Istituto Superiore di Sanità ~ Rome ~ Italy

443 - GENETIC LOCUS ON CHROMOSOME 4 COMPOSED OF IMMUNE-RELATED GENES REGULATE HERPES SIMPLEX-1 ENCEPHALITIS IN RAT RECOMBINANT INBRED STRAINS

Nada Abdelmagid^{*[1]}, Biborka Bereczky-Veress ^[1], Tomas Bergström^[2], Birgit Sköldenberg^[1], Norbert Hubner^[3], Tomas Olsson^[1], Michal Pravenec^[4], Margarita Díez^[1]

- ^[1]Karolinska Institutet ~ Stockholm ~ Sweden - ^[2]Göteborg University ~ Göteborg ~ Sweden - ^[3]Max-Delbruck-Center for Molecular Medicine ~ Berlin ~ Germany - ^[4]Czech Academy of Sciences ~ Prague ~ Czech Republic

484 - HUMAN SIMPLEX VIRUS MAY CONTRIBUTE TO THE PATHOGENESIS OF MULTIPLE SCLEROSIS

K.I. Voumvourakis ^[1], D.K. Kitsios^[1], A. Poulifios^[1], G. Dervenoulas^{*[1]}, G. Gasparinatos^[1], R. Antonelou^[1], S. Tsiodras^[2], E. Stamboulis^[1]

- ^[1]2nd Department of Neurology, Attikon University hospital, University of Athens, Medical School ~ Athens ~ Greece - ^[2]5th Department of Internal Medicine, Attikon University hospital, University of Athens, Medical School ~ Athens ~ Greece



516 - IN VIVO HIV-1 VPR MOLECULAR DIVERSITY: DOMAIN- AND RESIDUE- DEPENDENT NEUROIMMUNITY AND NEURODEGENERATION

Hong Na^[1], Shaona Acharjee^[1], Gareth Jones^[2], Pornpun Vivithanaporn^[1], Farshid Noorbakhsh^[1], Nicola Barsby^[1], Ferdinand Maingat^[1], Klaus Ballanyi^[1], Carlos Pardo^[3], Eric A Cohen^[5], Christopher Power^{*[1]}

- ^[1]University of Alberta ~ Edmonton ~ Canada - ^[2]University of Calgary ~ Calgary ~ Canada - ^[3]Johns Hopkins University ~ Baltimore ~ United States - ^[5]University of Montreal ~ Montreal ~ Canada

3 - INDUCTION OF AUTOIMMUNE ENCEPHALOMYELITIS IN A PRIMATE WITH GAMMA-HERPESVIRUS INFECTED B-CELL LINES

Krista Haanstra^{*[1]}, Jacqueline Wubben^[1], Margreet Jonker^[1], Bert 't Hart^[1], Dave Estêvão^[1]

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

524 - NEURONAL-ASTROGLIAL INTERACTIONS WITH TOXOPLASMA GONDII CYSTS IN THE BRAIN

Halonen Sandra^{*[1]}, Tyler Melzer^[1], Harlan Cranston^[1], Betsey Pitts^[1]

- ^[1]Montana State University ~ Bozeman, MT ~ United States

14 - PREVIOUS INFECTION WITH MURINE GAMMA HERPESVIRUS 68 MODIFIES THE COURSE OF EAE IN C57BL/6 MICE

Costanza Casiraghi^{*[1]}, Marc Horwitz^[1]

- ^[1]The University of British Columbia ~ Vancouver ~ Canada

422 - RARE AND MINUTE REACTIVATION OF JC VIRUS IN NATALIZUMAB LONG-TERM TREATED MULTIPLE SCLEROSIS PATIENTS: A CROSS SECTIONAL MULTICENTER STUDY

Alice Laroni^{*[5]}, Luigi M. Grimaldi^[2], Claudio G. Giacomazzi^[5], Jennifer L. McDermott^[5], Isabella Martini^[3], Gaetano Vitello^[2], Francesca Rinaldi^[6], Valentina Militello^[7], Luisa Barzon^[6], Maria Pia Sormani^[5], Elisabetta Capello^[5], Antonio Uccelli^[5], Paolo Gallo^[6], Giorgio Palù^[6], Giovanni Luigi Mancardi^[5], Oliviero E. Varnier^[5]

- ^[2]Fondazione Istituto San Raffaele "G. Giglio" ~ Cefalù ~ Italy - ^[3]Advanced Biotechnology Centre ~ Genoa ~ Italy - ^[5]University of Genova ~ Genova ~ Italy - ^[6]University of Padova ~ Padova ~ Italy - ^[7]Padova University Hospital ~ Padova ~ Italy

313 - WHAT HAPPENS WHEN TRYPANOSOMA CRUZI INVADES MOUSE SPINAL CORD THAT LACKS IL-12 AND IL-23?

André Luís Bombeiro^{*[1]}, Lígia Antunes Gonçalves^[2], Cláudio Romero Farias Marinho^[3], Carlos Penha-Gonçalves^[2], Maria Regina D'Império Lima^[1], Gerson Chadí^[4], José María Álvarez^[1]

- ^[1]Department of Immunology, University of São Paulo ~ São Paulo ~ Brazil - ^[2]Instituto Gulbenkian de Ciência ~ Oeiras ~ Portugal - ^[3]Department of Parasitology, University of São Paulo ~ São Paulo ~ Brazil - ^[4]Department of Neurology, University of São Paulo School of Medicine ~ São Paulo ~ Brazil

643 - CLINICAL RELEVANCE OF ANTIBODY INDEX IN THE RETROSPECTIVE DIAGNOSIS OF CYTOMEGALOVIRUS INFECTION

Elena Noris Garcia^{*[1]}, María Teresa Interina Morales^[1], Marlen Gonzalez Fernandez^[1]

- ^[1]LABCEL, Cuba

227 - COGNITIVE AND BEHAVIOUR ALTERATIONS DURING EXPERIMENTAL TRYPANOSOMA CRUZI-INFECTION ARE INDEPENDENT OF CNS INFLAMMATION

Andrea Alice Silva^{*[1]}, Glaucia Vilar^[1], Amanda S. Souza^[2], Mônica Rocha^[3], Joseli Lannes-Vieira^[1]

- ^[1]Laboratório de Biologia das Interações, IOC/Fiocruz, Rio de Janeiro, RJ, Brasil - ^[2]Departamento de Patologia, UFF, Niterói, RJ, Brasil - ^[3]Laboratório de Farmacologia da Neuroplasticidade e do Comportamento, UFRJ, Rio de Janeiro, J, Brasil



678 - HOST PROTECTIVE ROLE OF TNF AND MYD88 IN CENTRAL NERVOUS SYSTEM TUBERCULOSIS IN A MOUSE MODEL

Boïpelo Sebesho^{*[1]}, Lauriston Kellaway^[2], Muazzam Jacobs^[1]

- ^[1]Division of Immunology, University of Cape Town, South Africa - ^[2]Department of Human Biology, University of Cape Town, South Africa

109 - EXPLORATION OF IMMUNE COMPETENCIES OF VIRAL-SPECIFIC CD8+ T CELLS IN MS PATIENTS USING TETRAMERS AND FUNCTIONAL CTL ASSAYS

Samantha Jílek^{*[2]}, Andreas Lysandropoulos^[2], Anastasia Zekeridou^[2], Mathieu Canales^[2], Myriam Schluep^[2], Giuseppe Pantaleo^[2], Renaud A. Du Pasquier^[2]

- ^[2]Centre Hospitalier Universitaire Vaudois (CHUV) ~ Lausanne ~ Switzerland



Poster Session 8Poster Hall13.45 – 15.00
Pathology

**542 - AXONAL LOSS AND NEUROFILAMENT PHOSPHORYLATION CHANGES
ACCOMPANY LESION DEVELOPMENT AND CLINICAL PROGRESSION IN MULTIPLE
SCLEROSIS**

Lucas Schirmer^{*[1]}, Jack P. Antel^[2], Wolfgang Brück^[3], Christine Stadelmann^[3]

- ^[1]Department of Neurology, Klinikum rechts der Isar, Technische Universität München ~ Munich ~ Germany - ^[2]Montreal Neurological Institute, McGill University ~ Montreal ~ Canada - ^[3]Department of Neuropathology, University Medical Centre Göttingen ~ Goettingen ~ Germany

**431 - FAILURE OF REMYELINATION IN MS: FGF9 IS UP-REGULATED IN SOME
CHRONICALLY DEMYELINATED MS LESIONS AND INHIBITS MYELINATION**

Hema Mohan^[1], Elliott Christine^[2], Markus Krumbholz^[3], Ariel Arthur^[2], Susan C. Barnett^[2], Christine Stadelmann^[4], Hartmut Wekerle^[1], Reinhard Hohlfeld^[3], Hans Lassmann^[5], Chris Linington^[2], Edgar Meinl^{*[3]}

- ^[1]Max-Planck-Institute of Neurobiology ~ Martinsried ~ Germany - ^[2]Division of Clinical Neurosciences, University of Glasgow ~ Glasgow ~ United Kingdom - ^[3]Institute of Clinical Neuroimmunology, LMU ~ Munich ~ Germany - ^[4]Institute of Neuropathology ~ Göttingen ~ Germany - ^[5]Center for Brain Research, Medical University of Vienna ~ Vienna ~ Austria

9 - IMMUNOPATHOGENESIS OF BRAIN LESIONS OF NASU-HAKOLA DISEASE

Jun-ichi Satoh^{*[1]}, Hiroko Tabunoki^[1], Seung U. Kim^[2], Tsuyoshi Ishida^[3], Kenji Jinnai^[4], Kunimasa Arima^[5]

- ^[1]Meiji Pharmaceutical University ~ Tokyo ~ Japan - ^[2]University of British Columbia ~ Vancouver ~ Canada - ^[3]International Medical Center ~ Chiba ~ Japan - ^[4]Hyogo-Cyuo National Hospital ~ Hyogo ~ Japan - ^[5]National Center of Neurology and Psychiatry ~ Tokyo ~ Japan

**478 - SIGNIFICANTLY INCREASED GLUCOCORTICOID RELATED GENE EXPRESSION
IN NAWM OF MILD MS**

Jeroen Melief^[1], Debbie Hendrickx^[1], Corbert van eden^[1], Jorg Hamann^[2], Robert Hoek^[1], Inge Huitinga^{*[1]}

- ^[1]Netherlands Institute for Neuroscience ~ Amsterdam ~ Netherlands - ^[2]Academic Medical Centre ~ Amsterdam ~ Netherlands

571 - SPECIES DIFFERENCES IN ORIGIN OF REACTIVE MICROGLIA

Bente Finsen^{*[1]}, Rikke Gregersen^[1], Bettina Hjelm Clausen^[1], Martin Wirenfeldt^[1], Helle Hvilsted Nielsen^[1], Ishar Dalmau^[1], Niels Henrik Diemer^[2], Frederik Dagnaes-Hansen^[3], Flemming Fryd Johansen^[2], Armand Keating^[4], Tomas Deierborg^[5], Kate Lykke Lambertsen^[1]

- ^[1]University of Southern Denmark ~ Odense C ~ Denmark - ^[2]University of Copenhagen ~ Copenhagen ~ Denmark - ^[3]University of Aarhus ~ Aarhus C ~ Denmark - ^[4]Ontario Cancer Institute ~ Toronto ~ Canada - ^[5]University of Lund ~ Lund ~ Sweden



Workshop 1 Auditorium

Neuroinflammation in neurological diseases I

Chairs: D. Karussis and P. Villoslada

5 - THE ROLE OF INTERFERON-GAMMA IN TOXIN INDUCED PARKINSON'S DISEASE-LIKE PATHOLOGY.

Shawn Hayley^{*[1]}, Emily Mangano^[1] 15.00
- ^[1]Carleton University ~ Ottawa ~ Canada

39 - SPONTANEOUS DEMYELINATING AUTOIMMUNE NEUROPATHY IN ICAM-1 DEFICIENT NOD MICE

Gerd Meyer zu Hörste^{*[1]}, Anne K. Mausberg^[1], Houda El-Haddad^[1], Stephan Martin^[2], Hans-Peter Hartung^[1], Bernd C. Kieseier^[1] 15.15
- ^[1]Heinrich-Heine-University ~ Duesseldorf ~ Germany - ^[2]German Diabetes Center ~ Duesseldorf ~ Germany

94 - THE ROLE OF INTERLEUKIN-7 RECEPTOR ALPHA IN EXPERIMENTAL AUTOIMMUNE ENCEPHALOMYELITIS

Jessica Jopek Ashbaugh^{*[1]}, Roberta Brambilla^[1], Thomas Malek^[1], John Bethea^[1] 15.30
- ^[1]University of Miami ~ Miami ~ United States

96 - EXOSOMES: MEDIATORS OF PREGNANCY-ASSOCIATED IMMUNE MODULATION AND NEUROPROTECTION IN EXPERIMENTAL AUTOIMMUNE ENCEPHALOMYELITIS

Jessica Williams^{*[1]}, Kristen Smith^[1], Gina Cox^[1], Todd Shawler^[1], Dana McTigue^[1], Caroline Whitacre^[1] 15.45
- ^[1]The Ohio State University ~ Columbus ~ United States

155 - MACROPHAGE MIGRATION INHIBITORY FACTOR PROMOTES CENTRAL NERVOUS SYSTEM PATHOLOGY IN A MODEL OF NEUROINFLAMMATION

Gina Mavrikis Cox^{*[1]}, J Alexander^[1], A Kithcart^[1], J Williams^[1], K Smith^[1], T Shawler^[1], A Satoskar^[1], C.C. Whitacre^[1] 16.00
- ^[1]The Ohio State University ~ Columbus, OH ~ United States

161 - MCAM DEFINES A SUBSET OF CD4+CD45RO+ TH17 CELLS INVOLVED IN CNS INFLAMMATION

Catherine Larochelle^[1], Romain Cayrol^[1], Igal Ifergan^[1], Hania Kebir^[1], Jorge Ivan Alvarez^[1], Emilie Viel^[1], Lyne Bourbonnière^[1], Diane Beauseigle^[1], Arsalan S. Haqqani^[3], Danica Stanimirovic^[3], Nathalie Arbour^[1], Alexandre Prat^{*[1]} 16.15
- ^[1]Centre Hospitalier de l'Université de Montréal-Notre-Dame Hospital ~ Montreal ~ Canada - ^[3]Institute for Biological Sciences, National Research Council of Canada ~ Ottawa ~ Canada



Workshop 2.....Tramuntana 2

Models of disease

Chairs: T. Olsson and J. Oksenberg

12 - A CHRONIC "COMPLEX" EAE ASSOCIATED WITH WELL-DEFINED MULTIPLE PATHOGENIC ANTI-MYELIN AUTOACTIVITIES - A NOVEL MODEL FOR MS

Nathali Kaushansky^{*[1]}, Aya Shelly^[1], Nicole Kerlero de Rosbo^[1], Hans Lassman^[2], Avraham Ben-Nun^[1]15.00

- ^[1]Department of Immunology, The Weizmann Institute of Science ~ Rehovot ~ Israel - ^[2]Brain Research Institute, Department of Neuroimmunology, University of Vienna ~ Vienna ~ Austria

483 - DIFFERENTIAL EXPRESSION OF GLIAL GAP JUNCTION PROTEINS DURING THE PROGRESSION OF EXPERIMENTAL AUTOIMMUNE ENCEPHALOMYELITIS

Kyriaki Markoullis^{*[1]}, Irene Sargiannidou^[1], Andreas Hadjisavvas^[2], Richard Reynolds^[3], Kleopas Kleopa A.^[1] 15.15

- ^[1]Neuroscience Laboratory, The Cyprus Institute of Neurology and Genetics ~ Nicosia ~ Cyprus - ^[2]Department of Molecular Pathology and Electron Microscopy, The Cyprus Institute of Neurology and Genetics ~ Nicosia ~ Cyprus - ^[3]Wolfson Neuroscience Laboratories, Imperial College Faculty of Medicine ~ London ~ United Kingdom

503 - NMDAR ANTIBODIES; COGNITIVE AND BEHAVIOURAL ABNORMALITIES IN MICE INJECTED WITH PATIENT IGG

Philippa Pettingill^{*[1]}, Bera Katarzyna^{*[1]}, Irani Sarosh^[1], Jacobson Leslie^[1], Lang Bethan^{*[1]}, Deacon Robert^[1], Bannerman David^[1], Buckley Camilla^[1], Vincent Angela^[1]15.30

- ^[1]University of Oxford ~ Oxford ~ United Kingdom

Workshop 3.....Tramuntana 2

Omics

Chairs: T. Olsson and J. Oksenberg

98 - MULTIPLE SCLEROSIS SUSCEPTIBILITY ALLELES MODULATE LEVELS OF GENE INVOLVED IN LYMPHOCYTE ACTIVATION PATHWAYS.

Linda Ottoboni^{*[1]}, Federica Esposito^[2], Nikolaos Patsopoulos^[1], Filippo Martinelli-Boneschi^[2], Giancarlo Comi^[2], David Hafler^[4], Philip De Jager^[1]15.45

- ^[1]Brigham and Women's Hospital and Harvard Medical School ~ Boston ~ United States - ^[2]Scientific Institute San Raffaele ~ Milan ~ Italy - ^[4]Yale School of Medicine ~ New Haven ~ United States

336 - QUANTITATIVE ANALYSIS OF BRAIN PROTEINS IN AN ANIMAL MODEL OF MULTIPLE SCLEROSIS

Ruth Daniels^{*[1]}, Annelies Vanhee^[1], Kurt Baeten^[1], Jerome Hendriks^[1], Stéphane Plaisance^[2], Pierre Leprince^[3], Debora Dumont^[1], Johan Robben^[4], Jean-Paul Noben^[1], Piet Stinissen^[1], Niels Hellings^[1]

.....16.00
- ^[1]BIOMED, Hasselt University ~ Diepenbeek ~ Belgium - ^[2]Gent University, VIB ~ Gent ~ Belgium - ^[3]University of Liege ~ Liege ~ Belgium - ^[4]Catholic University of Leuven ~ Leuven ~ Belgium

527 - BRAIN MICRORNAS TARGETING NEUROSTEROIDOGENESIS IN MULTIPLE SCLEROSIS MEDIATE DEMYELINATION AND NEURODEGENERATION

Farshid Noorbakhsh^[1], Kristofor K Ellestad^[1], Ferdinand Maingat^[1], Kenneth G Warren^[1], Mary H Han^[2], Lawrence Steinman^[2], Glen B Baker^[1], Christopher Power^{*[1]}16.15

- ^[1]University of Alberta ~ Edmonton ~ Canada - ^[2]Stanford University ~ Stanford ~ United States

Wednesday October 27th, 2010 - Workshop 2-3



Workshop 4.....Tramuntana 3

Glial cells

Chairs: B. Castellano and T. Owens

143 - C/EBPBETA AND C/EBPDELTA ARE POTENTIAL TARGETS TO ATTENUATE THE NEUROTOXIC EFFECTS OF GLIAL ACTIVATION

Marco Straccia^[1], Nuria Gresa-Arribas^[1], Tony Valente^[2], Aroa Ejarque-Ortiz^[3], Carme Solà^[3], Josep M Tusell^[3], Joan Serratosa^[3], Josep Saura^{*(2)} 15.00
- ^[1]CSIC/University of Barcelona, IDIBAPS ~ Barcelona ~ Spain - ^[2]University of Barcelona, IDIBAPS ~ Barcelona ~ Spain - ^[3]CSIC, IDIBAPS ~ Barcelona ~ Spain

204 - TYPE I INTERFERONS AS SIGNALS FOR AXONAL INJURY-INDUCED GLIAL RESPONSE.

Mohammad H. (Reza) Khorrooshi^{*(1)}, Trevor Owens^[1] 15.15
- ^[1]Institute of Molecular Medicine, University of Southern Denmark ~ Odense ~ Denmark

369 - MICROGLIAL CELLS IN ACUTE EAE MAY PLAY A KEY ROLE IN THE REGULATION OF LYMPHOCYTE DYNAMICS

Beatriz Almolda^{*(1)}, Manuela Costa^[1], Maria Montoya^[1], Berta Gonzalez^[1], Bernardo Castellano^[1] 15.30
- ^[1]Autonomous University of Barcelona ~ Barcelona ~ Spain

384 - IL-17 ENHANCES CCL20 PRODUCTION IN PRIMARY ASTROCYTES

Gordon Meares^{*(1)}, Xiangyu Ma^[2], Hongwei Qin^[1], ETTY N. Benveniste^[1] 15.45
- ^[1]University of Alabama at Birmingham ~ Birmingham ~ United States - ^[2]Qilu Hospital of Shandong University ~ Jinan ~ China

481 - THE MICROGLIA PHENOTYPES INVOLVED IN CENTRAL NERVOUS SYSTEM DE- AND REMYELINATION

Marta Olah^[1], Knut Biber^[2], Erik Boddeke^{*(1)} 16.00
- ^[1]University Medical Center Groningen ~ Groningen ~ Netherlands - ^[2]University of Freiburg ~ Freiburg ~ Germany

590 - IRF-1/CASPASE 1 SIGNALING IN CENTRAL NERVOUS SYSTEM GLIAL CELLS REGULATES INFLAMMATORY DEMYELINATION

Roumen Balabanov^{*(1)} 16.15
- ^[1]Rush Univeristy Medical Center ~ Chicago ~ United States



Workshop 5Llevant

Psychoimmunomodulation

Chairs: C. Whitacre and X. Montalbán

318 - EFFECTS OF HIPPOCAMPAL INOS OR NNOS INHIBITION IN MODELS OF ANXIETY AND DEPRESSION.

Vinicius Sato^{*[1]}, Amanda Sales^[2], Sâmia Joca^[2] 15.00
- ^[1]Department of Pharmacology, School of Medicine of Ribeirão Preto - University of São Paulo ~ Ribeirão Preto ~ Brazil - ^[2]Department of Physics and Chemistry, School of Pharmaceutical Sciences of Ribeirão Preto - University of São Paulo ~ Ribeirão Preto ~ Brazil

537 - THE EFFECT OF CHRONIC STRESS ON MALE UNIVERSITY STUDENTS IN THEIR FINAL EXAMINATIONS

Shusaku Nomura^{*[1]}, Miika Morishima^[2], Masao Migita^[3], Tota Mizuno^[4], Akio Nozawa^[5], Ikuro Suzuki^[6], Shuhei Izawa^[7], Jun-ichi Imai^[8] 15.15
- ^[1]Nagaoka University of Technology ~ Nagaoka ~ Japan - ^[2]Gifu City Women's College ~ Gifu ~ Japan - ^[3]Shiga University ~ Hikone ~ Japan - ^[4]Tokyo Polytechnic University ~ Atsugi ~ Japan - ^[5]Meisei University ~ Tokyo ~ Japan - ^[6]Hokkaido University ~ Sapporo ~ Japan - ^[7]National Institute of Occupational Safety and Health ~ Tokyo ~ Japan - ^[8]Chiba Institute of Technology ~ Chiba ~ Japan

Workshop 6Llevant

Biomarkers

Chairs: C. Whitacre and X. Montalbán

201 - A GENE EXPRESSION SIGNATURE IN BLOOD PREDICTS DISEASE COURSE IN PATIENTS WITH MULTIPLE SCLEROSIS

Ion Agirrezabal^{*[1]}, Ricardo Palacios^[2], Pablo Villoslada^[1] 15.30
- ^[1]Institute of Biomedical Research August Pi i Sunyer - Hospital Clínic de Barcelona ~ Barcelona ~ Spain - ^[2]Digna Biotech ~ Pamplona ~ Spain

319 - MINING THE T CELL MIRNOME FOR MULTIPLE SCLEROSIS BIOMARKERS

Mireia Guerau-de-Arellano^{*[1]}, Kristen Smith^[1], Jakub Godlewski^[1], Caroline Whitacre^[1], Sean Lawler^[1], Amy Lovett-Racke^[1], Michael K. Racke^[1] 15.45
- ^[1]The Ohio State University Medical Center ~ Columbus ~ United States

375 - BIOMARKERS IN PEDIATRIC MS: PREDICTING RECURRENT DISEASE AT TIME OF AN INITIAL DEMYELINATING EPISODE.

Viviane Poupon^[1], Sandra Magalhães^[1], Sunita Venkateswaran^[2], Chahrazed Belabani^[1], Nadia Ouamara^[1], Leonard H. Verhey^[2], Douglas L. Arnold^[1], A. Dossa Sadovnick^[3], Brenda Banwell^[2], Amit Bar-Or^{*[1]} 16.00
- ^[1]McGill University ~ Montreal, Quebec ~ Canada - ^[2]Pediatric Neurology, The Hospital for Sick Children, University of Toronto. ~ Toronto, Ontario ~ Canada - ^[3]Department of Medical Genetics and Faculty of Medicine, Division of Neurology, University of British Columbia. ~ Vancouver, BC ~ Canada

402 - THE SWITCH BETWEEN RELAPSE AND REMISSION IN MULTIPLE SCLEROSIS: CONTINUOUS INFLAMMATORY RESPONSE BALANCED BY TH1 SUPPRESSION.

Michael Gurevich^{*[1]}, Mark Dolev^[1], David Magalashvili^[1], Anat Achiron^[2] 16.15
- ^[1]Sheba Medical Center ~ Ramat-Gan ~ Israel - ^[2]Tel-Aviv University ~ Tel-Aviv ~ Israel

Wednesday October 27th, 2010 - Workshop 5-6



Wednesday October 27th, 2010 - Workshop 7-8 - Training 1-2

Workshop 7.....Mestral

Infections

Chairs: W. Brück and V. H. Perry

233 - THE LOSS OF TYPE I INTERFERON SIGNALING RESULTS IN RAPID HERPES SIMPLEX VIRUS TYPE 1 DISSEMINATION INTO THE BRAIN.

Christopher Conrady^{*[1]}, Min Zheng^[1], Daniel Carr^[1]15.00
- ^[1]University of Oklahoma Health Sciences Center ~ Oklahoma City ~ United States

268 - CONSISTENT DETECTION OF EBV RNA IN IMMUNE INFILTRATES IN THE MULTIPLE SCLEROSIS BRAIN USING COMBINED LASER CAPTURE MICRODISSECTION AND REAL-TIME RT-PCR

Barbara Rosicarelli^[1], Martina Severa^[1], Eliana Coccia^[1], Barbara Serafini^[1], Francesca Aloisi^{*[1]}15.15
- ^[1]Istituto Superiore di Sanità ~ Rome ~ Italy

334 - LIPOCALIN 2 IN THE CENTRAL NERVOUS SYSTEM (CNS) HOST RESPONSE TO LPS AND WNV INFECTION

Aline L. Noçon^{*[1]}, Rachael L. Terry^[2], Jacque Pak Kan Ip^[1], Sue Ling Lim^[1], Nicholas J. King^[3], Iain L. Campbell^[4]15.30
- ^[1]School of Molecular Bioscience, University of Sydney ~ Sydney ~ Australia - ^[2]Department of Pathology, University of Sydney ~ Sydney ~ Australia - ^[3]Department of Pathology, Bosch Institute, University of Sydney ~ Sydney ~ Australia - ^[4]School of Molecular Bioscience, Bosch Institute, University of Sydney ~ Sydney ~ Australia

615 - ROLE FOR iNOS IN LEUKOCYTE RECRUITMENT IN CEREBRAL AND HEPATIC MICROVASCULATURE AFTER Plasmodium berghei NK65 INFECTION.

O. C. Oliveira-Lima^{*[1]}, D. Bernardes^[1], J. Carvalho-Tavares^[1]15.45
- ^[1]Neuroscience Nucleus, Department Physiology and Biophysic, ICB, UFMG, Belo Horizonte, Brasil

159 - BONE MARROW-DERIVED CELLS ARE THE PRIMARY SOURCE OF CXCL10 REGULATION OF ANTIGEN-SPECIFIC CD8+ T CELL RECRUITMENT TO THE CNS

Daniel Carr^{*[1]}, Todd Wuest^[1]16.00
- ^[1]The University of Oklahoma Health Sciences Center ~ Oklahoma City ~ United States

Workshop 8.....Mestral

Pathology

Chairs: W. Brück and V. H. Perry

551 - ASTROCYTE-T CELL INTERACTIONS ARE CHARACTERISTIC OF EARLY NEUROINFLAMMATION

H. Pham^[1], A.A. Ramp^[1], M.M. Ayers^[2], J.M. Orian^{*[1]}16.15
- ^[1]Department of Biochemistry, La Trobe University, Victoria, Australia - ^[2]Department of Pathology, The University of Melbourne, Victoria, Australia

TEA BREAK.....16.30 – 17.00

Training 1Tramuntana 2

Clinical skills for Neuroimmunologists

A. Uccelli, Department of Neurology, University of Genoa, Italy.....17.00 – 18.00

Training 2Tramuntana 3

Neuroimmunological technologies

R. Liblau, Hopital Purpan, Toulouse, France.....17.00 – 18.00



Thursday October 28th, 2010

Concurrent Symposia 4.....Auditorium

System biology for the study of the Neuroimmunological diseases

Chair: P. Villoslada

COMPLEX SYSTEMS: FROM MOLECULES TO BRAIN

R. Sole08.30

Complex Systems Group, University Pompeu Fabra, Barcelona, Spain

630 - OMICS INTEGRATION IN MS: PUTTING IT BACK TOGETHER

Sergio Baranzini09.00

University of California San Francisco ~ San Francisco ~ United States

609 - "WHAT HAVE WE LEARNED FROM THE OTHER 'OMICS: TRANSCRIPTOMICS, PROTEOMICS, LIPIDOMICS, AS COMPARED TO GENOMICS"

Laurence Steinman09.30

Stanford University, CA, USA

Concurrent Symposia 5Tramuntana 2

Brain-blood barrier regulation of brain inflammation

Chairs: A. Prat and Elga de Vries

651 - NOVEL ADHESION MOLECULES INVOLVED IN THE PREFERENTIAL MIGRATION OF LEUKOCYTE SUB-SETS TO THE CNS

A. Pratt08.30

Université de Montréal ~ Montréal ~ Canada

616 - ROLE OF ABC TRANSPORTERS IN NEURO-INFLAMMATORY EVENTS AT THE BLOOD-BRAIN BARRIER

Elga de Vries09.00

Department of Molecular Cell Biology and Immunology, MS center, VU medical center ~ Amsterdam ~ Netherlands

652 - A ROLE FOR LEUKOCYTE TRAFFICKING MECHANISMS IN THE PATHOGENESIS OF EPILEPSY

Gabriela Constantin09.30

University of Verona ~ Verona ~ Italy

654 - MECHANISMS FOR MAINTAINING ENDOTHELIAL INTEGRITY DURING INFLAMMATION

Christopher V. Carman10.00

Harvard Medical School, Boston, USA

Thursday October 28th, 2010 - Concurrent Symposia 4-5



Thursday October 28th, 2010 - Concurrent Symposia 6

Concurrent Symposia 6Tramuntana 3

Brain tumors immunotherapy
Chair: F. Graus

44 - TARGETING TUMOR SPECIFIC ANTIGENS AND ALLEVIATING IMMUNOSUPPRESSION IN GLIOBLASTOMA

John Sampson08.30
Duke University Medical center ~ Durham, N.C. ~ United States

632 - THE VIRTUES AND VICES OF YOUTH: AGE, IMMUNITY, GENE EXPRESSION & MALIGNANCY IN GLIOMA

Christopher Wheeler09.00
Cedars-Sinai Medical Center, Dept of Neurosurgery ~ Los Angeles ~ United States

604 - IMMUNOTHERAPY FOR HIGH GRADE GLIOMA: LESSONS FROM PRECLINICAL AND CLINICAL EXPERIENCES

Stefaan Van Gool09.30
University Hospital Leuven ~ Leuven ~ Belgium

COFFEE BREAK.....10.00 – 10.30

Lecture 2.....Auditorium

The Newson-Davis Lecture.....10.30

647 - PATHOGENESIS OF THE INFLAMMATORY MYOPATHIES: AN ONGOING DETECTIVE STORY

Reinhard Hohlfeld, Institute of Clinical Neuroimmunology, Ludwig Maximilians University of Munich, Munich, Germany

Plenary Symposium 2.....Auditorium

Stem cells at the crossroad of Neuroimmunology
Chair: G. Martino

634 - THE ROLE OF NEURAL STEM CELLS IN BRAIN REGENERATION

Gianvito Martino11.30
San Raffaele Scientific Institute ~ Milan ~ Italy

640 - MESENCHYMAL STEM CELLS FOR BRAIN REPAIR: DOES NEURAL DIFFERENTIATION REALLY MATTER?

Antonio Uccelli12.10
Department of Neurosciences, Ophthalmology and Genetics, University of Genoa ~ Genova ~ Italy

648 - IMMUNOLOGY OF THE BRAIN: INTRACRANIAL IMMUNE CELLS ARE PART OF THE FUNCTIONING BRAIN AND LINK PHYSIOLOGY TO PATHOLOGY

Michal Schwartz12.50
The Weizmann Institute of Science ~ Rehovot ~ Israel

LUNCH & POSTERS13.30 – 15.00

PLENARY



Poster Session 9Poster Hall.....13.30 – 15.00
Neuroinflammation in neurological diseases II

255 - CANNABINOID RECEPTOR 2 EXPRESSION IN B, NK AND T CELLS IN PATIENTS WITH RELAPSING REMITTING MULTIPLE SCLEROSIS. EFFECTS OF THE INTERFERON BETA THERAPY.

Antonio J Sanchez^{*[1]}, Laura Roman-Vega^[2], Elvira Ramíl^[3], M^a Rosario Blasco^[4], Ofir Rodríguez de la Fuente^[5], Juan Antonio Garcia-Merino^[6]

- ^[1]Neuroimmunology Unit. Hospital Universitario Puerta de Hierro-Majadahonda ~ Madrid ~ Spain - ^[2]Neuroimmunology Unit. Hospital Universitario Puerta de Hierro-Majadahonda ~ Madrid ~ Spain - ^[3]Neuroimmunology Unit. Hospital Universitario Puerta de Hierro-Majadahonda ~ Madrid ~ Spain - ^[4]Neuroimmunology Unit. Hospital Universitario Puerta de Hierro-Majadahonda ~ Madrid ~ Spain - ^[5]Neuroimmunology Unit. Hospital Universitario Puerta de Hierro-Majadahonda ~ Madrid ~ Spain - ^[6]Neuroimmunology Unit. Hospital Universitario Puerta de Hierro-Majadahonda ~ Madrid ~ Spain

355 - CONSEQUENCES OF IMMUNE COMPLEX FORMATION IN THE BRAIN

Jessica L. Teeeling^{*[1]}, Roxana O. Carare^[2], Richard Reynolds^[1], Martín J. Glennie^[2], V. Hugh Perry^[1]

- ^[1]University of Southampton, School of Biological Sciences ~ Southampton ~ United Kingdom - ^[2]University of Southampton, School of Medicine ~ Southampton ~ United Kingdom

272 - ESTROGEN LOSS IN PERITONEAL LEUKOCYTES OF AGED MICE CAUSES SIMILAR LEVELS TO MALES OF IMMUNE SENESCENCE AND OXI-INFLAMM-AGING

Isabel Baeza^[1], Julia Cruces^{*[1]}, Nuría María De Castro^[1], Lorena Arranz^[1], J Fernández-Tresguerres^[1], Mónica De la Fuente^[1]

- ^[1]Complutense University of Madrid-UCM ~ Madrid ~ Spain

270 - OLD MICE TREATED WITH PULSED HIGH-ENERGY POTENTIAL-VORTICES IMPROVE BEHAVIOR AND IMMUNE CELL FUNCTION PARAMETERS, WHICH REACH SIMILAR LEVELS TO THOSE IN ADULT ANIMALS

Julia Cruces^{*[1]}, Oskarína Hernández^[1], M. A. Rodríguez-Martínez^[2], G. Fernández de Bobadilla^[2], D. Damaso^[3], Mónica De la Fuente^[1]

- ^[1]Complutense University of Madrid-UCM ~ Madrid ~ Spain - ^[2]MAR-FARMA Consultancy S.L. ~ Madrid ~ Spain - ^[3]Puerta de Hierro Hospital ~ Madrid ~ Spain

215 - MICROGLIAL REACTIVITY IN DOGS WITH VISCERAL LEISHMANIASIS: CORRELATION WITH HIGH TITERS OF ANTI-LEISHMANIA ANTIBODIES IN CEREBROSPINAL FLUID

Gisele Machado^{*[1]}, Guilherme Melo^[2]

- ^[1]Universidade Estadual Paulista "Júlio de Mesquita Filho" (UNESP) ~ Araçatuba-SP ~ Brazil - ^[2]Universidade Estadual Paulista "Júlio de Mesquita Filho" (UNESP) ~ Araçatuba-SP ~ Brazil

246 - APOE E3 ATTENUATES EXPERIMENTAL AUTOIMMUNE NEURITIS BY MODULATING MACROPHAGE AND T CELL FUNCTIONS

Hong-Liang Zhang^{*[1]}, Xi-Jing Mao^[3], Xing-Mei Zhang^[1], Hai-Feng Li^[4], Hernan Concha Quezada^[5], Abdu Adem^[6], Jie Zhu^[1]

- ^[1] Division of Neurodegeneration, Department of Neurobiology, Care Sciences and Society, Karolinska Institute ~ Stockholm ~ Sweden - ^[3]Department of Neurology, Second Hospital of Jilin University ~ Changchun ~ China - ^[4]Department of Neurology, Affiliated Hospital of Medical College, Qingdao University ~ Qingdao ~ China - ^[5]Center for Infectious Medicine, Department of Medicine, Karolinska Institute, Karolinska University Hospital Huddinge ~ Stockholm ~ Sweden - ^[6]Department of Pharmacology, Faculty of Medicine & Health Sciences, United Arab Emirates University ~ Allin ~ United Arab Emirates

Thursday October 28th, 2010 - Poster Session 9



101 - CANNABIDIOL, NONPSYCHOACTIVE CANNABINOID, AMELIORATES EAE CLINICAL SYMPTOMS AND DECREASES MICROGLIAL ACTIVATION IN MOG TREATED MICE

Ewa Kozela^{*[1]}, Nirit Lev^[3], Maciej Pietr^[2], Neta Rimmerman^[2], Rivka Levy^[2], Zvi Vogel^[1], Ana Juknat^[1]

- ^[1]The Dr Miriam and Sheldon G. Adelson Center for the Biology of Addictive Diseases, Sackler Faculty of Medicine, Tel Aviv University ~ Tel Aviv ~ Israel - ^[2]Neurobiology Department, Weizmann Institute of Science ~ Rehovot ~ Israel - ^[3]The Felsenstein Medical Research Center, Sackler Faculty of Medicine, Tel Aviv University ~ Tel Aviv ~ Israel

364 - CHRONIC RESTRAINT STRESS INCREASES IL-6 AND CANNABINOID RECEPTOR TYPE 1 EXPRESSION IN RAT HIPPOCAMPUS.

Berenice Burdet^{*[1]}, Andrea De Laurentiis^[1], Claudia Mohn^[1], Javier Fernandez Solari^[1], Valeria Rettori^[1], Maria Zorrilla Zubilete^[1]

- ^[1]CEFAYBO-CONICET, School of Medicine, University of Buenos Aires. Buenos Aires, Argentina ~ Buenos Aires ~ Argentina

312 - COGNITIVE-ENHANCING AND ANTIDEPRESSANT EFFECTS OF CHRONIC CELECOXIB AND MEMANTINE TREATMENT IN AN OBX RAT MODEL OF ALZHEIMER'S DISEASE.

Yuliya Borre^{*[1]}, Susan Lemstra^[1], Ronald Oosting^[1], Berend Olivier^[1]

- ^[1]Utrecht University ~ Utrecht ~ Netherlands

301 - CYTOKINE DYSREGULATION IN IDIOPATHIC INTRACRANIAL HYPERTENSION CSF

Edwards Laura^{*[1]}, Tench Christopher^[1], Braitch Manjit^[1], Sharrack Basil^[2], Ismaïl Azza^[2], Tumani Hayrettin^[3], Constantinescu Cris^[1]

- ^[1]Division of Clinical Neurology, University of Nottingham, UK - ^[2]Neurology Dept., Sheffield Teaching Hospital Foundations Trust, Sheffield, UK - ^[3]Dept. of Neurology, University of Ulm, Germany

241 - DANSHENSU ATTENUATES DIABETES-ASSOCIATED LEARNING AND MEMORY DECLINE IN MICE

Tian Wang^{*[1]}, Bing Han^[2], Leiming Zhang^[3], Fenghua Fu^[4]

- ^[1]Department of Pharmacology, School of Pharmacy, Yantai University, 32#, Qingquan Road, Yantai 264005, P.R. China ~ yantai ~ China - ^[2]Department of Pharmacology, School of Pharmacy, Yantai University, 32#, Qingquan Road, Yantai 264005, P.R. China ~ yantai ~ China - ^[3]Department of Pharmacology, School of Pharmacy, Yantai University, 32#, Qingquan Road, Yantai 264005, P.R. China ~ yantai ~ China - ^[4]Department of Pharmacology, School of Pharmacy, Yantai University, 32#, Qingquan Road, Yantai 264005, P.R. China ~ Yantai ~ China

243 - DIFFERENT TH SUBSETS ARE ACTIVATED IN PATIENTS WITH EITHER PRIMARY PROGRESSIVE OR SECONDARY PROGRESSIVE MULTIPLE SCLEROSIS

Marina Saresella^{*[1]}, Marco Rovaris^[2], Ivana Marventano^[1], Maira Gironi^[2], Federica Piancone^[1], Andrea Gatti^[1], Paola Tortorella^[2], Domenico Caputo^[2], Mario Clerici^[3]

- ^[1]Laboratory of Molecular Medicine and Biotechnology Don C. Gnocchi Foundation IRCCS S. Maria Nascente ~ Milan ~ Italy - ^[2]Multiple Sclerosis Unit Don C. Gnocchi Foundation IRCCS S. Maria Nascente ~ Milan ~ Italy - ^[3]Department of Biomedical Sciences and Technology University of Milan and Laboratory of Molecular Medicine and Biotechnology Don C. Gnocchi Foundation IRCCS S. Maria Nascente ~ Milan ~ Italy

282 - DISTINCT MACROPHAGE SUBSETS WITH DIVERGENT PHENOTYPES AND FUNCTIONAL PROPERTIES IN MURINE BRAIN ABSCESS

Lydia Richter^{*[1]}, Josephin Held^[1], Alexandra Döser^[1], Michael Meisen^[1], Frank L. Heppner^[1], Werner Stenzel^[1]

- ^[1]Department of Neuropathology ~ Berlin ~ Germany



252 - EXPLORING THE MECHANISMS OF AXONAL AND NEURONAL DAMAGE CAUSED BY CD8 T CELLS

Gregoire Chevalier^{*[1]}, Elsa Suberbielle^[1], Roland Liblau^[1], Daniel Gonzalez-Dunia^[1]

- ^[1]Inserm U563 Centre de Physiopathologie de Toulouse Purpan ~ Toulouse ~ France

323 - FUNCTIONAL CHARACTERIZATION OF THE INFLUENCE OF VITAMIN D ON MULTIPLE SCLEROSIS

Manuel Zeitelhofer^{*[1]}, Milena Zeitelhofer-Adzemovic^[1], Tomas Olsson^[1], Maja Jagodic^[1]

- ^[1]Karolinska Institutet, Neuroimmunology Unit, Center for Molecular Medicine ~ Stockholm ~ Sweden

324 - GENETICALLY DETERMINED BETA-CHEMOKINE EXPRESSION REGULATES THE NEUROINFLAMMATION IN RATS

Milena Zeitelhofer Adzemovic^{*[1]}, Johan Öckinger^[1], Amennai Daniel Beyeen^[1], Alan Gillett^[1], Manuel Zeitelhofer^[1], Melanie Thessen Hedreul^[1], Ruxandra Covacu^[1], Hans Lassmann^[2], Tomas Olsson^[1], Maja Jagodic^[1]

- ^[1]Karolinska University Hospital ~ Stockholm ~ Sweden - ^[2]Center for Brain Research, Medical University Vienna ~ Vienna ~ Austria

298 - GENOME-WIDE PROFILING OF MICRO RNAS THAT ASSOCIATE WITH SUSCEPTIBILITY TO EXPERIMENTAL NEUROINFLAMMATION

Petra Bergman^{*[1]}, Alan Gillett^[1], Supic Goga^[1], Kristina Larsson^[2], Anders Kvist^[3], Maja Jagodic^[1]

- ^[1]Karolinska Institutet ~ Stockholm ~ Sweden - ^[2]Uppsala University ~ Uppsala ~ Sweden - ^[3]Lund University ~ Lund ~ Sweden

328 - IL-10 GENE WAS UPREGULATED IN HIPPOCAMPUS OF MICE AFTER TRANSIENT GLOBAL CEREBRAL ISCHEMIA

Leiming Zhang^[1], Fenghua Fu^[1], Tian Wang^[1], Wenyu Xin^[1], Na Jiang^[1], Mei Zhu^[1]

- ^[1]Yantai University ~ Yantai ~ China

230 - IL-25 GENE DELIVERY DOES NOT AFFECT RELAPSING-REMITTING EXPERIMENTAL AUTOIMMUNE ENCEPHALOMYELITIS

Chiara Maiorino^{*[1]}, Erica Butti^[2], Francesca Ruffini^[2], Alessandra Bergami^[1], Gianvito Martino^[2], Roberto Furlan^[1]

- ^[1]San Raffaele Scientific Institute, Division of Neuroscience - INSPE, Clinical Neuroimmunology Unit ~ Milan ~ Italy - ^[2]San Raffaele Scientific Institute, Division of Neuroscience - INSPE, Neuroimmunology Unit ~ Milan ~ Italy

249 - INTERLEUKIN-18 ALTERS EXPRESSION PROFILES OF AMYLOID PRECURSOR PROTEIN CLEAVING ENZYMES IN SH-SY5Y CELLS

Elina M Sutinen^[3], Irina Alafuzoff^[4], Antero Salminen^[3], Tuula Pirttilä^[5], Johanna O Ojala^{*[2]}

- ^[2]University of Eastern Finland, Clinical Research Centre, Brain Research Unit ~ Kuopio ~ Finland - ^[3]University of Eastern Finland, Institute of Clinical Medicine, Neurology ~ Kuopio ~ Finland - ^[4]Uppsala University, Department of Genetics and Pathology ~ Uppsala ~ Sweden - ^[5]Kuopio University Hospital, Neurology ~ Kuopio ~ Finland

119 - INVESTIGATION OF MICROGLIAL FUNCTION FOLLOWING A(BETA)42 IMMUNISATION IN ALZHEIMER'S DISEASE

Elina Zotova^{*[1]}, Clive Holmes^[2], Jim Neal^[4], James Nicoll^[5], Delphine Boche^[1]

- ^[1]Division of Clinical Neuroscience, University of Southampton ~ Southampton ~ United Kingdom - ^[2]MARC Moorgreen Hospital ~ Southampton ~ United Kingdom - ^[4]Department of Geriatric Medicine and Department of Pathology, University of Wales ~ Cardiff ~ United Kingdom - ^[5]Department of Cellular Pathology, Southampton University Hospitals NHS Trust ~ Southampton ~ United Kingdom

247 - KRUPPEL LIKE FACTOR 4, A NOVEL TRANSCRIPTION FACTOR IN MICROGLIAL ACTIVATION AND SUBSEQUENT NEUROINFLAMMATION

Deepak Kaushik^[1], Anirban Basu^{*[1]}

- ^[1]National Brain Research Center ~ Gurgaon ~ India



340 - LEUKOCYTE RECRUITMENT AND MICROGLIAL RESPONSES IN NORMAL AGING AND IN ALZHEIMER'S-LIKE DISEASE

Alicia A. Babcock^{*[1]}, Laura Ilkjær^[1], Martin Wirenfeldt^[1], Thomas Krøigård^[1], Lasse Dissing-Olesen^[1], Sultan Darvesh^[2], Morten S. Jensen^[3], Mark J. West^[3], Bente Finsen^[1]

- ^[1]University of Southern Denmark ~ Odense ~ Denmark - ^[2]Dalhousie University ~ Halifax ~ Canada - ^[3]University of Aarhus ~ Aarhus ~ Denmark

315 - LOSS OF ASTROCYTE CONNEXIN 43 AND 30 DOES NOT SIGNIFICANTLY ALTER SUSCEPTIBILITY OR SEVERITY OF EXPERIMENTAL AUTOIMMUNE ENCEPHALOMYELITIS IN MICE

Sarah E. Lutz^{*[1]}, Cedric S. Raine^[1], Celia F. Brosnan^[1]

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

358 - MICROPARTICLES RELEASED FROM REACTIVE MICROGLIA: A POTENTIAL BIOMARKER FOR NEUROINFLAMMATORY AND NEURODEGENERATIVE DISEASES

Dacia Dalla Libera^{*[1]}, Alessandra Bergami^[1], Giuseppe Magnani^[1], Giancarlo Comi^[1], Gianvito Martino^[1], Michela Matteoli^[2], Claudia Verderio^[3], Roberto Furlan^[1]

- ^[1]Institute of Experimental Neurology, Division of Neuroscience, San Raffaele Scientific Institute ~ Milano ~ Italy - ^[2]Dept. of Pharmacology, University of Milano ~ Milano ~ Italy - ^[3]Institute of Neuroscience, CNR, Milano ~ Milano ~ Italy

113 - MOLECULAR MECHANISMS OF T CELL TRAFFICKING INTO THE BRAIN IN A MOUSE MODEL OF PARKINSON'S DISEASE

Amaury Jean-Marie Bekaert^{*[4]}, Vanessa Brochard^[4], Christian Lobsiger^[4], Etienne Charles Hirsch^[4], Christophe Combadière^[3], Stéphane Hunot^[4]

- ^[3]Inserm, U543 ~ Paris ~ France - ^[4]CRicm - Inserm/UPMC UMRS 975 - CNRS UMR 7225 ~ Paris ~ France

333 - MUTANT PRESENILIN 1 PROTEIN ENHANCES SPECIFIC INFLAMMATORY MEDIATORS IN ALZHEIMER'S DISEASE

Anna Sokolova^[1], Michelle Hill^[1], Farid Rahimi^[1], Lolita Warden^[1], Glenda Halliday^[1], Claire Shepherd^{*[1]}

- ^[1]Prince of Wales Medical Research Institute ~ Sydney ~ Australia

335 - NEUROMYELITIS OPTICA MIMICKING BRAINSTEM GLIOMA

Young Jin Kim^{*[1]}

- ^[1]Department of Neurology, Konkuk University School of Medicine ~ Seoul ~ Korea South

320 - NEUROPROTECTIVE FUNCTIONS OF IFN- GAMMA IN THE INFLAMED CNS

Eunyoung Lee^[2], David Pleasure^[2], Athena Soulika^{*[2]}

- ^[2]Institute for Pediatric Regenerative Medicine, University of California Davis School of Medicine ~ Sacramento ~ United States

210 - T CELL RECEPTOR REPERTOIRE IN CHRONIC INFLAMMATORY DEMYELINATING POLYNEUROPATHY

Anne K. Mausberg^{*[1]}, Mareike Dorok^[1], Thomas Dehmel^[1], Bernd C. Kieseier^[1]

- ^[1]Heinrich-Heine University ~ Duesseldorf ~ Germany

213 - TRANSGENIC RESCUE OF GANGLIOSIDE EXPRESSION IN THE PERIPHERAL NERVOUS SYSTEM OF GANGLIOSIDE-NULL MICE FACILITATES AN ACTIVE IMMUNISATION MODEL OF ACUTE MOTOR AXONAL NEUROPATHY

Simon Rinaldi^{*[1]}, Denggao Yao^[1], Kay Greenshields^[1], Allan McKinnon^[1], Simon Fewot^[1], Koichi Furukawa^[2], Peter Brophy^[3], Hugh Willison^[1]

- ^[1]University of Glasgow ~ Glasgow ~ United Kingdom - ^[2]Nagoya University School of Medicine ~ Nagoya ~ Japan - ^[3]University of Edinburgh ~ Edinburgh ~ United Kingdom



345 - VALIDATION OF AN IN VIVO MODEL TO STUDY THE IMPLICATION OF NOTCH PATHWAY IN NEURODEGENERATIVE PROCESSES

Gauthier Dorban^{*[1]}, Mike Moro^[1], Paul Heuschling^[1], Eleonora Morga^[1]

- ^[1]Lab. De Neurobiologie, Life Sciences RU, University of Luxembourg ~ Luxembourg ~ Luxembourg

316 - YKL-40 EXPRESSION IN NEUROINFLAMMATORY CONDITIONS

Dafna Bonne-Barkay^{*[1]}, Guoji Wang^[1], Adam Starkey^[1], Ronald Hamilton^[1], Huichao Zou^[1], Stephanie Bissef^[1], Amy Wagner^[1], Clayton Wiley^[1]

- ^[1]University of Pittsburgh ~ Pittsburgh ~ United States



**Poster Session 10Poster Hall.....13.30 – 15.00
Therapies**

466 - ADJUNCT MINOCYCLINE THERAPY AFFECTS ANTI-ABETA ANTIBODY INDUCED MICROHEMORRHAGE PROGRESSION IN TG2576 MICE

Vitaly Vasilevko^{*[1]}, Daniel Quiring^[1], David Cribbs^[1]

- ^[1]MIND Institute at UC Irvine ~ Irvine ~ United States

473 - ADVERSE REACTIONS OF PREGABALINE AT PAIN POLICLINIC PATIENTS

Usta Coskun^{*[1]}, Akbas Mert^[2]

- ^[1]Department of Pharmacology, Akdeniz University Medical Faculty, Antalya, Turkey - ^[2]Department of Physiology, Akdeniz University Medical Faculty, Antalya, Turkey

423 - BORTEZOMIB AS A NOVEL TREATMENT FOR EXPERIMENTAL AUTOIMMUNE MYASTHENIA GRAVIS

Alejandro Gomez^{*[1]}, Kathleen Vrolix^[1], Marko Phernambucq^[1], Pilar Martinez-Martinez^[1], Marc H. De Baets^[1], Mario Losen^[1]

- ^[1]Maastricht University ~ Maastricht ~ Netherlands

293 - CELECOXIB ANALOGUE LACKING COX-2 INHIBITORY ACTIVITY SUPPRESSES INFLAMMATORY DISORDERS BY INHIBITING INFLAMMATORY CYTOKINES.

Asako Chiba^{*[1]}, Yusei Miyazaki^[1], Ryohsuke Tajima^[1], Miho Mizuno^[1], Chiharu Tomi^[1], Daiju Ichikawa^[1], Iraide Alloza^[2], Takashi Yamamura^[1], Koen Vandebroek^[2], Sachiko Miyake^[1]

- ^[1]National Institute of Neuroscience, National Center of Neurology and Psychiatry ~ Tokyo ~ Japan - ^[2]Ikerbasque and Universidad Del Pais Vasco (UPV/EHU), Parque Tecnológico de Bizkaia ~ Zamudio ~ Spain

513 - DIFFERENTIAL EFFECT OF LITHIUM IN EAE: OPPOSITE RESPONSE IN TH1 VERSUS TH17 DISEASE.

Patrizia De Sarno^{*[1]}, Amber Buel^[1], Rodrigo Naves^[1], Tethia Mbaná^[1], Chander Raman^[1]

- ^[1]University of Alabama at Birmingham ~ Birmingham, AL ~ United States

348 - DISTINCT MECHANISM AND IMPROVED EFFICACY OF LIPOSOME ENCAPSULATED GLUCOCORTICOIDS IN EAE THERAPY

Fred Lühder^{*[1]}, Axel Haine^[1], Karsten Tiede^[1], Anna Karabinskaja^[1], Jens van den Brandt^[1], Bart Metselaar^[2], Holger Reichardt^[1]

- ^[1]University of Göttingen ~ Göttingen ~ Germany - ^[2]University of Utrecht ~ Utrecht ~ Netherlands

273 - DO STATINS AGGRAVATE MYASTHENIA GRAVIS?

Keiichi Himuro^{*[1]}, Naoki Kawaguchi^[1], Yuko Nemoto^[1], Satoshi Kuwabara^[1]

- ^[1]Chiba university faculty of medicine department of neurology ~ Chiba ~ Japan

539 - DYNAMIC EX VIVO MONOCYTE SPECIFIC AND T CELL RELEVANT RNA SIGNATURES AFTER GLATIRAMER ACETATE ADMINISTRATION IN MULTIPLE SCLEROSIS

Robert Goertsches^{*[1]}, Michael Hecker^[1], Madhan Thamilarasan^[1], Dirk Koczan^[1], HJ Thiesen^[1], UK Zettl^[1]

- ^[1]Rostock University ~ Rostock ~ Germany

48 - E6070, A NOVEL IKK INHIBITOR, INHIBITS LEUKOCYTE MIGRATION AND T CELL DIFFERENTIATION IN AN EAE MODEL

Kenzo Muramoto^{*[1]}, Jane Daun^[2], Wanjun Zheng^[2], Hiroshi Shirota^[2], Fabian Gusovskiy^[2], Ieharu Hishinuma^[2], Seiichi Kobayashi^[1]

- ^[1]Eisai Co., LTD. ~ Tsukuba-shi ~ Japan - ^[2]Eisai Inc. ~ Boston ~ United States



569 - EARLY & AGGRESSIVE TREATMENT WITH IAPP AND IVMP COMBINATION THERAPY FOR NMO - CLINICAL EFFICACY OF COMBINED THERAPY AND SERUM IL-10 -

Satoru Ohji^{*[1]}, Akihiro Kubota^[1], Miki Kojima^[1], Shoko Isaki^[1], Kyoichi Nomura^[1]

- ^[1]Department of Neurology, Saitama Medical Center, Saitama Medical University ~ Saitama ~ Japan

2 - EFFICACY OF RAMATROBAN TREATMENT FOR MULTIPLE SCLEROSIS PATIENTS
Kazuya Takahashi^{*[1]}, Yuko Kato-Motozaki^[1], Mie Hirohata^[1], Atsuro Tagami^[1], Chiho Ishida^[1], Kiyonobu Komai^[1]

- ^[1]Iou Hospital ~ Kanazawa ~ Japan

428 - ELND002 EFFECTIVELY REVERSES CLINICAL SYMPTOMS AND HISTOLOGICAL DAMAGE IN A GUINEA PIG EXPERIMENTAL AUTOIMMUNE ENCEPHALOMYELITIS MODEL

Brian Wipke^{*[1]}, Lilibeth Dofiles^[1], Ian Gallagher^[1], Michael Krimm^[1], Chris Vandevent^[1], Ted Yednock^[1], Elizabeth Messersmith^[1]

- ^[1]Elan Pharmaceuticals, Inc. ~ South San Francisco, CA ~ United States

429 - ELND002 IS A POTENT INHIBITOR OF A4 INTEGRIN-MEDIATED HUMAN LEUKOCYTE ADHESION IN VITRO.

Caroline Garrido^[1], Jennifer Mao^[1], Yi-Zheng Xu^[1], Van Nguyen^[1], Ted Yednock^[1], Frédérique Bard^[1]

- ^[1]Elan Pharmaceuticals ~ South San Francisco ~ United States

118 - ENHANCING PROTECTIVE EFFECTS OF MODIFIED PEPTIDES FOR TREATMENT OF MULTIPLE SCLEROSIS

Nancy Moxey^{*[1]}, Elisabeth Triflieff^[2], Judith Greer^[1]

- ^[1]University of Queensland Centre for Clinical Research ~ Herston ~ Australia - ^[2]Université de Strasbourg ~ Strasbourg ~ France

368 - GENETIC ENGINEERING OF A SOLUBLE TUMOR NECROSIS FACTOR RECEPTOR 2 SELECTIVE TNF WITH MEMBRANE TNF MIMETIC ACTIVITIES

Roman Fischer^{*[1]}, Olaf Maier^[1], Jeanette Gerspach^[1], Sarah K. Williams^[2], Ricarda Diem^[2], Harald Wajant^[3], Peter Scheurich^[1], Klaus Pfizenmaier^[1]

- ^[1]Institute of Cell Biology and Immunology, University of Stuttgart ~ Stuttgart ~ Germany - ^[2]Department of Neurology, University of the Saarland ~ Homburg/Saar ~ Germany - ^[3]Division of Molecular Internal Medicine, Department of Internal Medicine II, University Hospital Würzburg ~ Würzburg ~ Germany

28 - IMMUNODOMINANT EPITOPE AND PROPERTIES OF PYROGLUTAMATE MODIFIED ABETA-SPECIFIC ANTIBODIES

Roxanna Perez-Garmendia^{*[3]}, Vanessa Ibarra-Bracamontes^[3], Vitaly Vasilevko^[2], Jose Luna-Muñoz^[4], Raúl Mena^[4], Tzippe Govezensky^[3], Karen Manoutcharian^[3], David Cribbs^[2], Goar Gevorgian^[3]

- ^[2]The Institute for Memory Impairments and Neurological Disorders, University of California Irvine ~ Irvine ~ United States - ^[3]Instituto de Investigaciones Biomedicas, Universidad Nacional Autonoma de Mexico ~ Mexico ~ Mexico - ^[4]Department of Neurosciences, CINVESTAV-IPN ~ Mexico ~ Mexico

535 - MYELIN PEPTIDES APPLIED EPICUTANEOUSLY INDUCE IMMUNE TOLERANCE IN MULTIPLE SCLEROSIS PATIENTS.

Maciej Jurynczyk^{*[1]}, Agata Walczak^[1], Anna Jurewicz^[1], Dorota Jesionek-Kupnicka^[1], Krzysztof Selmaj^[1]

- ^[1]Medical University ~ Lodz ~ Poland



110 - NEUROPROTECTIVE AUTOIMMUNITY AFTER ALEMTUZUMAB TREATMENT OF MULTIPLE SCLEROSIS

Suzanne Moseley*⁽¹⁾, Joanne Jones⁽¹⁾, Jane Anderson⁽¹⁾, Chia-Ling Phuah⁽¹⁾, Daniel Webber⁽¹⁾, Alastair Compston⁽¹⁾, Alasdair Coles⁽¹⁾

- ⁽¹⁾University of Cambridge ~ Cambridge ~ United Kingdom

108 - NEUROPROTECTIVE EFFECT OF SURVIVIN BIR MOTIF MUTANT ON INVITRO MODEL OF MULTIPLE SCLEROSIS

Sara Baratchi*⁽¹⁾, Rupinder K. Kanwar⁽¹⁾, Jagat R. Kanwar⁽¹⁾

- ⁽¹⁾Institute of Biotechnology (BioDeakin), Institute for Technology Research and Innovation (ITRI), Deakin University ~ Geelong ~ Australia

365 - NEUROPROTECTIVE PROPERTIES OF HYDROXYTYROSOL – A NATURAL PHENOL FROM OLIVE OIL

Chakroun Karima*⁽¹⁾, Schulze Christian⁽³⁾, Thies Edda⁽¹⁾, Geerlings Arjan⁽²⁾, Martin Roland⁽¹⁾

- ⁽¹⁾Institute for Neuroimmunology and Clinical Multiple Sclerosis (MS) Research ~ Hamburg ~ Germany - ⁽²⁾Puleva Biotech ~ Granada ~ Spain - ⁽³⁾Center for Molecular Neurobiology Hamburg (ZMNH) ~ Hamburg ~ Germany

404 - OPTIMISING REGULATORY MACROPHAGES ACTIVATION PHENOTYPE FOR IMMUNOTHERAPY IN AUTOIMMUNE DISEASES

Roham Parsa⁽¹⁾, Pernilla Andresen*⁽¹⁾, Robert A. Harris⁽¹⁾

- ⁽¹⁾Karolinska Institute ~ Stockholm ~ Sweden

148 - P2X7 PURINERGIC RECEPTOR ON MONOCYTES OF PATIENTS WITH MULTIPLE SCLEROSIS: EFFECTS OF GLATIRAMER ACETATE IMMUNE MODULATION

Mariantonietta Caragnano*⁽¹⁾, Paola Tortorella⁽¹⁾, Anna Lia⁽²⁾, Maddalena Ruggieri⁽²⁾, Roberta Grasso⁽¹⁾, Paolo Livrea⁽²⁾, Luigi Maria Specchio⁽¹⁾, Maria Trojano⁽²⁾, Carlo Avolio⁽¹⁾

- ⁽¹⁾University of Foggia ~ Foggia ~ Italy - ⁽²⁾University of Bari ~ Bari ~ Italy

545 - POTENCY OF INDIVIDUAL STATINS IN TREATMENT OF CNS AUTOIMMUNITY CORRELATES WITH THEIR RELATIVE INHIBITION OF KEY T CELL SIGNALING PATHWAYS

Sawsan Youssef*⁽¹⁾, Lawrence Steinman⁽²⁾, Scott Zamvil⁽³⁾

- ⁽¹⁾Stanford Medical School ~ Palo Alto ~ United States - ⁽²⁾Stanford Medical School ~ Palo Alto ~ United States - ⁽³⁾UCSF ~ San Francisco ~ United States

271 - PREDICTOR OF THE EFFICACY OF PLASMAPHERESIS/IMMUNOADSORPTION ON MYASTHENIA GRAVIS

Hisao Kitazono*⁽¹⁾, Shingo Konno⁽¹⁾, Mayumi Murata⁽¹⁾, Hiroshi Nakazora⁽¹⁾, Nobuatsu Nomoto⁽¹⁾, Hideki Sugimoto⁽¹⁾, Hiroshi Nemoto⁽¹⁾, Toshiki Fujioka⁽¹⁾

- ⁽¹⁾Toho University Ohashi Medical Centre ~ Tokyo ~ Japan

234 - RESVERATROL, A RED WINE POLYPHENOL COMPONENT, EXACERBATED MOG-INDUCED EAE

Fumitaka Sato*⁽¹⁾, Nicholas Martinez⁽¹⁾, John Rose⁽²⁾, Noel Carlson⁽²⁾, Ikuo Tsunoda⁽¹⁾

- ⁽¹⁾Louisiana State University Health Sciences Center ~ Shreveport ~ United States - ⁽²⁾Veterans Affairs Salt Lake City Health Care System ~ Salt Lake City ~ United States



496 - RETROVIRAL TRANSDUCTION OF MURINE HEMATOPOIETIC CELLS GENERATES MYELOID-DERIVED SUPPRESSOR CELLS THAT MODULATE ANTIGEN-SPECIFIC IMMUNE RESPONSES.

Alba Gómez^{*[1]}, Herena Eixarch^[2], Ramón Gimeno^[1], María José Mansilla^[2], Xavier Montalban^[2], Carmen Espejo^[2], Jordi Barquínero^[1]

- ^[1]Laboratori de Teràpia Cel·lular i Gènica. Institut de Recerca Hospital Universitari Vall d'Hebron (IR-HUVH) ~ Barcelona ~ Spain -

^[2]Unitat de Neuroimmunologia Clínica, IR-HUVH. Centre d'Esclerosis Múltiple de Catalunya (CEM-Cat). ~ Barcelona ~ Spain

240 - RITUXIMAB IN A PATIENT WITH NMO-IGG-POSITIVE OPTICAL NERVE NEURITIS: CLINICAL IMPROVEMENT IS ASSOCIATED WITH DECLINE IN TH17-TYPE- T CELL RESPONSE.

Agnes Pirker^{*[1]}, Paulus Rommer^[1], Marina Rochel^[1], Fritz Leutmezer^[1], Karl Vass^[1], Mascha Schmied^[1]

- ^[1]Dpt. of Neurology, Medical University of Vienna ~ Vienna ~ Austria

370 - SHORT- AND LONG-TERM DIFFERENTIAL GENE EXPRESSION CHANGES IN MULTIPLE SCLEROSIS PATIENTS TREATED WITH SUBCUTANEOUS INTERFERON-BETA-1A

Michael Hecker^{*[1]}, Robert H Goertsches^[1], Dirk Koczan^[1], Christiane Winkler^[2], Hans-Juergen Thiesen^[1], Uwe K Zettl^[2]

- ^[1]University of Rostock, Institute of Immunology ~ 18055 Rostock ~ Germany - ^[2]University of Rostock, Department of Neurology ~ 18147 Rostock ~ Germany

445 - STRUCTURAL INSIGHTS INTO THE MOLECULAR CHAPERONE DEPENDENT THERAPEUTIC FUNCTION OF SMALL HEAT SHOCK PROTEINS IN AUTOIMMUNE DEMYELINATION

Sara Brownell^{*[1]}, Jonathan Rothbard^[1], Lawrence Steinman^[1]

- ^[1]Stanford University ~ Stanford ~ United States

51 - SYNTHETIC FRAGMENTS OF THE NEURONAL RECEPTORS OF BETA-AMYLOID PROVIDE IMMUNOTHERAPEUTIC EFFECT IN MICE WITH EXPERIMENTALLY INDUCED ALZHEIMER'S DISEASE

Anna Kamynina^{*[1]}, Natalia Medvinskaya^[2], Inna Aleksandrova^[2], Tatiana Volkova^[1], Dmitriy Koroev^[1], Natalia Bobkova^[2], Olga Volpina^[1]

- ^[1]Institute of Bioorganic Chemistry ~ Moscow ~ Russia - ^[2]Institute of Cell Biophysics ~ Pushchino ~ Russia

207 - TARGETING NEUTROPHIL FUNCTION BY BOSWELIC ACIDS IN MULTIPLE SCLEROSIS

Klarissa Hanja Stürner^{*[2]}, Kati Tillack^[3], Friedemann Paul^[4], Stephanie Ohlraun^[4], Christoph Heesen^[3], Roland Martin^[3], Mireia Sospedra^[3]

- ^[2]Institute for Neuroimmunology and Clinical Multiple Sclerosis Research (inims), Center for Molecular Neurobiology Hamburg, University Medical Center Hamburg-Eppendorf ~ Hamburg ~ Germany - ^[3]Institute for Neuroimmunology and Clinical Multiple Sclerosis Research (inims), Center for Molecular Neurobiology Hamburg, University Medical Center Hamburg-Eppendorf ~ Hamburg ~ Germany

- ^[4]NeuroCure Clinical Research Center (NCRC), Charité Universitätsmedizin Berlin ~ Berlin ~ Germany

114 - THE DUAL FUNCTION OF DIMETHYL FUMARATE IN MULTIPLE SCLEROSIS

Haiyan PENG^{*[1]}, Elif Akyol^[1], Mireia Guerau^[1], David Pitt^[1], Amy Lovett-Racke^[1], Michael Racke^[1]

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



475 - THE EFFECTS OF DIETARY ANTIOXIDANTS ON GELATINASE ACTIVITY IN CULTURED RAT ASTROCYTES. IMPLICATIONS FOR THE COMPLEMENTARY TREATMENT OF MULTIPLE SCLEROSIS

Maria Teresa Branà ^{*[1]}, Tiziana Latronico^[1], Rocco Rossano^[2], Anna Fasano^[1], Marífena Larocca^[2], Grazia Maria Liuzzi^[1], Paolo Riccio^[2]

- ^[1]Department of Biochemistry and Molecular Biology, "Ernesto Quagliariello", University of Bari ~ Bari ~ Italy - ^[2]Department of Biology D.B.A.F., University of Basilicata ~ Potenza ~ Italy

18 - THE POTENTIAL FOR NEUROPROTECTION AND NEUROGENESIS BY IMMUNOMODULATORY TREATMENT WITH GLATIRAMER ACETAT

Rina Aharoni^{*[1]}, Raya Eilam^[1], Ruth Arnon^[1]

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

167 - THE USE OF A-BETA-HSP CONJUGATE AS A NOVEL VACCINATION APPROACH FOR ALZHEIMER'S DISEASE

Anna Nemirovsky^[1], Rona Baron^[2], Irun Cohen^[3], Alon Monsonego^[4]

- ^[1]Ben-Gurion University of the Negev ~ Beer Sheva ~ Israel - ^[2]Ben-Gurion University of the Negev ~ Beer-Sheva ~ Israel - ^[3]The Weizmann Institute of Science ~ Rehovot ~ Israel - ^[4]Ben-Gurion University of the Negev ~ Beer-Sheva ~ Israel

500 - TOLEROGENIC DENDRITIC CELLS: A POTENTIAL NEW TREATMENT IN MS PATIENTS?

Dàlia Raïch-Regué^{*[1]}, Laia Grau-Lopez^[2], Mar Naranjo-Gomez^[1], Cristina Ramo-Tello^[2], Ricardo Pujol-Borrell^[1], Francesc E. Borràs^[1], Eva M. Martínez-Caceres^[1]

- ^[1]LIRAD-BST. INSTITUT GERMANS TRIAS I PUJOL ~ BADALONA ~ Spain - ^[2]NEUROLOGY DEPT. INST. GERMANS TRIAS I PUJOL ~ BADALONA ~ Spain

644 - ANALGESIC EFFECT OF CYCLOOXYGENASE-2 INHIBITOR GW406381X ON NEUROPATHIC PAIN IN INJURED RAT SPINAL CORD

Laya Kafami^{*[1]}, Alí Gorji^[2]

- ^[1]Tehran University of Medical Sciences. Tehran, Iran - ^[2]Institut für Physiologie I, Westfälische Wilhelms-Universität Münster, Münster, Germany



Poster Session 11Poster Hall13.30 – 15.00
Immunological mechanisms

**295 - ALTERATIONS OF IL-1BETA AND HYPOTHALAMIC NEUROPEPTIDE MRNA
EXPRESSION BY CHRONIC INFLAMMATION IN CONDITIONS OF NORMOFEEDING,
OVERFEEDING AND UNDERFEEDING**

Andrea Stofkova*⁽¹⁾, Martina Skurlova⁽¹⁾, Jana Jurcovicova⁽¹⁾

- ⁽¹⁾Third Faculty of Medicine, Charles University ~ Prague ~ Czech Republic

**193 - ANTI-NMDAR ENCEPHALITIS: COMPLEMENT ACTIVATION IN THE TUMOR
BUT NOT IN THE BRAIN**

Eugenia Martínez-Hernández*⁽¹⁾, Josep Dalmau⁽¹⁾

- ⁽¹⁾Hospital of the University of Pennsylvania ~ Philadelphia ~ United States

**597 - ASSOCIATIONS OF TLR9 RS352140 POLYMORPHISMS WITH MYASTHENIA
GRAVIS IN CHINESE HAN NATIONALITY**

Haifeng Li*⁽¹⁾, Yanchen Xie⁽²⁾, Liang Sun⁽³⁾, Hua Zhang⁽⁴⁾, Zhaolin Sun⁽¹⁾

- ⁽¹⁾Department of Neurology, Affiliated Hospital of Medical College, Qingdao University ~ Qingdao ~ China - ⁽²⁾Department of Neurology, Beijing Friendship Hospital, Capital Medical University ~ Beijing ~ China - ⁽³⁾National Institute of Geriatrics, Beijing Hospital ~ Beijing ~ China - ⁽⁴⁾Department of Neurology, Beijing Hospital ~ Beijing ~ China

**103 - BLIMP-1 EXPRESSION IN T AND B CELLS FROM RELAPSING REMITTING
MULTIPLE SCLEROSIS PATIENTS**

Raffaele Iorio*⁽¹⁾, Domenico Plantone⁽¹⁾, Giovanni Frisullo⁽¹⁾, Viviana Nociti⁽¹⁾, Agata Katia Patanella⁽¹⁾, Pietro Attilio Tonali⁽¹⁾, Anna Paola Batocchi⁽¹⁾

- ⁽¹⁾Catholic University ~ Roma ~ Italy

**157 - BRAIN TISSUE DAMAGE AND INFLAMMATORY RESPONSE INDUCED BY
KALIOTOXIN**

Amina Mendil⁽¹⁾, Sonia Adı-Bessalem⁽¹⁾, Djelila Hammoudi-Triki⁽¹⁾, Marie France Martin-Eauclaire⁽³⁾, Fatima Laraba-Djebari*⁽¹⁾

- ⁽¹⁾Laboratoire de Biologie Cellulaire et Moléculaire, Faculté des Sciences Biologiques, Université des Sciences et de la Technologie "Houari Boumédiène" Bab Ezzouar, Alger, Algérie - ⁽³⁾CNRS UMR3132 CRN2M, IFR Jean Roche, Université de la Méditerranée, Faculté de Médecine Nord, Marseille, Cedex, France

**162 - CLINICALLY RELEVANT REGULATORY ROLE FOR CNS-SPECIFIC AUTOREACTIVE
CD8+ T CELLS IN MULTIPLE SCLEROSIS**

Ethan Baughman⁽¹⁾, Sterling Ortega⁽¹⁾, Jason Mendoza⁽¹⁾, Nathan York⁽¹⁾, Benjamin Greenberg⁽¹⁾, Elliot Frohman⁽¹⁾, Nitin Karandikar*⁽¹⁾

- ⁽¹⁾UT Southwestern Medical Center ~ Dallas ~ United States

**479 - CNS-DRAINING LYMPH NODES CONTAIN MYELIN AND NEURONAL ANTIGENS
DURING DEMYELINATION AND DRIVE RELAPSE SEVERITY IN EAE.**

Jon Laman*⁽¹⁾, Ruth Huizinga⁽¹⁾, Nicole Heijmans⁽³⁾, Marjan van Meurs⁽¹⁾, Annet Wierenga-Wolf⁽¹⁾, Marie-José Melief⁽¹⁾, Rogier Hintzen⁽¹⁾, Bert 't Hart⁽³⁾, Sandra Amor⁽³⁾, Leonie Boven⁽¹⁾, Marloes van Zwam⁽¹⁾

- ⁽¹⁾Erasmus MC ~ Rotterdam ~ Netherlands - ⁽³⁾Biomedical Primate Research Centre ~ Rijswijk ~ Netherlands

Thursday October 28th, 2010 - Poster Session 11



206 - CNS-TARGETED PRODUCTION OF IL-17A INDUCES ASTROCYTOSIS AND MICROGLIAL ACTIVATION WITHOUT NEUROLOGICAL SYMPTOMS OR SEVERE TISSUE DAMAGE

Julian Zimmermann^{*[1]}, Marius Krauthausen^[1], Carina Conrad^[1], Markus J Hofer^[2], Michael T Heneka^[1], Iain L Campbell^[3], Marcus M Müller^[1]

- ^[1]University hospital of Bonn ~ Bonn ~ Germany - ^[2]University hospital of Marburg ~ Marburg ~ Germany - ^[3]The University of Sydney ~ Sydney ~ Australia

450 - CYTOKINES AND PERIPHERAL BLOOD NATURAL KILLER CELL CYTOTOXICITY CROSSTALK DURING RESTRAINT STRESS CAN BE INFLUENCED BY STRESS GENOTYPE IN PIG

Ziemowit Ciepielewski^{*[1]}, Wojciech Stojek^[1], Wojciech Glac^[1], Dorota Myslinska^[1], Danuta Lewandowska^[1]

- ^[1]Department of Animal Physiology, University of Gdansk ~ Gdansk ~ Poland

434 - CYTOTOXIC FUNCTION OF ANTI-AQUAPORIN-4 ANTIBODIES IN NEUROMYELITIS OPTICA

Simone Mader^{*[1]}, Kathrin Schanda^[1], Thomas Berger^[1], Markus Reindl^[1]

- ^[1]Clinical Department of Neurology, Innsbruck Medical University ~ Innsbruck ~ Austria

126 - CYTOTOXICITY INDUCED BY ANDROCTONUS AUSTRALIS HECTOR VENOM

Hammoudi-Triki Djelila^{*[1]}, Saïdi Hadjer^[1], Guestini Fouzia^[1], Allouache Lamia^[1], Mendil Amina^[1], Ad-Bessalem Sonia^[1], Laraba-Djebari Fatima^[1]

- ^[1]USTHB, University ~ Algiers ~ Algeria

102 - DIFFERENCES IN CELLULAR IMMUNITY ASSOCIATED WITH ACTIVE DISEASE IN PATIENTS WITH MS AND NMO

Makoto Matsui^{*[1]}, Naomi Hashiba^[1], Shin-ichi Araya^[1], Hiroyuki Inada^[1], Shigemi Nagayama^[1], Keiko Tanaka^[1], Tetsuro Konishi^[2]

- ^[1]Kanazawa Medical University ~ Uchinada ~ Japan - ^[2]Utano National Hospital ~ Kyoto ~ Japan

353 - DOES ANTI-INFLAMMATORY CYTOKINE IL-10 HELP TO RESTORE FEMALE CYCLE INTEGRITY AFTER IMMUNOLOGICAL CHALLENGE?

Zsuzsanna Barad^{*[1]}, Klaudia Barabás^[2], Endre Kiss^[3], Dorottya Kövesdi^[3], Gabriella Sármay^[3], István Ábrahám^[1]

- ^[1]Ctr. for Neuroendocrinology, Dept. Physiol, Univ. of Otago ~ Dunedin ~ New Zeland - ^[2]Inst. of Med. Sciences, Univ. of Aberdeen ~ Aberdeen ~ United Kingdom - ^[3]Dept of Immunol., Eotvos Lorand Univ. ~ Budapest ~ Hungary

477 - EFFECTOR AND REGULATORY T CELL DYNAMICS IN AUTOIMMUNITY

Sara Martínez^[1], Pablo Villoslada^[2]

- ^[1]Institute of Biomedical Research August Pi Sunyer (IDIBAPS) – Hospital Clinic of Barcelona. ~ Barcelona ~ Spain - ^[2]Institute of Biomedical Research August Pi Sunyer (IDIBAPS) – Hospital Clinic of Barcelona ~ Barcelona ~ Spain

366 - EFFECTOR FUNCTIONS OF GM-CSF IN CNS INFLAMMATION

Lysann Hesske^[1], Christine Vincenzetti^[1], Britta Engelhardt^[2], Stefan Tschanz^[3], Marco Prinz^[4], Mathias Heikenwalder^[5], Walter Reith^[6], Adriano Fontana^[1], Tobias Suter^{*[1]}

- ^[1]Clinical Immunology ~ Zurich ~ Switzerland - ^[2]Theodor Kocher Institute ~ Berne ~ Switzerland - ^[3]Institute of Anatomy ~ Berne ~ Switzerland - ^[4]Department of Neuropathology ~ Freiburg ~ Germany - ^[5]Department of Pathology ~ Zurich ~ Switzerland - ^[6]Department of Pathology and Immunology ~ Geneva ~ Switzerland

221 - ENDOTHELIAL INACTIVATION IN NATALIZUMAB-TREATED MULTIPLE SCLEROSIS PATIENTS

Florian Deisenhammer^{*[1]}, Alban Millonig^[1], Harald Hegen^[1], Claudia Gneiss^[1], Thomas Berger^[1], Markus Reindl^[1]

- ^[1]Innsbruck Medical University ~ Innsbruck ~ Austria



191 - GRANULE EXOCYTOSIS PATHWAY CONTRIBUTES TO NK CELLS-MEDIATED KILLING OF AUTOLOGOUS T CELLS IN MULTIPLE SCLEROSIS (MS)

Wenzheng Jiang¹, Bibiana Bielekova¹

- ¹National Institute of Health ~ Bethesda ~ United States

476 - HAS THE CHEMOKINE DELETION POYMORPHISM CCR5DELTA32 A DUAL ROLE REGARDING SUSCEPTIBILITY/SEVERITY IN MULTIPLE SCLEROSIS?

Andreia Bettencourt^{*1}, Ana M Silva², Ernestina Santos², Cláudia Carvalho¹, Bárbara Leaf¹, Ester Coutinho², Paulo P Costa³, Berta M Silva¹

- ¹UMIB-Instituto de Ciências Biomédicas Abel Salazar (ICBAS-UP) ~ Porto ~ Portugal - ²Centro Hospitalar do Porto-Hospital de Santo António (CHP-HSA) ~ Porto ~ Portugal - ³Instituto Nacional de Saúde Dr. Ricardo Jorge (INSA) ~ Porto ~ Portugal

474 - HEAT SHOCK PROTEIN-70 EXPRESSION IS UP-REGULATED IN RELAPSING-REMITTING MS PATIENTS

María Jose Mansilla^{*3}, Manuel Comabella³, Carme Costa³, Mireia Castillo³, Jordi Rio³, Roland Martin², Xavier Montalbán³, Carmen Espejo³

- ²Institute for Neuroimmunology and Clinical Multiple Sclerosis Research. ~ Hamburg ~ Germany - ³Centre d'Esclerosi Múltiple de Catalunya (CEM-Cat) ~ Barcelona ~ Spain

331 - IFN-G PROTECTS FROM LETHAL ENCEPHALOMYELITIS BY INHIBITING IL-17-MEDIATED RESPONSE INDEPENDENT OF CNS NEUTROPHIL RECRUITMENT

Carine Savarin^{*1}, Stephen Stohlman¹, Daniel Cua², Cornelia Bergmann¹

- ¹Cleveland Clinic Foundation ~ Cleveland ~ United States - ²Shering-Plough Biopharma ~ Palo Alto ~ United States

231 - IMPACT OF IL-17, AND IL-23P19 ON THE NEUTROPHIL AND T-CELL RESPONSE IN MURINE BRAIN ABSCESS

Josephin Held^{*1}, Lydia Richter¹, Michael Meisen¹, Frank L. Heppner¹, Werner Stenzel¹

- ¹Department of Neuropathology ~ Berlin ~ Germany

138 - IMPAIRED RESPONSES TO GUT MICROBES AND GLIADINS IN SPLENOCYTES FROM MICE WITH ALTERED STRESS-RELATED BEHAVIORAL AND PREMATURE IMMUNE SENESCENCE

Giada De Palma^{*3}, Carmen Vida⁴, Arlette Santacruz¹, Nuria M. De Castro⁴, Monica De la Fuente⁴, Yolanda Sanz¹

- ¹Microbial Ecophysiology and Nutrition Group. Institute of Agrochemistry and Food Technology (IATA), Spanish National Research Council (CSIC) ~ Valencia ~ Spain - ²Microbial Ecophysiology and Nutrition Group. Institute of Agrochemistry and Food Technology (IATA), Spanish National Research Council (CSIC) ~ Valencia ~ Spain - ³Department of Physiology. Faculty of Biology. Complutense University of Madrid ~ Madrid ~ Spain

459 - IMPAIRMENT OF MONOCYTE-DERIVED DENDRITIC CELLS TO INDUCE REGULATORY T-CELLS IN MULTIPLE SCLEROSIS.

Amber Nuyts^{*1}, Nathalie Cools¹, Kirsten Van Camp¹, Kevin Lenders¹, Barbara Stein¹, Guy Nagels², Marie Beatrice D'hooghe², Barbara Willekens³, Zwi N. Berneman¹, Viggo F.I. Van Tendeloo¹

- ¹Laboratory of Experimental Hematology, Vaccine & Infectious Disease Institute (Vaxinfectio) - Antwerp University ~ Antwerp ~ Belgium - ²Department of Neurology, National MS Center ~ Melsbroek ~ Belgium - ³Department of Neurology, Antwerp University Hospital ~ Antwerp ~ Belgium



220 - IN VITRO ACTIVATED CD4+ T CELLS DISPLAY EARLY UP-REGULATION OF FOXP3 MRNA

Livia Garzetti^{*[1]}, Marianna Esposito^[2], Francesca Ruffini^[3], Alessandra Bergami^[4], Gianvito Martino^[5], Roberto Furlan^[6]

- ^[1]San Raffaele Scientific Institute-INSPE ~ Milan ~ Italy - ^[2]King's College London-Immunoregulation Laboratory ~ London ~ United Kingdom - ^[3]San Raffaele Scientific Institute-INSPE ~ Milan ~ Italy - ^[4]San Raffaele Scientific Institute-INSPE ~ Milan ~ Italy - ^[5]San Raffaele Scientific Institute-INSPE ~ Milan ~ Italy - ^[6]San Raffaele Scientific Institute-INSPE ~ Milan ~ Italy

141 - INFLUENCE OF GUT BACTERIA AND GLIADINS ON DENDRITIC CELL FUNCTION

Giada De Palma^{*[2]}, Jana Cinova^[3], Renata Stepankova^[3], Ludmila Tuckova^[3], Yolanda Sanz^[2]

- ^[2]Microbial Ecophysiology and Nutrition Group, Institute of Agrochemistry and Food Technology (IATA), National Spanish Research Council (CSIC) ~ Valencia ~ Spain - ^[3]Institute of Microbiology, Dept Immunology, Academy of Sciences of the Czech Republic ~ Prague ~ Czech Republic

253 - INVOLVEMENT OF CIRCULATING PERFORIN+CD8+CD56- T CELLS AND PERFORIN+CD8+CD56+DIM NK CELLS IN MS DISABILITY PROGRESSION

Giovanni Frisullo^[1], Viviana Nociti^[1], Raffaele Iorio^[1], Domenico Plantone^[1], Agata Katia Patanella^[1], Alessandro Marti^[1], Assunta Bianco^[1], Pietro Attilio Tonalì^[1], Anna Paola Batocchi^{*[1]}

- ^[1]Catholic University ~ Rome ~ Italy

594 - LINKING EBV WITH AUTOIMMUNITY AND PREACTIVE LESIONS IN MULTIPLE SCLEROSIS

Sandra Amor^{*[1]}, Hans van Noort^[2], Malika Bsibsi^[2], Wouter Gerritsen^[1], Paul van der Valk^[1]

- ^[1]Pathology Department VUMC ~ Amsterdam ~ Netherlands - ^[2]DeltaCrystallon ~ Leiden ~ Netherlands

533 - MANNOSE BINDING LECTIN IN GUILLAIN-BARRÉ SYNDROME.

Ayumi Uchibori^{*[1]}, Atsuro Chiba^[1]

- ^[1]Kyorin University ~ Tokyo ~ Japan

182 - MAPPING OF THE CORTICOTROPIN-RELEASING FACTOR (CRF) FAMILY OF PEPTIDES AND RECEPTORS IN FIBROBLASTS-LIKE SYNOVIOCYTES FROM OSTEOARTHRITIS AND RHEUMATOID ARTHRITIS PATIENTS.

Selene Pérez-García^{*[1]}, Yasmina Juarranz^[1], Mar Carrión^[1], Irene Gutiérrez-Cañas^[1], Carmen Martínez^[2], Javier Leceta^[1], Rebeca Jimeno^[1], José Luis Pablos^[5], Christos Tsatsanis^[6], Rosa P. Gomariz^[1]

- ^[1]Departamento de Biología Celular, Facultad de Biología, Universidad Complutense de Madrid ~ Madrid ~ Spain - ^[2]Facultad de Medicina, Universidad Complutense de Madrid ~ Madrid ~ Spain - ^[5]Servicio de Reumatología y Unidad de Investigación, Hospital 12 de Octubre ~ Madrid ~ Spain - ^[6]Department of Clinical Chemistry, School of Medicine, University of Crete ~ Heraklion, Crete ~ Greece

127 - MIDKINE EXACERBATES EXPERIMENTAL AUTOIMMUNE ENCEPHALOMYELITIS THROUGH SUPPRESSING EXPANSION OF REGULATORY DENDRITIC CELLS

Sonobe Yoshifumi^{*[1]}, Li Hua^[1], Takeuchi Hideyuki^[1], Mizuno Tetsuya^[1], Suzumura Akio^[1]

- ^[1]Nagoya University ~ Nagoya ~ Japan

356 - NEUROFASCIN IMMUNOREACTIVITY IN MS

Jennifer Black^{*[1]}, Mark S. Freedman^[2]

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



549 - OPPOSING AND DISEASE STAGE SPECIFIC ACTIVITY OF INTERFERON GAMMA IN EAE MODULATED BY TYPE I INTERFERON SIGNALS

Chander Raman^{*[1]}, Rodrigo Naves^[1], Simer Preet Singh^[1], Kevin Cashman^[1], Robert Axtell^[2], Lawrence Steinman^[2], Patrizia De Sarno^[1]

- ^[1]University of Alabama at Birmingham ~ Birmingham ~ United States - ^[2]Stanford University ~ Palo Alto ~ United States

518 - OPPOSING REGULATION BETWEEN LYMPHOID TISSUE INDUCER CELLS AND IMMUNOREGULATORY CD56BRIGHT NK CELLS UNDERLIES THERAPEUTIC BENEFIT OF DACLIZUMAB IN MS

Justin Perry^[1], SungPil Han^{*[1]}, Lucy Boyce Kennedy^[1], Bielekova Bibiana^[1]

- ^[1]NIH/NINDS/Neuroimmunology Branch ~ Bethesda ~ United States

128 - PHARMACOLOGICAL ASSESSMENT OF SOME INFLAMMATORY MEDIATORS INDUCED BY COMPONENTS OF SCORPION VENOM

Adi-Bessalem Sonia^{*[1]}, Sami-Merah Sasia^[1], Mendi Amina^[1], Hammoudi-Triki Djelila^[1], Laraba-Djebari Fatima^[1]

- ^[1]USTHB University ~ Algiers ~ Algeria

581 - ROLE OF SEROTONIN IN EXPERIMENTAL AUTOIMMUNE ENCEPHALOMYELITIS

Roopa Bhat^{*[1]}, Robert Axtell^[1], Sara Brownell^[1], Ronald Alfa^[1], Lawrence Steinman^[1]

- ^[1]Stanford University ~ Stanford ~ United States

139 - THE HLA-DRB1*1501 - MULTIPLE SCLEROSIS ASSOCIATION: MOLECULAR BASIS AND MODULATION BY VDR

Haritz Irizar^[1], Maider Muñoz-Culla^[1], Tamara Castillo^[1], Alvaro Prada^[1], Matias Saenz^[1], Dolores De Juan^[1], Adolfo Lopez de Munain^[1], Javier Olascoaga^[1], David Otaegui^[1]

- ^[1]Biodonostia Health Research Institute ~ Donostia - San Sebastian ~ Spain

123 - THE PRESENCE OF MYELOID SUPPRESSOR CELLS IS RELATED TO LYMPHOCYTE APOPTOSIS IN MULTIPLE SCLEROSIS

Verónica M^a Moliné Velázquez^{*[1]}, Henar Cuervo^[2], Virginia Vila del Sol^[1], Cristina Ortega Muñoz^[1], Diego Clemente Lopez^[1], Fernando de Castro Soubriet^[1]

- ^[1]Hospital Nacional de Paraplégicos ~ Toledo ~ Spain - ^[2]CSIC-Universidad Autónoma de Madrid ~ Madrid ~ Spain

306 - THE ROLE OF CITRULLINATION OF CENTRAL NERVOUS SYSTEM PROTEINS IN THE PATHOGENESIS OF MULTIPLE SCLEROSIS

Claire Bradford^{*[1]}, Alison Cross^[1], Gail Haddock^[1], Nicola Woodroffe^[1]

- ^[1]Sheffield Hallam University ~ Sheffield ~ United Kingdom

432 - TOLEROGENTIC EFFECT OF APOPTOTIC CELLS ON DC – ROLE OF DIFFERENT INDUCERS OF APOPTOSIS

Viktoria Gredler^{*[2]}, Sara Yousef^[3], Kathrin Schanda^[2], Markus Reindl^[2], Thomas Berger^[2], Mireia Sospedra^[3], Roland Martin^[3], Andreas Lutterotti^[2]

- ^[2]Clinical Department of Neurology, Innsbruck Medical University ~ Innsbruck ~ Austria - ^[3]Center for Molecular Neurobiology Hamburg, University Medical Center Eppendorf ~ Hamburg ~ Germany



580 - TREATMENT OF MCMV INFECTED NEWBORN MICE WITH THE ANTI-INFLAMMATORY DRUG, DEXAMETHASONE, LIMITS ABNORMAL DEVELOPMENT OF THE CEREBELLUM

Kate Kosmac^{*[1]}, Glenn Bantug^[1], Djurdjica Cekinovic^[2], Thad Koontz^[1], Ester Pernjak-Pugel^[2], Stipan Jonjic^[2], William J. Britt^[1]

- ^[1]University of Alabama at Birmingham ~ Birmingham ~ United States - ^[2]University of Rijeka ~ Rijeka ~ Croatia

519 - DENDRITIC CELLS CONTROL TOLERANCE IN EAE VIA THE INDUCTION OF TREGS BY THE PD-1 SIGNALLING PATHWAY

Nir Yogev^[1], Friederike Frommer^[1], Dominika Lukas^[1], Daniele Ielo^[1], Ester von Stebut^[2], Maries van den Broek^[3], Dieter Riethmacher^[4], Steffen Jung^[5], Marco Prinz^[6], Florian Kurschus^{*[1]}, Ari Waisman^[1]

- ^[1]Institute for Molecular Medicine, University Medical Center of the Johannes Gutenberg-University Mainz, Germany - ^[2]Department of Dermatology, University Medical Center of the Johannes Gutenberg University, Mainz, Germany - ^[3]Institute of Experimental Immunology, University Hospital, Zurich, Switzerland - ^[4]Human Genetics Division, University of Southampton, UK - ^[5]Department of Immunology, The Weizmann Institute of Science, Rehovot, Israel - ^[6]Department of Neuropathology, University of Freiburg, Germany

17 - MODELING TYPE I IFN PATHWAY IN MACROPHAGES: IMPLICATIONS FOR IMMUNOTHERAPY

Inna Pertsovskaya^{*[1]}, Nuria Domedel-Puig^[2], Jordi Garcia-Ojalvo^[2], Pablo Villoslada^[1]

- ^[1]IDIBAPS, Institute of Biomedical Research August Pi Sunyer, Hospital Clinic, Barcelona, Spain - ^[2]Universitat Politecnica de Catalunya, Terrasa, Spain



**Poster Session 12Poster Hall13.30 – 15.00
T Cells**

598 - CD4+ T CELL RESPONSES TO AMYLOID- PEPTIDE ARE CONTROLLED BY BOTH MHC-DEPENDENT AND -INDEPENDENT FACTORS IN MICE: CRITICAL ROLE OF REGULATORY T CELLS

Cécile Toly-Ndour^[1], Gabriëlle Lui^[1], Martine Bruley-Rosset^[1], Pierre Aucouturier^[1], Guillaume Dorothee^{*[1]}

- ^[1]UPMC and INSERM UMRS 938, Immune System and Conformational Diseases, St. Antoine Hospital, Paris, France

528 - ANTI-AQUAPORINE 4 AND MYELIN T CELL RESPONSE IN NEUROMYELITIS OPTICA

Takayuki Kondo^{*[1]}, Nemu Matsuya^[2], Miika Komori^[3], Kyouichi Nomura^[4], Hidenori Matsuo^[2]

- ^[1]Kitano Hospital, the Tazuke Kofukai Foundation, Medical Research Institute ~ Osaka ~ Japan - ^[2]National Hospital organization Nagasaki Kawatana Medical Center ~ Nagasaki ~ Japan - ^[3]Kyoto University ~ Kyoto ~ Japan - ^[4]Saitama Medical Center ~ Kawagoe ~ Japan

35 - AUTOAGGRESSIVE T CELL RECEPTORS IN THE MS BRAIN: IDENTIFICATION, RECONSTRUCTION AND ANTIGEN(S) SEARCH

Latika Bhonsle^{*[1]}, David Laplaud^[1], Katherina Siewert^[1], Hartmut Wekerle^[1], Reinhard Hohlfeld^[1], Klaus Dornmair^[1]

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

341 - CCR2+CCR5+ CD4+ T CELLS ENRICHED IN CEREBROSPINAL FLUID OF RELAPSING MULTIPLE SCLEROSIS PATIENTS STRONGLY EXPRESS MATRIX METALLOPROTEINASE-9 AND OSTEOPONTIN

Wakiro Sato^{*[1]}, Atsuko Tomita^[2], Youwei Lin^[3], Masafumi Ogawa^[3], Tomoko Okamoto^[3], Miho Murata^[3], Toshimasa Aranami^[2], Takashi Yamamura^[2]

- ^[1]Max Planck Institute of Neurobiology ~ Muenchen ~ Germany - ^[2]National Institute of Neuroscience, NCNP ~ Tokyo ~ Japan - ^[3]National Center Hospital of Neurology and Psychiatry ~ Tokyo ~ Japan

346 - CD4+ TH17 CELLS RATHER THAN CD8+ T CELLS CONTRIBUTE TO CLINICAL DISEASE SEVERITY IN EXPERIMENTAL AUTOIMMUNE ENCEPHALOMYELITIS

Magdalena Paterka^{*[1]}, Tina Leuenberger^{*[1]}, Frauke Zipp^[2], Volker Siffrin^[2]

- ^[1]Max Delbrueck Center for Molecular Medicine ~ Berlin-Buch ~ Germany - ^[2]Neurology Department, University Medicine Mainz ~ Mainz ~ Germany

548 - CHARACTERIZATION OF DOPAMINE RECEPTORS EXPRESSED ON T-CELLS

Hugo Gonzalez^{*[3]}, Carolina Prado^[1], Magaly Barrientos^[3], Rodrigo Pacheco^[1]

- ^[1]Fundacion Ciencia para la Vida ~ Santiago ~ Chile - ^[3]Fundacion Ciencia para la Vida ~ Santiago ~ Chile

511 - CHARACTERIZATION OF EBV-SPECIFIC CD8+ T CELLS IN MULTIPLE SCLEROSIS

Eleonora Piras^[1], Giovanna Borsellino^[1], Adamo Diamantini^[1], Claudio Gasperini^[2], Simona Galgani^[2], Maria Grazia Grasso^[1], Rosella Mechelli^[3], Viviana Annibali^[3], Francesca Aloisi^[4], Giovanni Ristori^[3], Marco Salvetti^[3], Giorgio Bernardi^[5], Diego Centonze^[5], Luca Battistini^[1], Daniela Francesca Angelini^{*[1]}

- ^[1]Fondazione Santa Lucia ~ Rome ~ Italy - ^[2]Department of Neuroscience "Lancisi", San Camillo Hospital ~ Rome ~ Italy - ^[3]Department of Neurology and Center for Experimental Neurological Therapy, S Andrea Hospital, University of Rome La Sapienza ~ Rome ~ Italy - ^[4]Department of Cell Biology and Neuroscience, Istituto Superiore di Sanità ~ Rome ~ Italy - ^[5]Department of Neuroscience, University of Rome Tor Vergata ~ Rome ~ Italy



250 - CX3CR1 IS A MARKER FOR SENESCENT CD4+ T CELLS AND POTENTIATES MIGRATION INTO THE BRAIN OF MULTIPLE SCLEROSIS PATIENTS

Bieke Broux^{*[1]}, Niels Hellings^[1], Kim Pannemans^[1], Tom Broekmans^[1], Bert Op 'T Eynde^[1], Bart Van Wijmeersch^[2], Veerle Somers^[1], Piet Geusens^[3], Piet Stinissen^[1]

- ^[1]Hasselt University, Biomedical Research Institute and transnationale Universiteit Limburg ~ Diepenbeek ~ Belgium - ^[2]Revalidatie en MS-centrum ~ Overpelt ~ Belgium - ^[3]Reumatologie ~ Genk ~ Belgium

507 - DIFFERENTIAL ROLE OF PLASMACYTOID AND MYELOID DENDRITIC CELLS IN TREGULATORY/TEFFECTOR BALANCE IN MS

Elisabetta Volpe^{*[1]}, Maria Grazia Grasso^[1], Giovanna Borsellino^[1], Adamo Diamantini^[1], Claudio Gasperini^[2], Marco De Bardi^[1], Mario Picozza^[1], Diletta Di Mitri^[1], Diego Centonze^[3], Luca Battistini^[1]

- ^[1]Neuroimmunology Unit, IRCCS Santa Lucia Foundation ~ Rome ~ Italy - ^[2]Department of Neuroscience "Lancisi", San Camillo Hospital ~ Rome ~ Italy - ^[3]Department of Neuroscience, University of Rome Tor Vergata, Rome, Italy

130 - EARLY RECRUITMENT OF EFFECTOR MEMORY CD8+ T LYMPHOCYTES DURING NEUROINFLAMMATION IS DEPENDENT ON ALPHA-4 INTEGRIN

Igal Ifergan^{*[1]}, Hania Kebir^[1], Jorge Alvarez^[1], Gabriel Marceau^[2], Pierre Talbot^[2], Nathalie Arbour^[1], Alexandre Prat^[1]

- ^[1]CHUM-Notre-Dame Hospital ~ Montréal ~ Canada - ^[2]INRS-Institut Armand-Frappier ~ Laval ~ Canada

509 - EFFECT OF GLUCOCORTICOID AND ADRENOMEDULLIN ON AM1 AND AM2 EXPRESSION BY T CELLS

Elisabetta Liverani^[1], Julie McLeod^[2], Ruth Morse^[2], Carolyn Paul^{*[2]}

- ^[1]William Harvey Research Institute ~ London ~ United Kingdom - ^[2]University of the West of England ~ Bristol ~ United Kingdom

564 - EXPRESSION, CHARACTERIZATION AND FUNCTIONAL ROLE OF INTEGRIN A8B1 IN HUMAN CD4 T HELPER CELLS: POTENTIAL ROLE IN MULTIPLE SCLEROSIS.

Steve Gendron^{*[1]}, Alexandre Prat^[1]

- ^[1]Centre de Recherche du CHUM, Université de Montréal ~ Montréal ~ Canada

289 - IL-7RA SIGNALLING IS INCREASED IN CD8 T-CELLS OF MULTIPLE SCLEROSIS PATIENTS

Karim L. Kreft^{*[3]}, Evert Verbraak^[1], Annet Wierenga-Wolf^[1], Marjan van Meurs^[1], Jon Laman^[1], Rogier Hintzen^[1]

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

397 - IMMUNODOMINANT T CELL DETERMINANTS OF THE AUTOANTIGEN, AQUAPORIN-4

Patricia Nelson^{*[1]}, Mojgan Khodadoust^[1], Collin Spencer^[1], Michel Varrin-Doyer^[1], Juan Carlos Patarroyo^[1], Thomas Prodhomme^[1], Raymond Sobel^[2], Robert Stroud^[1], Scott Zamvil^[1]

- ^[1]University of California, San Francisco ~ San Francisco ~ United States - ^[2]Stanford University School of Medicine ~ Stanford ~ United States

451 - IN VIVO VISUALIZATION OF ANTIGEN PRESENTATION IN THE CNS

Naoto Kawakami^{*[1]}, Ingo Bartholomäus^[1], Marija Pesic^[1], Francesca Odoardi^[2], Christian Schläger^[2], Alexander Flügel^[2], Hartmut Wekerle^[1]

- ^[1]Max Planck Institute of Neurobiology ~ Martinsried ~ Germany - ^[2]University of Göttingen ~ Göttingen ~ Germany



464 - INTERLEUKIN-27 FAVORS THE DEVELOPMENT OF EFFICIENT CYTOTOXIC HUMAN CD8 T CELLS AND IS LOCALLY PRODUCED IN HUMAN CENTRAL NERVOUS SYSTEM

Raphael Schneider^{*[1]}, Teodora Yaneva^[1], Diane Beauseigle^[1], Alexandre Prat^[1], Nathalie Arbour^[1]

- ^[1]Université de Montréal ~ Montreal ~ Canada

557 - INTERPLAY OF CD4+ AND CD8+ REGULATORY T CELLS IN THE CEREBROSPINAL FLUID OF MULTIPLE SCLEROSIS PATIENTS AT FIRST RELAPSE

Marta Tejera-Alhambra^{*[1]}, Clara De Andres^[1], Roseta Teijeiro^[1], Barbara Alonso^[1], Eduardo Fernandez-Cruz^[1], Sílvia Sanchez-Ramon^[1]

- ^[1]Hospital General Universitario Gregorio Marañón ~ Madrid ~ Spain

184 - MICRORNAs MODULATE IMMUNE FUNCTION IN MULTIPLE SCLEROSIS

Kristen Smith^{*[1]}, Mireia Guerau-de-Arellano^[1], Arianna Bottoni^[1], Michael Racke^[1], Amy Lovett-Racke^[1], Caroline Whitacre^[1]

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

61 - PERIPHERAL OPIOID-INDUCED ANALGESIA IS ASSOCIATED WITH ADAPTIVE T CELL RESPONSE

Jerome Boue^{*[1]}, Catherine Blanpied^[1], Pierre Brousset^[1], Nathalie Vergnolle^[1], Gilles Dietrich^[1]

- ^[1]INSERM U563 ~ Toulouse ~ France

447 - PLASTICITY OF REGULATORY T CELLS: LOSS OF SUPPRESSIVE FUNCTION AND INDUCTION OF CYTOTOXICITY ON HUMAN NEURONS

Yohannes Haile^[1], Diane Turner^[1], Chris Bleackley^[1], Fabrizio Giuliani^{*[1]}

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

556 - PROMOTION OF OLIGODENDROCYTE FORMATION BY MYELIN-REACTIVE T-CELLS

Helle Hvilsted Nielsen^{*[2]}, Henrik Toft-Hansen^[1], Kate Lambertsen^[1], Trevor Owens^[1], Bente Finsen^[1]

- ^[1]Institute of Molecular Medicine, University of Southern Denmark ~ Odense ~ Denmark - ^[2]Department of Neurology, Odense University Hospital ~ Odense ~ Denmark

281 - P-SELECTIN GLYCOPROTEIN LIGAND-1 (PSGL-1) CONTROLS SUPPRESSOR ACTIVITY BY CD4+CD25+FOXP3+ REGULATORY T CELLS

Stefano Angiari^{*[3]}, Barbara Rossi^[3], Laura Piccio^[4], Bernd H. Zinselmeyer^[5], Simone D. Bach^[3], Simona Budui^[3], Elena Zenaro^[3], Anne H. Cross^[4], Mark J. Miller^[5], Gabriela Constantin^[3]

- ^[3]Department of Pathology and Diagnostics, Division of General Pathology, University of Verona ~ Verona ~ Italy - ^[4]Department of Neurology, Washington University ~ St. Louis ~ United States - ^[5]Department of Pathology and Immunology, Washington University ~ St. Louis ~ United States

278 - SIGNALS THAT DRIVE ENCEPHALITOGENIC T CELLS IN TO THE TARGET TISSUE

Marija Pesic^{*[1]}, Ingo Bartholomaeus^[1], Naoto Kawakami^[1], Hartmut Wekerle^[1]

- ^[1]Max-Planck Institute for Neurobiology ~ Munich ~ Germany

577 - THE PARADOXICAL ROLE OF TH1 EFFECTOR CD4 T CELLS DURING AUTOIMMUNE CHRONIC INFLAMMATION

Laurie Harrington^{*[1]}

- ^[1]University of Alabama at Birmingham, USA



229 - THE ROLE OF GLYCOLIPIDS IN THE PATHOGENESIS OF MULTIPLE SCLEROSIS

Nancy J. Biggs^[1], Robert A. Pon^{*[1]}

- ^[1]Institute for Biological Sciences- National Research Council of Canada ~ Ottawa ~ Canada

173 - TWO PORE DOMAIN K⁺ CHANNEL K2P5.1 REGULATES BASIC CELLULAR FUNCTIONS IN NEURO-INFLAMMATORY DISORDERS

Nicole Bobak^{*[1]}, Stefan Bittner^[1], Heinz Wiendl^[1], Sven Meuth^[1]

- ^[1]Uniklinik Würzburg ~ Würzburg ~ Germany

29 - UNRAVELLING THE MHC RESTRICTION ELEMENTS OF AUTO-REACTIVE T-CELLS IN THE MOG34-56/IFA MARMOSET EAE MODEL

Anwar Jagessar^{*[1]}, Nicole Heijmans^[1], Erwin Blezer^[6], Peter van den Elsen^[7], Jon Laman^[8], Bert Hart 't^[1]

- ^[1]Biomedical Primate Research Centre ~ Rijswijk ~ Netherlands - ^[6]University Medical Center Utrecht ~ Utrecht ~ Netherlands -

^[7]Leiden University Medical Center ~ Leiden ~ Netherlands - ^[8]Erasmus Medical Center ~ Rotterdam ~ Netherlands

680 - THE ROLE OF -LYMPHOCYTES IN MULTIPLE SCLEROSIS IMMUNOPATHOGENESIS

Daryā Nizheharodava^{*[1]}, Svetlana Bagatka^[1], Nadya Lisovskaya^[2], Mariya Yurkevich^[1], Yana Motuzova^[3], Marina Zafranskaya^[1]

- ^[1]Belarusian Medical Academy of Post-Graduate Education, Minsk, Belarus - ^[2]International Sakharov Environmental University, Belarus - ^[3]Belarusian State Medical University, Belarus

681 - VAV1 CONTROLS INFLAMMATION IN EXPERIMENTAL AUTOIMMUNE ENCEPHALOMYELITIS (EAE)

Andre Ortlieb Guerreiro-Cacaís^{*[1]}, Amennai Beyeen^[1], Maja Jagodic^[1], Thomas Olsson^[1]

- ^[1]Department of Clinical Neuroscience, Neuroimmunology Unit, Karolinska Institutet, Stockholm, Sweden.



Poster Session 13Poster Hall.....13.30 – 15.00
Mechanisms of nervous system damage

24 - A VACCINE FOR MULTIPLE SCLEROSIS USING A HUMAN NON-MYELIN ANTIGEN

Colin Crawford^{*[1]}, Peter Hardwicke^[2]

- ^[1]Retired ~ London ~ United Kingdom - ^[2]Southern Illinois University ~ Carbondale ~ United States

57 - ACTIVATION OF THE SPHK1/S1P RECEPTOR AXIS IN RESPONSE TO ANOXIA IN PRIMARY RAT ASTROCYTES

Iris Fischer^{*[1]}, Anthony Nichols^[1], Chantal Alliod^[1], Marie Frossard^[1], Sandrine Pouly^[1]

- ^[1]Merck Serono International S.A. ~ Geneva ~ Switzerland

237 - ANTI-AQUAPORIN 4 ANTIBODIES PRESENT IN PATIENTS WITH NEUROMYELITIS OPTICA REDUCES THE WATER PERMEABILITY OF ASTROCYTES PLASMA MEMBRANE

Luciana Melamud^{*[1]}, Juan Fernandez^[2], Valeria Rivarola^[3], Claudia Capurro^[4], Andres Villa^[5]

- ^[1]Hospital Ramos Mejia; Facultad de Medicina, UBA ~ Buenos Aires ~ Argentina - ^[2]Facultad de Medicina, UBA ~ Buenos Aires ~ Argentina - ^[3]Facultad de Medicina, UBA ~ Buenos Aires ~ Argentina - ^[4]Facultad de Medicina, UBA ~ Buenos Aires ~ Argentina - ^[5]Hospital Ramos Mejia ~ Buenos Aires ~ Argentina

388 - ASTROCYTE ELEVATED GENE-1 CONTRIBUTES TO HIV-1-ASSOCIATED DEMENTIA BY MODULATING ASTROCYTE RESPONSES TO INFLAMMATION AND INJURY

Neha Vartak^{*[1]}, Kathleen Borgmann^[1], Lin Tang^[1], Anuja Ghorpade^[1]

- ^[1]University of North Texas Health Science Center ~ Fort Worth ~ United States

267 - CHANGES IN NEUROENDOCRINE FUNCTIONS AND HIPPOCAMPAL EXPRESSIONS AFTER A COMPLETE FREUND'S ADJUVANS (CFA) ADMINISTRATION TO MALE LEWIS RATS

Jana Jurcovicova^{*[2]}, Jana Jurcovicova^{*[3]}, Andrea Stofkova^[2], Martina Skurlova^[2]

- ^[2]Third Faculty of Medicine, Charles University ~ Prague ~ Czech Republic - ^[3]Slovak Academy of Sciences ~ Bratislava ~ Slovakia

288 - CHANGES IN NEUROMUSCULAR JUNCTION AND PERIPHERAL NERVE ASSOCIATED TO ACUTE AND CHRONIC EXPOSITION TO ANTI-GM2 AND GALNAC-GD1A ANTIBODIES.

Nicolau Ortíz^{*[1]}, Manel Santafè^[2], Mar Sabaté^[2], Neus García^[2], Maria Angel Lanuza^[2], Marta Tomas^[2], Nuria Besalduch^[2], Josep Maria Tomas^[2]

- ^[1]Secció de Neurologia, Hospital Universitari Sant Joan. ~ Reus ~ Spain - ^[2]Unitat d'Histologia i Neurobiologia. Facultat de Medicina i Ciències de la Salut, Universitat Rovira i Virgili ~ Reus ~ Spain

175 - CHARACTERIZATION OF THE CYTOKINE PRODUCTION OF T CELLS AND ANTIGEN-PRESENTING CELLS IN THE POSTISCHEMIC INFLAMMATORY RESPONSE FOLLOWING STROKE

Mathias Gelderblom^{*[1]}, Frank Leyboldt^[1], Ellen Orthey^[1], Christian Gerloff^[1], Eva Tolosa^[1], Tim Magnus^[1]

- ^[1]University Hospital Hamburg Eppendorf ~ Hamburg ~ Germany

Thursday October 28th, 2010 - Poster Session 13



486 - CUMULATIVE AUTOIMMUNITY: MYELIN-SPECIFIC CD4 T CELLS CO-RECOGNISE NEUROFILAMENT-MEDIUM

Amit Saxena^{*[1]}, Lílíana Lucca^[1], Abdel raouf Ramadan^[1], Lennart Mars^[1], Roland Liblau^[1], Gurumoorthy Krishnamoorthy^[2], Helena S Domingues^[2], Reinhard Mentele^[3], Avraham Ben-Nun^[4], Hans Lassmann^[5], Klaus Dornmair^[2], Florian Kurschus^[2], Hartmut Wekerle^[2]

- ^[1]Institut National de la Santé et de la Recherche Médicale, Unité 563, Université Toulouse III, Paul-Sabatier ~ Toulouse ~ France -
^[2]Department of Neuroimmunology, Max Planck Institute of Neurobiology ~ Munich, Martinsried ~ Germany - ^[3]Institute of Clinical Neuroimmunology, University Hospital Grosshadern, Ludwig-Maximilians University ~ Munich ~ Germany - ^[4]Department of Immunology, The Weizmann Institute of Science ~ Rehovot ~ Israel - ^[5]Center for Brain Research, Medical University of Vienna ~ Vienna ~ Austria

410 - DIFFERENTLY ACTIVATED MACROPHAGES IN THE CNS: IMPLICATIONS FOR AXONAL DAMAGE AND REPAIR

Elly Vereyken^{*[1]}, Priscilla Heijnen^[1], Judith Glim^[1], Charlotte Teunissen^[1], Christine Dijkstra^[1]

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

179 - FADD IS CRITICAL FOR OLIGODENDROCYTE APOPTOSIS AND THE DEVELOPMENT OF EXPERIMENTAL AUTOIMMUNE ENCEPHALOMYELITIS

Conor Mc Guire^{*[1]}, Thomas Voelckert^[1], Mozes Sze^[1], Uta Wolke^[2], Riet De Rycke^[3], Ari Waisman^[4], Marco Prinz^[2], Rudi Beyaert^[1], Manolis Pasparakis^[5], Geert van Loo^[1]

- ^[1]VIB/UGent ~ Ghent ~ Belgium - ^[2]University of Freiburg ~ Freiburg ~ Germany - ^[3]Ghent University ~ Ghent ~ Belgium - ^[4]Johannes Gutenberg University ~ Mainz ~ Germany - ^[5]University of Cologne ~ Cologne ~ Germany

536 - GSTA4 IS A CANDIDATE GENE FOR REGULATING NEURODEGENERATION IN CNS INJURY AND AUTOIMMUNE NEUROINFLAMMATION

Mikael Ström^[1], Faiez Al Nimer^[1], Rickard Lindblom^[1], Fredrik Piehl^{*[1]}

- ^[1]Karolinska Institutet ~ Stockholm ~ Sweden

111 - HIPPOCAMPAL NEURONS ARE INJURED DURING AUTOIMMUNE ENCEPHALOMYELITIS.

Iwona Kurkowska-Jastrzebska^{*[1]}, Maciej Swiatkiewicz^[2], Małgorzata Zaremba^[2], Agnieszka Piechal^[2], Agnieszka Cudna^[2], Małgorzata Zaremba^[3], Barbara Oderfeld-Nowak^[3], Anna Członkowska^[1]

- ^[1]2nd Department of Neurology, Institute of Psychiatry and Neurology ~ Warsaw ~ Poland - ^[2]Department of Clinical and Experimental Neurology, Medical University ~ Warsaw ~ Poland - ^[3]Nencki Institute of Experimental Biology ~ Warsaw ~ Poland

344 - IL-13 STIMULATES NEURITE OUTGROWTH IN PRIMARY NEURONS AND ORGANOTYPIC BRAIN SLICES

Pía Vidal Vera^{*[1]}, Evi Lemmens^[1], Francesco Boato^[1], Sofie Nelissen^[1], Tim Vanganswinkel^[1], Sven Hendrix^[1]

- ^[1]University of Hasselt ~ Diepenbeek ~ Belgium

174 - IL-1BETA IS NOT A NEGATIVE REGULATOR OF NEUROTROPHIN-3-INDUCED NEURITE OUTGROWTH

Sven Hendrix^{*[1]}, Francesco Boato^[2], Karen Rosenberger^[2], Eva Peters^[1], Robert Nitsch^[3]

- ^[1]Hasselt University ~ Hasselt ~ Belgium - ^[2]Institute of Cell Biology and Neurobiology, Center for Anatomy, Charité ~ Universitätsmedizin ~ Berlin ~ Germany - ^[3]Institute for Microscopic Anatomy and Neurobiology, Johannes Gutenberg University ~ Mainz ~ Germany

442 - LETHAL INJECTION OF GRANZYME-B INTO HUMAN NEURONS: A TIME BOMB RELEASED BY CYTOTOXIC T CELLS DURING CNS INFLAMMATION

Yohannes Haile^[1], Katia Simmen^[1], Nicolas Touret^[1], Thomas Simmen^[1], Chris Bleackley^[1], Fabrizio Giuliani^{*[1]}

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



299 - NEUREXINS MODULATE SYNAPTIC TARGETING OF THE ALPHA 7 NICOTINIC RECEPTOR, A MEDIATOR OF NEUROIMMUNE SIGNALING

Stephanie Amici^[1], Gerald Ponath^[1], Jordan Robson^[1], Susan McKay^[1], Jon Lindstrom^[2], Rene Anand^[1]

- ^[1]The Ohio State University ~ Columbus ~ United States - ^[2]University of Pennsylvania ~ Philadelphia ~ United States

280 - NEUROTRANSMISSION IN MICE MODEL OF PARKINSON'S DISEASE: BEYOND DOPAMINE AND RELATED NON - MOTOR CONSEQUENCES.

MALGORZATA ZAREMBA*^[1], Ilona Joniec^[1], Agnieszka Piechal^[1], Iwona Kurkowska - Jastrzebska^[2], Andrzej Czlonkowski^[1]

- ^[1]Department of Experimental and Clinical Pharmacology, Medical University of Warsaw ~ Warsaw ~ Poland - ^[2]2nd Department of Neurology, Institute of Psychiatry and Neurology, ~ Warsaw ~ Poland

343 - OPPOSING EFFECTS OF IL-4 AND IL-13 ON FUNCTIONAL RECOVERY AFTER SPINAL CORD INJURY

Sofie Nelissen*^[3], Francesco Boato^[3], Evi Lemmens^[3], Robert Nitsch^[4], Sven Hendrix^[3]

- ^[3]Biomedical Research Institute, Hasselt University ~ Diepenbeek ~ Belgium - ^[4]Institute for Microscopic Anatomy and Neurobiology, Johannes Gutenberg University Mainz ~ Mainz ~ Germany

27 - THE ROLE OF FIBROBLAST GROWTH FACTOR-9 IN CHRONICALLY DEMYELINATED MULTIPLE SCLEROSIS LESIONS.

Ariel Arthur*^[1], Hema Mohan^[2], Christina Elliott^[1], Markus Krumbholz^[2], Susan Barnett^[1], Hartmut Wekerle^[2], Reinhard Hohlfeld^[2], Hans Lassmann^[3], Edgar Meinl^[2], Chris Linington^[1]

- ^[1]The University of Glasgow ~ Glasgow ~ United Kingdom - ^[2]Max Planck Institute of Neurobiology ~ Martinsreid ~ Germany - ^[3]Center for Brain Research, Medical University of Vienna ~ Vienna ~ Austria

642 - JAPANESE ENCEPHALITIS VIRUS-INFECTED PERIPHERAL MACROPHAGES MEDIATE NEURONAL DEATH

Dutta Kallol*^[1], Nazmi Arshed^[1], Basu Anirban^[1]

- ^[1]National Brain Research Centre, Manesar, Haryana, India



Poster Session 14.....Poster Hall.....13.30 – 15.00
Brain blood barrier

444 - A4-INTEGRIN-INDEPENDENT MECHANISMS ARE INVOLVED IN INITIATING T CELL INTERACTION WITH THE BLOOD-BRAIN BARRIER DURING EXPERIMENTAL AUTOIMMUNE ENCEPHALOMYELITIS IN VIVO

Karthik Sathiyadan^{*[1]}, Caroline Coisne^[1], Britta Engelhardt^[1]

- ^[1]University of Bern ~ Bern ~ Switzerland

339 - EVALUATION OF VASCULAR ADHESION PROTEIN-1 (VAP-1) EXPRESSION IN MULTIPLE SCLEROSIS BRAIN AND ITS INVOLVEMENT IN DISEASE PATHOGENESIS IN EAE

Laura Airas^{*[1]}, Barbara Langen^[2], Rita Dost^[2], Thua Österman^[2], Matias Røyttä^[1], David Smith^[2]

- ^[1]Turku University Hospital ~ Turku ~ Finland - ^[2]Biotie Therapies Corp. ~ Turku ~ Finland

153 - INFLAMMATION MEDIATED CHANGES IN BLOOD SPINAL-CORD BARRIER (BSCB) PERMEABILITY FOLLOWING SCIATIC NERVE INJURY

Stefania Echeverry^{*[1]}, B. Y. Wu^[1], Ji Zhang^[1]

- ^[1]McGill University ~ Montreal ~ Canada

122 - MICRORNAs: KEY MODULATORS OF THE BRAIN ENDOTHELIAL INFLAMMATORY RESPONSE?

Miguel Alejandro Lopez Ramirez^{*[1]}, Camilla Cerutti^[1], Basil Sharrack^[2], Mark Hirst^[1], David Male^[1], Ignacio Andres Romero^[1]

- ^[1]The Open University ~ Milton Keynes ~ United Kingdom - ^[2]University of Sheffield ~ Sheffield ~ United Kingdom

144 - NASCENT MULTIPLE SCLEROSIS LESIONS ARE ASSOCIATED WITH EARLY DISTURBANCES IN THE BLOOD BRAIN BARRIER

Jorge Alvarez^{*[1]}, Alisha Godschalk^[1], Simone Terouz^[1], Alexandre Prat^[1]

- ^[1]University of Montreal ~ Montreal ~ Canada

21 - NETRINS REGULATE BLOOD BRAIN BARRIER FUNCTION

Cornelia Podjaski^{*[1]}, Nathalie Lebeurrier^[1], Jack P. Antel^[1], Timothy E. Kennedy^[2], Alexandre Prat^[3]

- ^[1]Neuroimmunology Unit, Montreal Neurological Institute / Department of Neurology and Neurosurgery, McGill University ~ Montreal ~ Canada - ^[2]Montreal Neurological Institute / Department of Neurology and Neurosurgery, McGill University ~ Montreal ~ Canada - ^[3]Neuroimmunology Research Laboratory, Center of Excellence in Neuromics CHUM Notre Dame Hospital ~ Montreal ~ Canada

560 - ROLE OF ANGIOTENSIN II RECEPTORS IN CONTROLLING BBB INTEGRITY AND MACROPHAGE ENTRY TO THE BRAIN

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

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

427 - TET-INDUCED EXPRESSION OF CLAUDIN-1 IN BRAIN ENDOTHELIUM REDUCES EDEMA FORMATION AND CLINICAL DISEASE IN AN ANIMAL MODEL OF MULTIPLE SCLEROSIS

Britta Engelhardt^{*[1]}, Friederike Pfeiffer^[1], Julia Schäfer^[1], Silke Tauber^[1], Urban Deutsch^[1]

- ^[1]Theodor Kocher Institute, University of Bern ~ Bern ~ Switzerland

133 - THE STUDY OF ADHESION MOLECULES VIA A NOVEL MODIFIED MIGRATION ASSAY MODELLING THE BLOOD-BRAIN BARRIER

Marc-André Lécuyer^{*[2]}, Romain Cayrol^[2], Alexandre Prat^[4]

- ^[2]Neuroimmunology Research Laboratory, Center of excellence in Neuromics, Centre Hospitalier de l'Université de Montréal, Notre-Dame Hospital, University of Montreal ~ Montreal ~ Canada - ^[4]Neuroimmunology Research Laboratory, Multiple Sclerosis clinic, Center of excellence in Neuromics, Centre Hospitalier de l'Université de Montréal, Notre-Dame Hospital, University of Montreal ~ Montreal ~ Canada



Workshop 9.....Auditorium

Neuroinflammation in neurological diseases II

Chairs: F. Aloisi and I. Illa

222 - T REGULATORY CELLS SUPPRESS MICROGLIAL ACTIVATION AND SLOW DISEASE PROGRESSION IN A MOUSE MODEL OF ALS

Stanley H. Appel^{*(1)}, Jenny Henkel⁽²⁾, David Beers⁽³⁾, Weihua Zhao⁽⁴⁾15.00
^{*(1)}Methodist Neurological Institute ~ Houston ~ United States - ⁽²⁾Methodist Neurological Institute ~ Houston ~ United States -
⁽³⁾Methodist Neurological Institute ~ Houston ~ United States - ⁽⁴⁾Methodist Neurological Institute ~ Houston ~ United States

264 - LOCAL TISSUE TRANSGLUTAMINASE ACTIVITY DIRECTS EXPERIMENTAL MULTIPLE SCLEROSIS PATHOLOGY

Anne-Marie van Dam^{*(1)}, Miriam van Strien⁽¹⁾, Elga de Vries⁽¹⁾, Jaap van Buul⁽²⁾, Lawrence Steinman⁽³⁾, Benjamin Drukarch⁽¹⁾15.15
^{*(1)}VU University Medical Center ~ Amsterdam ~ Netherlands - ⁽²⁾Sanquin Research and Landsteiner Laboratory ~ Amsterdam ~ Netherlands - ⁽³⁾Stanford University ~ Stanford ~ United States

296 - A NEW PLAYER IN NEUROINFLAMMATION ? CRMP2 IS CRITICAL FOR T LYMPHOCYTE MOTILITY AND EMERGES AS A POTENTIAL PERIPHERAL INDICATOR OF INFLAMMATION

Pascale Giraudon^{*(1)}, Michel Varrin-Doyer⁽¹⁾, Romain Marignier⁽¹⁾, Adeline Nicolle⁽¹⁾, Sylvie Cavagna⁽¹⁾, Claire Benetollo⁽²⁾15.30
^{*(1)}INSERM U842 Neurooncology - Neuroinflammation ~ Lyon ~ France - ⁽²⁾INSERM IFNL ~ Lyon ~ France

338 - INFILTRATION OF BLOOD-DERIVED MONOCYTES IS REQUIRED FOR DISEASE PROGRESS IN EXPERIMENTAL AUTOIMMUNE ENCEPHALOMYELITIS (EAE)

Bahareh Ajami^{*(1)}, Jami Bennett⁽¹⁾, Kelly McNagny⁽¹⁾, Fabio Rossi⁽¹⁾15.45
^{*(1)}University of British Columbia ~ Vancouver ~ Canada

367 - GD T CELLS ENHANCE AUTOIMMUNITY BY RESTRAINING T-REG FUNCTION VIA AN IL-23 DEPENDENT MECHANISM

Franziska Petermann^{*(3)}, Veit Rothhammer⁽³⁾, Malte C. Claussen⁽³⁾, Jan D. Haas⁽⁴⁾, Immo Prinz⁽⁴⁾, Bernhard Hemmer⁽³⁾, Vijay K. Kuchroo⁽¹⁾, Mohamed Oukka⁽²⁾, Thomas Korn⁽³⁾16.00
^{*(1)}Center for Neurologic Diseases, Brigham and Women's Hospital, Harvard Medical School ~ Boston ~ United States - ⁽²⁾Seattle Children's Hospital, Center for Immunity and Immunotherapies, University of Washington School of Medicine ~ Seattle ~ United States -
⁽³⁾Klinikum rechts der Isar, Department of Neurology, Technical University Munich ~ Munich ~ Germany - ⁽⁴⁾Hannover Medical School, Institute for Immunology ~ Hannover ~ Germany

409 - THE ANTIPROLIFERATIVE GENE TOB1 IS INVOLVED IN MS AND EAE PATHOGENESIS

Simona Casazza^{*(1-2)}, Stephen Fancy⁽³⁾, Thomas Prod'Homme⁽¹⁾, Scott Zamvil⁽¹⁾, David Rowitch⁽³⁾, Jorge Oksenberg⁽¹⁾, Sergio Baranzini⁽¹⁾16.15
^{*(1)}Department of Neurology/University California San Francisco ~ San Francisco ~ United States - ⁽²⁾Department of Neurology, University of Genoa ~ Genoa ~ Italy - ⁽³⁾Departments of Pediatrics and Neurosurgery, Eli and Edyth Broad Institute for Stem Cell Research and Regeneration Medicine, and Howard Hughes Medical Institute. ~ San Francisco ~ United States

Thursday October 28th, 2010 - Workshop 9



Thursday October 28th, 2010 - Workshop 10

Workshop 10.....Tramuntana 2

Therapies I

Chairs: S. Hauser and R. Martín

413 - CAN IL-10-MODULATED DENDRITIC CELLS SUPPRESS PATHOGENIC RESPONSES IN MULTIPLE SCLEROSIS (MS)?

Nathalie Cools*⁽¹⁾, Amber Nuyts ⁽¹⁾, Evelien Smits ⁽¹⁾, Barbara Stein ⁽²⁾, Griet Nijs ⁽²⁾, Zwi Berneman ⁽²⁾,
Viggo Van Tendeloo ⁽¹⁾15.00
⁽¹⁾University of Antwerp ~ Antwerp ~ Belgium - ⁽²⁾Antwerp University Hospital ~ Edegem ~ Belgium

426 - „ESTABLISH TOLERANCE IN MULTIPLE SCLEROSIS (ETIMS)“, AN INVESTIGATOR-INITIATED CELL THERAPY FOR EARLY MULTIPLE SCLEROSIS: PUTATIVE IN VITRO MECHANISMS OF ACTION

Sara Yousef*⁽¹⁾, Andreas Lutterotti ⁽¹⁾, Gredler Viktoria ⁽²⁾, Christian Schulze ⁽¹⁾, Andreas Sputtek ⁽³⁾,
Klarissa Stürmer⁽¹⁾, Petra Breiden⁽¹⁾, Manuela Kolster⁽¹⁾, Steven Miller⁽⁴⁾, Mireia Sospedra⁽¹⁾, Roland
Martín⁽¹⁾15.15
⁽¹⁾Institute of Neuroimmunology and Clinical MS Research (inims) ZMNH ~ Hamburg ~ Germany - ⁽²⁾Clinical Department of Neurology -
Innsbruck Medical University ~ Innsbruck ~ Austria - ⁽³⁾Institute for Transfusion Medicine, Department of Clinical Theoretical Medicine,
University Medical Center Eppendorf ~ Hamburg ~ Germany - ⁽⁴⁾Department of Microbiology-Immunology, Northwestern University
Feinberg School of Medicine ~ Chicago ~ United States

439 - CD4 DISTINGUISHES TWO SUBPOPULATIONS OF PDCA-1+ PLASMACYTOID DENDRITIC CELLS WITH DISTINCT PHENOTYPE AND FUNCTIONS

Stefanie Gaupp*⁽¹⁾, Silvia Seubert⁽¹⁾, Bernadette Jesionek⁽¹⁾, Ralf Gold⁽¹⁾15.30
⁽¹⁾Dept. of Neurology, Ruhr-University Bochum, St. Josef-Hospital ~ Bochum ~ Germany

572 - B CELL ACTIVATION INFLUENCES ANTIGEN PRESENTATION, PROINFLAMMATORY T CELL POLARIZATION AND RESPONSE TO ANTI-CD20 B CELL DEPLETION IN CNS AUTOIMMUNITY

Martin Weber*⁽¹⁾, Thomas Prod'homme⁽¹⁾, Juan Carlos Patarroyo⁽¹⁾, Nicolas Molnarfi⁽¹⁾, Tara Karnezis⁽²⁾,
Klaus Lehmann-Horn⁽³⁾, Dimitry Danilenko⁽⁴⁾, Jeffrey Eastham-Anderson⁽⁴⁾, Anthony Slavín⁽⁵⁾,
Christopher Linington⁽⁶⁾, Claude Bernard⁽²⁾, Flavius Martin⁽⁴⁾, Scott Zamvil⁽¹⁾15.45
⁽¹⁾UCSF ~ San Francisco ~ United States - ⁽²⁾Monash University ~ Melbourne ~ Australia - ⁽³⁾Technische Universität München ~ Munich
~ Germany - ⁽⁴⁾Genentech ~ South San Francisco ~ United States - ⁽⁵⁾Boehringer-Ingelheim ~ Ridgefield ~ United States - ⁽⁶⁾University of
Aberdeen ~ Aberdeen ~ United Kingdom

85 - ECULIZUMAB IN THE TREATMENT OF MULTIFOCAL MOTOR NEUROPATHY: A SINGLE CENTRE PILOT STUDY

Willison Hugh⁽¹⁾, James Overell⁽¹⁾, Cameron Mann⁽²⁾, Amanda Fitzpatrick*⁽¹⁾, Sarah Barry⁽¹⁾16.00
⁽¹⁾University of Glasgow ~ Glasgow ~ United Kingdom - ⁽²⁾Institute of Neurological Sciences, Southern General Hospital ~ Glasgow ~
United Kingdom

90 - STIMULATION OF MONOCYTOID CELLS TO FACILITATE REMYELINATION OF THE CNS

Axínia Döring*⁽¹⁾, Scott Sloka⁽¹⁾, Lorraine Lau⁽¹⁾, Serge Rivest⁽²⁾, V. Wee Yong⁽¹⁾16.15
⁽¹⁾University of Calgary ~ Calgary ~ Canada - ⁽²⁾Laval University ~ Québec ~ Canada



Workshop 11.....Tramuntana 3

Immunological mechanisms

Chairs: R. Hohlfeld and W. Yong

52 - INCLUSION BODY MYOSITIS: INTERFERON GAMMA SIGNALING IN HLA-I+ MYOFIBERS ATTACKED BY CD8+ T-CELLS

Jana Ivanidze^{*[1]}, Andrew Engel^[2], Reinhard Hohlfeld^[1], Klaus Dornmair^[1]15.00
¹Institute of Clinical Neuroimmunology, Ludwig Maximilians University ~ Munich ~ Germany - ²Neuromuscular Research Laboratory, Mayo Clinic and Foundation ~ Rochester, MN ~ United States

223 - ALTERED MIRNA EXPRESSION IN T REGULATORY CELLS IN COURSE OF MULTIPLE SCLEROSIS

Giuseppe De Santis^{*[1]}, Manuela Ferracin^[2], Andrea Biondani^[2], Luisa Caniatti^[2], Maria Rosaria Tola^[2], Massimiliano Castellazzi^[2], Barbara Zagatti^[2], Enrico Fainardi^[2], Riccardo Gavioli^[2], Massimo Negrini^[2], Roberto Furlan^[1], Enrico Granieri^[2]15.15
¹San Raffaele Scientific Institute ~ Milan ~ Italy - ²University of Ferrara ~ Ferrara ~ Italy

352 - LOSS OF IRF9 PREVENTS LETHAL LYMPHOCYTIC CHORIOMENINGITIS VIRUS INFECTION IN MICE AT THE COST OF VIRAL PERSISTENCE AND CHRONIC INFLAMMATION IN THE CNS

Markus J. Hofer^{*[2]}, Wen Li^[1], Pete Manders^[1], Iain L. Campbell^[1]15.30
¹School of Molecular Bioscience, University of Sydney ~ Sydney ~ Australia - ²School of Molecular Bioscience, University of Sydney, Australia and Dept. of Neuropathology, University of Marburg ~ Marburg ~ Germany

415 - HLA-RESTRICTED REGULATORY CD8 T CELLS ARE IMMUNOLOGICALLY ALTERED IN MULTIPLE SCLEROSIS

Kim Pannemans^[1], An Goris^[2], Benedicte Dubois^[2], Tom Broekmans^[1], Bart Van Wijmeersch^[1], Piet Stinissen^[1], Niels Hellings^{*[1]}15.45
¹Hasselt University, Biomedical Research Institute ~ Diepenbeek ~ Belgium - ²University Hospital Gasthuisberg ~ Leuven ~ Belgium

559 - POTENTIAL ROLE OF CELLULAR IMMUNITY IN NEUROMYELITIS OPTICA

Izumi Kawachi^{*[1]}, Yasuko Toyoshima^[1], Kaori Yanagawa^[1], Etsuji Saji^[1], Akiyoshi Kakita^[1], Hitoshi Takahashi^[1], Masatoyo Nishizawa^[1]16.00
¹Brain Research Institute, Niigata University ~ Niigata ~ Japan

562 - OESTRADIOL ENHANCES PERFORIN EXPRESSION ON HUMAN REGULATORY T CELLS. IMPLICATIONS FOR MULTIPLE SCLEROSIS.

Roseta Teijeiro^[1], Larissa Valor^[1], Florence Faure^[2], Clara De Andrés^[3], Marta Tejera-Alhambra^[1], Bárbara Alonso^[1], Eduardo Fernández-Cruz^[1], Silvia Sánchez-Ramón^{*[1]}16.15
¹Dept. Immunology, Hospital General Universitario Gregorio Marañón ~ Madrid ~ Spain - ²INSERM U932, Institut Curie ~ Paris ~ France - ³Dept of Neurology, Hospital General Universitario Gregorio Marañón ~ Madrid ~ Spain

Thursday October 28th, 2010 - Workshop 11



Workshop 12.....Llevant

T cells

Chairs: R. Liblau and A. Waisman

**31 - ANTIGEN RECOGNITION MOTIF OF A PATHOGENIC HUMAN
GAMMA-DELTA-T CELL RECEPTOR**

Jessica Bruder^{*[1]}, Katherina Siewert^[1], Birgit Obermeier^[1], Reinhard Hohlfeld^[1], Klaus Dornmair^[1] 15.00
^{*}^[1]Institute of Clinical Neuroimmunology, Ludwig Maximilians University ~ D-81377 Munich ~ Germany

**76 - REGULATORY T CELLS IN A SPONTANEOUS EAE MOUSE MODEL:
A FUNCTIONAL AND 2-PHOTON IMAGING STUDY**

Michail Koutrolos^{*[1]}, Ingo Bartholomaeus^[1], Naoto Kawakami^[1], Tim Sparwasser^[2], Gurumoorthy
Krishnamoorthy^[1], Hartmut Wekerle^[1]15.15
^{*}^[1]Max Planck Institute of Neurobiology ~ Martinsried ~ Germany - ^[2]Technische Universität München ~ Munich ~ Germany

**218 - TGF- β ENHANCES TH1 CELL ACTIVATION YET REDUCES EAE DISEASE COURSE
BY PROMOTING T CELL SELF-REGULATION**

David Huss^{*[1]}, Ryan Winger^[1], Haiyan Peng^[1], Yuhong Yang^[1], Michael Racke^[1], Amy Lovett-Racke^[1]
15.30
^{*}^[1]The Ohio State University ~ Columbus ~ United States

**395 - SEMA3E IS INVOLVED IN THE MIGRATION OF CD4+T CELL DURING THE
COURSE OF EXPERIMENTAL AUTOIMMUNE ENCEPHALOMYELITIS (EAE)**

Hyota Takamatsu^[1], Yuji Nakatsujii^[2], Satoshi Nojima^[1], Atsushi Kumanogoh^[1], Tatsusada Okuno^{*[1]}
15.45
^{*}^[1]Department of Immunopathology, RIMD, Osaka University ~ Suita ~ Japan - ^[2]Department of Neurology, Osaka University Graduate
School of Medicine ~ Suita ~ Japan

**508 - NAADP- MEDIATED CALCIUM SIGNALING IN EFFECTOR T CELLS REGULATES
AUTOIMMUNITY OF THE NERVOUS SYSTEM**

Francesca Odoardi^{*[1]}, Chiara Cordiglieri^[2], Bo Zhang^[3], Merle Nebe^[4], Naoto Kawakami^[5], Wolfgang
E.F. Klünkert^[5], Dimitri Lodygin^[1], Fred Lühder^[1], Barry V.L. Potter^[3], Andreas H. Guse^[4], Alexander
Flügel^[1]16.00
^{*}^[1]Institute for Multiple-Sclerosis-Research, Department Neuroimmunology, University of Göttingen ~ Göttingen ~ Germany -
^[2]Department of Neuroimmunology and Neuromuscular Disorders, Istituto Neurologico Carlo Besta ~ Mailand ~ Italy - ^[3]Wolfson
Laboratory of Medicinal Chemistry, University of Bath, Dept. of Pharmacy and Pharmacology ~ Bath ~ United Kingdom - ^[4]The Calcium
Signaling Group, University Medical Centre Hamburg-Eppendorf, Centre of Experimental Medicine, Institute of Biochemistry and
Molecular Biology I: Cellular Signal Transduction ~ Hamburg ~ Germany - ^[5]Department of Neuroimmunology, Max-Planck-Institute for
Neurobiology ~ Martinsried ~ Germany

**573 - IN VIVO IMAGING OF LYMPHOCYTES IN THE CNS REVEALS DIFFERENT
BEHAVIOUR OF NAIVE T CELLS IN HEALTH AND AUTOIMMUNITY**

Josephine Herz^[1], Raluca Niesner^[1], Robert Glumm^[1], Alexander Brandt^[1], Volker Siffrin^[2], Tina
Leuenberger^[1], Magdalena Paterka^[1], Frauke Zipp^[2], Helena Radbruch^{*[1]}16.15
^{*}^[1]Molecular Neurology, Max Delbrueck Center for Molecular Medicine ~ 13125 Berlin ~ Germany - ^[2]Department of Neurology,
University Medicine Mainz, Johannes Gutenberg University ~ Mainz ~ Germany



Workshop 13.....Mestral

Mechanisms of nervous system damage

Chairs: M. J. Carson and E. de Vries

228 - ASIC1 CONTRIBUTES TO DEMYELINATION AND AXONAL INJURY IN MULTIPLE SCLEROSIS AND ITS ANIMAL MODEL

Sandra Vergo^{*[1]}, Matthew J Craner^[1], Manuel A Friese^[2], Margaret Esiri^[1], Jia Newcombe^[3], Angela Vincent^[1], Lars Fugger^[1]15.00
^[1]University of Oxford ~ Oxford ~ United Kingdom - ^[2]University Medical Centre Hamburg-Eppendorf ~ Hamburg ~ Germany - ^[3]UCL Institute of Neurology ~ London ~ United Kingdom

308 - IN VIVO IMAGING OF PARTIALLY REVERSIBLE TH17-INDUCED NEURONAL DYSFUNCTION IN THE COURSE OF ENCEPHALOMYELITIS

Volker Siffrin^{*[1]}, Helena Radbruch^[2], Robert Glumm^[2], Raluca Niesner^[2], Seija Lehnardt^[3], Herz Josephine^[2], Tina Leuenberger^[2], Magdalena Paterka^[2], Sabrina Lehmann^[3], Jan Leo Rinnenthal^[2], Gregor Laube^[3], Hervé Luche^[4], Hans-Jörg Fehling^[4], Oliver Griesbeck^[5], Frauke Zipp^[1]15.15
^[1]Neurology Department, University Medicine Mainz ~ Mainz ~ Germany - ^[2]Max Delbrück Center for Molecular Medicine ~ Berlin-Buch ~ Germany - ^[3]Charité - University Medicine Berlin ~ Berlin ~ Germany - ^[4]University of Ulm ~ Ulm ~ Germany - ^[5]Max Planck Institute of Neurobiology ~ Martinsried ~ Germany

377 - OLIGODENDROCYTES ARE DAMAGED BY NEUROMYELITIS OPTICA IGG VIA ASTROCYTE INJURY

Romain Marignier^{*[1]}, Adeline Nicolle^[1], Chantal Watrin^[1], Monique Touret^[1], Sylvie Cavagna^[1], Michel Varrin-Doyer^[1], Christian Confavreux^[2], Jérôme Honnorat^[1], Pascale Giraudon^[1]15.30
^[1]Department of Neurooncology and Neuroinflammation, INSERM U 842 ~ Lyon ~ France - ^[2]Service de Neurologie A, EDMUS Coordinating Centre, Hôpital neurologique, Hospices Civils de Lyon ~ Lyon ~ France

576 - THE C-C CHEMOKINE RECEPTOR CCR4 HAS AN ESSENTIAL ROLE IN THE DEVELOPMENT OF AUTOIMMUNE ENCEPHALOMYELITIS AND ITS EXPRESSION IS REQUIRED ON DENDRITIC CELLS, NOT ON T CELLS

Karola Poppensieker^[1], David M. Otte^[1], Andreas Limmer^[2], Philipp Dresing^[3], Britta Schürmann^[1], Luisa Klotz^[2], Alexander Mildner^[4], Ari Waisman^[5], Stefanie Scheu^[3], Percy Knolle^[2], Irmgard Förster^[6], Marco Prinz^[4], Wolfgang Maier^[7], Andreas Zimmer^[1], Judith Alferink^{*[1]}15.45
^[1]Institute of Molecular Psychiatry, University of Bonn ~ Bonn ~ Germany - ^[2]Institutes of Molecular Medicine and Experimental Immunology, University of Bonn ~ Bonn ~ Germany - ^[3]Institute of Medical Microbiology and Hospital Hygiene, University of Düsseldorf ~ Düsseldorf ~ Germany - ^[4]Institute of Neuropathology, University of Freiburg, Freiburg, Germany ~ Freiburg ~ Germany - ^[5]Institute for Molecular Medicine, University Medical Center of the Johannes Gutenberg University Mainz ~ Mainz ~ Germany - ^[6]Molecular Immunology, Institut für Umweltmedizinische Forschung gGmbH, Heinrich-Heine University, Düsseldorf ~ Düsseldorf ~ Germany - ^[7]Department of Psychiatry, University Hospital Bonn ~ Bonn ~ Germany

589 - INTERLEUKIN-1 INFLUENCE MICROGLIA/MACROPHAGE ACTIVATION AFTER SPINAL CORD INJURY IN MICE

Atsushi Sato^{*[1]}, Kenji Ohara^[1], Hirokazu Ohtaki^[1], Takashi Atsumi^[2], Seiji Shioda^[1]16.00
^[1]Department of Anatomy, Showa University School of Medicine, Tokyo, Japan - ^[2]Department of Orthopedic Surgery, Showa University Fujigaoka Hospital, Kanagawa, Japan

Workshop 14.....Mestral

Brain blood barrier

Chairs: M. J. Carson and E. de Vries

149 - THE HEDGEHOG PATHWAY SUSTAINS BLOOD-BRAIN BARRIER PROPERTIES AND PROMOTES CNS IMMUNE QUIESCENCE

Jorge Alvarez^{*[1]}, Aurore Dodelet-Devillers^[1], Hania Kebir^[1], Igal Ifergan^[1], Mike Sabbagh^[1], Karolina Wosik^[1], Lyne Bourbonnière^[1], Monique Bernard^[1], Helga de Vries^[2], Jack van Horssen^[2], Pierre Fabre^[3], Frédéric Charron^[3], Alexandre Prat^[1]16.15
^[1]University of Montreal ~ Montreal ~ Canada - ^[2]VU medical center ~ Amsterdam ~ Netherlands - ^[3]Institut de Recherches Cliniques de Montréal (IRCM) ~ Montreal ~ Canada

TEA BREAK16.30 – 17.00

Training 3Tramuntana 2

Work and training opportunity in Neuroimmunology

A. Bar-Or, McGill University, Montreal, Canada.....17.00 – 18.00

Thursday October 28th, 2010 - Workshop 13-14 - Training 3



Friday October 29th, 2010

Friday October 29th, 2010 - Concurrent Symposia 7-8

Concurrent Symposia 7.....Auditorium

Neuroinflammation in neurological diseases

Chair: V. H. Perry

611 – CONSEQUENCES OF SWITCHING MICROGLIA PHENOTYPE IN CHRONIC NEURODEGENERATION

V. Hugh Perry08.30

University of Southampton ~ Southampton ~ United Kingdom

622 - CEREBRAL AMYLOIDOSIS AND THE ROLE OF MICROGLIA

Mathias Jucker09.00

Department of Cellular Neurology, Hertie-Institute for Clinical Brain Research, University of Tübingen, and German Center for Neurodegenerative Diseases ~ Tuebingen ~ Germany

610 - A POSSIBLE ROLE FOR THE SYSTEMIC ENVIRONMENT IN MODULATING BRAIN AGING AND NEURODEGENERATION

Tony Wyss-Coray09.30

Stanford University ~ Stanford ~ United States

Concurrent Symposia 8Tramuntana 2

In vivo imaging for Neuroimmunology

Chair: M. Kerschensteiner

IN VIVO IMAGING THE INDUCTION OF NEUROINFLAMMATORY LESIONS

Alexander Flügel08.30

Institute of Clinical Neuroimmunology ~ Munich ~ Germany

608 - IN VIVO IMAGING TISSUE DAMAGE IN NEUROINFLAMMATION

Martin Kerschensteiner09.00

Institute of Clinical Neuroimmunology ~ Munich ~ Germany

649 - IN VIVO IMAGING NEURONAL RECOVERY IN NEUROINFLAMMATION

Wanbiao Gan09.30

New York University School of Medicine ~ New York ~ United States



Concurrent Symposia 9Tramuntana 3

Biomarker discovery

Chair: R. Martin

646 - AUTOANTIBODIES IN NEUROLOGY: RECENT ADVANCES AND CLINICAL IMPACT

K. Wandinger08.30
University of Hamburg ~ Hamburg ~ Germany

626 - RESPONSE TO INTERFERON-BETA TREATMENT IN MULTIPLE SCLEROSIS: PHARMACOGENOMIC STUDIES

Manuel Comabella09.00
Centre d'Esclerosi Múltiple de Catalunya, CEM-Cat, Unitat de Neuroimmunologia Clínica, Hospital Universitari Vall d'Hebron ~ Barcelona ~ Spain

656 - PROTEOMICS OF MS, COMPARISON WITH TRANSCRIPTOMICS AND CONTRIBUTIONS TO SYSTEMS BIOLOGY OF AUTOIMMUNE DEMYELINATING DISEASES

May H. Han09.30
Stanford University, CA, USA

COFFEE BREAK.....10.00 – 10.30

PLENARY

Lecture 3.....Auditorium

The Immunology Lecture:10.30

674 – CONVERSATIONS BETWEEN TISSUES AND T CELLS
Polly Matzinger, NIH, USA

Plenary Symposium 3.....Auditorium

Modulating the immune response into the brain

Chairs: C. Whitacre and M. Carson

633 – CNS-IMMUNE SYSTEM INTERACTIONS: A DANCE THAT CHANGES WITH DEVELOPMENT, AGE AND EXPERIENCE

Carson Monica11.30
University of California Riverside ~ Riverside ~ United States

655 - Immune surveillance of the CNS: New concepts, new targets

Richard M. Ransohoff12.10
Cleveland Clinic, OH, USA

672 - CNS-Immune interactions: External influences as therapeutic interventions

Caroline Whitacre12.50
The Ohio State University, Columbus, OH, USA

LUNCH & POSTERS13.30 – 15.00

Friday October 29th, 2010 - Concurrent Symposia 9



Poster Session 15Poster Hall.....13.30 – 15.00
Neuroinflammation in neurological diseases III

424 - 2D IMMUNOMIC APPROACH FOR THE STUDY OF IGG AUTOANTIBODIES IN THE EXPERIMENTAL MODEL OF MULTIPLE SCLEROSIS

Alessia Farinazzo^{*[1]}, Beatrice Gini^[1], Alberto Milli^[2], Francesca Ruffini^[3], Silvia Marconi^[1], Ermanna Turano^[1], Elena Anghileri^[1], Francesca Barbieri^[1], Daniela Cecconi^[2], Roberto Furlan^[3], Bruno Bonetti^[1]

- ^[1]Department of Neurological Sciences and Vision, University of Verona, Italy ~ Verona ~ Italy - ^[2]Department of Biotechnology, University of Verona, Italy ~ Verona ~ Italy - ^[3]Neuroscience, DIBIT, San Raffaele Hospital, Milan, Italy ~ Milano ~ Italy

394 - ACUTE DISSEMINATED ENCEPHALOMYELITIS IN CHILDREN

Slavica Ostojic^{*[1]}, Gordana Vlahovic^[1], Dragan Zamurovic^[1], Milena Djuric^[1]

- ^[1]Institute for Mother and Child Health Protection ~ Belgrade ~ Serbia

387 - ANALYSIS OF MS SUSCEPTIBILITY IN AFRICAN AMERICANS. BEYOND REPLICATION.

Britt Johnson^{*[1]}, Pierre-Antoine Gourraud^[1], Jorge Oksenberg^[1]

- ^[1]University of California San Francisco ~ San Francisco ~ United States

614 - ASTROCYTE-SPECIFIC IKK2 ACTIVATION INDUCES NEUROINFLAMMATION AND RESULTS IN HYDROCEPHALUS DEVELOPMENT

Michael Lattke^{*[1]}, Alexander Magnutzki^[1], Thomas Wirth^[1], Bernd Baumann^[1]

- ^[1]Institute of Physiological Chemistry, Ulm University, Ulm, Germany

435 - CX3CR1 EXPRESSING NK CELLS DURING NEUROINFLAMMATION

Isabell Hamann^{*[2]}, Astrid Cardona^[3], Jason Millward^[2], Richard Ransohoff^[1], Carmen Infante-Duarte^[2]

- ^[1]Lerner Research Institute, Cleveland Clinic ~ Cleveland ~ United States - ^[2]Charité - University Medicine Berlin ~ Berlin ~ Germany - ^[3]The University of Texas at San Antonio ~ San Antonio ~ United States

602 - GLIAL INNATE IMMUNITY GENERATED BY NON-AGGREGATED ALPHA-SYNUCLEIN: DIFFERENCES BETWEEN WILD-TYPE AND PARKINSON'S DISEASE-LINKED MUTANTS

Cintia Roodveldt^{*[1]}, Adahir Labrador-Garrido^[1], Elena Gonzalez-Rey^[2], Rafael Fernandez-Montesinos^[1], Marta Caro^[2], Christian C. Lachaud^[1], Christopher Waudby^[3], Mario Delgado^[2], Christopher M. Dobson^[3], David Pozo^[1]

- ^[1]CABIMER-Andalusian Center for Molecular Biology and Regenerative Medicine (CSIC-University of Seville-UPO-Junta de Andalucía), Seville, Spain - ^[2]Institute of Parasitology and Biomedicine Lopez-Nyera (CSIC), Granada, Spain - ^[3]Department of Chemistry, University of Cambridge, UK

595 - NEUROFILAMENT LIGHT AS A TARGET FOR AUTOIMMUNITY IN MULTIPLE SCLEROSIS

Baukje van der Star^{*[1]}, Wouter Gerritsen^[1], Kristel Arends^[1], Tesev Dimitar^[1], Ruth Huizinga^[2], Paul van der Valk^[1]

- ^[1]Pathology Department VU medical center ~ Amsterdam ~ Netherlands - ^[2]Erasmus University medical center ~ Rotterdam ~ Netherlands

596 - TCR AB+ CELLS REGULATE INNATE IMMUNITY AND TISSUE INJURY DURING CENTRAL NERVOUS SYSTEM BACTERIAL INFECTION

Monica Mariani^[1], Tammy Kielian^{*[1]}

- ^[1]Dept. Pathology and Microbiology, University of Nebraska Medical Center, Omaha, USA



403 - THE NEUROTROPHIN RECEPTOR P75NTR REGULATES HUMAN SKELETAL MUSCLE DIFFERENTIATION, MATURATION AND SURVIVAL UPON INFLAMMATORY STRESS

Emanuela Colombo^{*[1]}, Stefania Romaggi^[1], Enzo Medico^[2], Ramesh Menon^[1], Flavia Blasevich^[1], Marina Mora^[1], Chiara Falcone^[1], Hanns Lochmüller^[3], Paolo Confalonieri^[1], Renato Mantegazza^[1], Lucia Morandi^[1], Cinthia Farina^[1]

- ^[1]Foundation IRCCS Neurological Institute Carlo Besta ~ Milan ~ Italy - ^[2]Institute for Cancer Research and Treatment (IRCC), University of Turin Medical School ~ Candiolo ~ Italy - ^[3]NorthEast England Stem Cell Institute and Institute of Human Genetics, Newcastle University ~ Newcastle upon Tyne ~ United Kingdom

552 - MOLECULAR MECHANISMS OF NSAIDS AND DERIVED COMPOUNDS IN MODELS OF ALZHEIMER'S DISEASE

Christiane Kummer^{*[1]}, Angelika Griep^[1], Michael Heneka^[1]

- ^[1]University of Bonn ~ Bonn ~ Germany

525 - ACUTE DISSEMINATED ENCEPHALOMYELITIS (ADEM) – FUNCTIONAL OUTCOME PREDICTORS

Ik Lin Tan^{*[1]}, Justin C McArthur^[1], Arun Venkatesan^[1], Avindra Nath^[1]

- ^[1]Johns Hopkins School of Medicine ~ Baltimore ~ United States

407 - AMYLOID PRECURSOR PROTEIN MODULATES EAE THROUGH ITS EFFECTS ON NEUROINFLAMMATION

Jacqueline L. Grant^{*[2]}, Roopa Bhat^[2], Lawrence Steinman^[2]

- ^[2]Stanford University ~ Stanford ~ United States

420 - AUTOIMMUNITY TO AXONAL PROTEINS IN MULTIPLE SCLEROSIS

Fabiola Puentes^{*[1]}, Sandra Amor^[2]

- ^[1]Centre of Neuroscience and Trauma ~ London ~ United Kingdom - ^[2]VU Medical Center ~ Amsterdam ~ Netherlands

554 - BLOOD BRAIN BARRIER (BBB) DISRUPTION IS ASSOCIATED WITH DISEASE SEVERITY, INTRATHECAL IMMUNOGLOBULIN, AND PLEOCYTOSIS IN PATIENTS WITH NMO.

Kyung Seok Park^{*[1]}, Sung-Min Kim^[1], Su Hyun Kim^[1]

- ^[1]Seoul National University, College of Medicine ~ Seoul ~ Korea South

504 - COMPLEMENT ACTIVATION BY AUTOANTIBODIES BINDING TO NMDAR CLUSTER IN NMDAR-ANTIBODY ENCEPHALITIS

Katarzyna D Bera^{*[1]}, Patrick Waters^[1], Sarosh Irani^[1], Leslie Jacobson^[1], Hayley Spearman^[1], David Beeson^[1], Angela Vincent^[1]

- ^[1]University of Oxford ~ Oxford ~ United Kingdom

534 - ESCIN ATTENUATES CEREBRAL ISCHEMIA-REPERFUSION INJURY IN DIABETIC RATS

Pengfei Yu^{*[1]}, Tian Wang^[1], Leiming Zhang^[1], Fenghua Fu^[1]

- ^[1]Department of Pharmacology, School of Pharmacy, Yantai University, 32#, Qingquan Road, Yantai 264005, P.R. China ~ Yantai ~ China

396 - FRACTALKINE AND CX3CR1 REGULATE HIPPOCAMPAL SYNAPTIC PLASTICITY AND COGNITIVE FUNCTION

Josh Morganti^{*[1]}, Justin Rogers^[1], Adam Bachstetter^[2], Mindy Peters^[1], Edwin Weeber^[1], Paula Bickford^[1], Carmelina Gemma^[1]

- ^[1]University of South Florida ~ Tampa ~ United States - ^[2]Northwestern University Feinberg School of Medicine ~ Chicago ~ United States



460 - GENETIC DISSECTION OF MHC CLASS II UPREGULATION AFTER TRAUMATIC BRAIN INJURY USING CONGENIC STRAINS.

Faiez Al Nimer^{*[1]}, Olle Lidman^[1], Rickard Lindblom^[1], Fredrik Piehl^[1]

- ^[1]Karolinska Institute ~ Stockholm ~ Sweden

372 - HUMAN GROWTH HORMONE (GH) REGULATES NEURAL CELL ADHESION MOLECULE (NCAM) AND PREVENTS GP 120 III BETA-INDUCED DENDRITIC RETRACTION IN CORTICAL NEURONS

Jose Joaquín Merino^{*[2]}, María Teresa Vallejo-Cremades^[3], Blanco Almudena^[4], Montes María Luisa^[5], Antonio Cuadrado^[6], Victor Caz^[7], Susana Álvarez^[4], Enrique De Miguel^[7], María Ángeles Muñoz Fernández^[4]

- ^[2]IdiPAZ. Hospital Universitario "La Paz" (Madrid) ~ Paseo de la Castellana 261 ~ Spain - ^[3]Idi Paz. HULP. Unidad de Investigación ~ Madrid ~ Spain - ^[4]ImmunoMolecular Biology Lab. Hospital General Universitario "Gregorio Marañón". HGUGM. ~ Madrid ~ Spain - ^[5]HIV Research Unit. HULP. Hospital Universitario "La Paz" ~ Madrid ~ Spain - ^[6]Universidad Autonoma de Madrid (UAM, IdiPaz) ~ Madrid ~ Spain - ^[7]Experimental Surgery Dept. HULP. Idi Paz. ~ Madrid ~ Spain

587 - IL-25 PLAYS A NEUROPROTECTIVE ROLE ON T CELL MEDIATED NEUROTOXICITY

Diane Turner^[1], Robyn Kinsey^[1], Dion Pasichnyk^[1], Fabrizio Giuliani^{*[1]}

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

561 - MICROGLIAL ACTIVATION AND A β PLAQUE LOAD IN APPSWE/PS1 Δ E9 TRANSGENIC MICE TREATED WITH THE SELECTIVE SEROTONIN REUPTAKE INHIBITOR (SSRI) PARIQUETINE

Maurizio Severino^{*[1]}, Asif K. Manzoor^[1], Jørgen B. Hasselstrøm^[2], Bente Finsen^[1]

- ^[1]Neurobiology Research, Institute of Medical Research, University of Southern Denmark ~ Odense ~ Denmark - ^[2]Centre for Psychiatric Research, Aarhus University Hospital ~ Aarhus ~ Denmark

437 - NON-PSYCHOACTIVE CANNABINOIDS ATTENUATE MCP-1 EXPRESSION IN AN EXPERIMENTAL MODEL OF MULTIPLE SCLEROSIS

Paula Iñigo^{*[1]}, Leyre Mestre^[2], Miriam Mecha^[1], Miriam Hernangomez^[1], Katie Goble^[1], Carmen Guaza^[1]

- ^[1]Instituto Cajal ~ Madrid ~ Spain - ^[2]Instituto Cajal ~ Madrid ~ Spain

592 - NOVEL MECHANISM FOR HERPES SIMPLEX VIRUS TYPE-1 ENTRY IDENTIFIED BY POSITIONAL CLONING

Margarita Diez^{*[2]}, Biborka Bereczky-Veress^[1], Nada Abdelmagid^[1], Tomas Bergström^[3], Birgitt Sköldenberg^[1], Fredrik Piehl^[1], Tomas Olsson^[1]

- ^[1]Karolinska Institutet ~ Stockholm ~ Sweden - ^[2]Karolinska Institutet ~ Stockholm ~ Sweden - ^[3]Göteborg University ~ Göteborg ~ Sweden

411 - SPACIO-TEMPORAL DISTRIBUTION OF CD200R AND ITS LIGAND CD200 IN THE ADULT AND DEVELOPING C57/BL6 MICE BRAIN.

Kalpana Shrivastava^{*[1]}, Pau Gonzalez^[1], Laia Acarin^[1]

- ^[1]Medical Histology, Neuroscience Institute, Universitat Autònoma de Barcelona ~ Bellaterra, Barcelona ~ Spain

488 - STUDY OF MECHANISMS OF MYELIN PHAGOCYTOSIS IN MULTIPLE SCLEROSIS

Debbie Hendrickx^{*[1]}, Jeroen Melief^[1], Corbert Van Eden^[1], Jorg Hamann^[2], Robert Hoek^[1], Inge Huitinga^[1]

- ^[1]Netherlands institute for neuroscience ~ Amsterdam ~ Netherlands - ^[2]Academic Medical Centre ~ Amsterdam ~ Netherlands

390 - THE EVALUATION OF MULTIPLE SCLEROSIS PATIENTS WITH TUMEFACTIVE BRAIN LESION

Ayşe Altıntaş^{*[1]}, Mustafa Emir Tavsanlı^[1], Feray Bolukbaşı^[1], Sabahattin Saip^[1], Aksel Siva^[1]

- ^[1]Cerrahpaşa Medical School ~ Istanbul ~ Turkey



452 - THE FUNCTIONAL ROLE OF ADAMTSS IN THE PATHOGENESIS OF MULTIPLE SCLEROSIS

Gehan Gíbreel^{*[1]}, Alison Cross^[1], Gail Haddock^[1], David Buttle^[2], Rowena Bunning^[1]

- ^[1]Sheffield Hallam University ~ Sheffield ~ United Kingdom - ^[2]The University of Sheffield ~ Sheffield ~ United Kingdom

433 - THE ROLE OF JUNCTIONAL ADHESION MOLECULE-A (JAM-A) IN THE IMMUNOPATHOGENESIS OF EXPERIMENTAL AUTOIMMUNE ENCEPHALOMYELITIS (EAE)

Júlia Schaefer^{*[3]}, Remy Boscacci^[1], Elisabetta Dejana^[2], Urban Deutsch^[1], Britta Engelhardt^[1]

- ^[1]University of Bern ~ Bern ~ Switzerland - ^[2]IFOM-IEO Campus ~ Milan ~ Italy - ^[3]University of Bern ~ Bern ~ Switzerland

579 - THE ROLE OF PD-1/PD-L PATHWAY IN THE DEVELOPMENT OF THEILER'S MURINE ENCEPHALOMYELITIS VIRUS - INDUCED DMYELINATING DISEASE

Sho Takizawa^[1], Tomoaki Kaneyama^[1], Naoya Takeichi^[1], Satoshi Yanagisawa^[1], Hideo Yagita^[7], Byung S. Kim^[2], Chang-Sung Koh^{*[1]}

- ^[1]Shinshu University School of Health Sciences ~ Matsumoto ~ Japan - ^[2]Northwestern University Feinberg School of Medicine ~ Chicago ~ United States - ^[7]Juntendo University School of Medicine ~ Tokyo ~ Japan

438 - THERAPEUTIC ACTION OF CANNABIDIOL IN A MURINE MODEL OF MULTIPLE SCLEROSIS: PROTECTIVE EFFECTS ON OLIGODENDROCYTE PROGENITOR CULTURES

Miriam Mecha^{*[1]}, Paula Iñigo^[2], Leyre Mestre^[3], Miriam Hernangomez^[4], Katie Goble^[5], Carmen Guaza^[1]

- ^[1]Cajal Institute ~ Madrid ~ Spain - ^[2]Cajal Institute ~ Madrid ~ Spain - ^[3]Cajal Institute ~ Madrid ~ Spain - ^[4]Cajal Institute ~ Madrid ~ Spain - ^[5]Cajal Institute ~ Madrid ~ Spain

567 - VAV1 IS INVOLVED IN THE SUSCEPTIBILITY TO EAE AND MS BY INFLUENCING EFFECTOR AND REGULATORY T CELL FUNCTION AND DEVELOPMENT.

Céline Colacios^{*[1]}, Maja Jagodic^[2], Rita Nohra^[2], Anne Dejean^[1], Audrey Casemayou^[1], Lucille Lamouroux^[1], Isabelle Bernard^[1], Dominique Lagrange^[1], Ingrid Kockum^[2], Tomas Olsson^[2], Gilbert Fournié^[1], Abdelhadi Saoudi^[1]

- ^[1]INSERM ~ Toulouse ~ France - ^[2]Karolinska Institute ~ Stockholm ~ Sweden

583 - VIRAL PERSISTENCE – ASSOCIATED MUTATIONS IN A SURFACE PROTEIN OF A HUMAN CORONAVIRUS MODULATE DISEASE IN MICE FROM ENCEPHALITIS TO FLACCID PARALYSIS AND INFLAMMATORY DEMYELINATION

Pierre J. Talbot^{*[1]}, Julien R. St-Jean^[1], Elodie Brison^[1], Gabriel Marceau^[1], Marc Desforges^[1], Helene Jacomy^[1]

- ^[1]INRS-Institut Armand-Frappier ~ Laval ~ Canada



Poster Session 16.....Poster Hall13.30 – 15.00
B cells and antibodies

4 - A SENSITIVE NON-ISOTOPIC ASSAY FOR AQUAPORIN-4 AUTOANTIBODIES

Jakub Fichna^[1], Shu Chen^{*[1]}, Ian Matthews^[1], Rachel Hewer^[1], Maria del Pilar Larosa^[1], Laura Holmes^[1], Stuart Baker^[1], Michael Powell^[1], Jadwiga Furmaniak^[1], Bernard Rees Smith^[1]

- ^[1]FIRS Laboratories, RSR Ltd ~ Cardiff ~ United Kingdom

176 - A SUBSET OF PATIENTS WITH MULTIPLE SCLEROSIS DEVELOP A PATHOGENIC AUTOANTIBODY RESPONSE TO NEUROFASCIN.

Christina Elliott^{*[1]}, Ariel Arthur^[1], Tobias Derfuss^[2], Kathryn Brennan^[1], Edgar Meinl^[2], Thomas Olsson^[3], Sven Jarius^[4], Sue Barnett^[1], Christopher Linington^[1]

- ^[1]University of Glasgow ~ Glasgow ~ United Kingdom - ^[2]Max-Planck Institute of Neurobiology ~ Munich ~ Germany - ^[3]Karolinska Institute ~ Stockholm ~ Sweden - ^[4]University of Heidelberg ~ Heidelberg ~ Germany

505 - ACETYLCHOLINE RECEPTOR AND MUSK ANTIBODIES IN MOTHERS OF BABIES WITH ARTHROGRYPOSIS

Leslie Jacobson^{*[1]}, Maria Isabel Leite^{*[1]}, Angela Vincent^{*[1]}

- ^[1]University of Oxford ~ Oxford ~ United Kingdom

515 - ANTIBODIES PRODUCED BY PLASMA CELLS IN MULTIPLE SCLEROSIS CSF: BINDING TO GLIAL CELL ANTIGENS.

Gregory Owens^{*[1]}, Anna Sargysan^[1], Mark Burgoon^[1], Donald Gilden^[1], Jeffrey Bennett^{*[1]}

- ^[1]University of Colorado School of Medicine ~ Aurora ~ United States

373 - ANTIBODIES TO THE VOLTAGE-GATED POTASSIUM CHANNEL - ASSOCIATED COMPLEX: LGI1 AND CASPR2 AS ANTIGENIC TARGETS IN CENTRAL AND PERIPHERAL NERVOUS SYSTEM IMMUNOTHERAPY-RESPONSIVE DISEASES

Sarosh R Irani^[1], Patrick Waters^[1], Philippa Pettingill^[1], Luigi Zuliani^[1], Camilla Buckley^[1], Bethan Lang^[1], Angela Vincent^[1]

- ^[1]University of Oxford ~ Oxford ~ United Kingdom

310 - ANTIBODY INTERNALIZATION DESENSITISES THE PERIPHERAL NERVE SYSTEM MEMBRANE FROM COMPLEMENT MEDIATED INJURY

Simon Ngamli Fewou^[1], Angelika Frances Rupp^[1], Lauren Emma Nickolay^[1], Kathryn Carrick^[1], Hugh J. Willison^[1]

- ^[1]University of Glasgow ~ Glasgow ~ United Kingdom

156 - AUTOIMMUNE MYASTHENIA GRAVIS: CELL-SURFACE EXPRESSION OF B-CELL ACTIVATING FACTOR (BAFF) RECEPTORS ON B-CELLS

Samia Ragheb^{*[1]}, Yanfeng Li^[1], Kirk Simon^[1], Richard Lewis^[1], Robert Lisak^[1], Gregory VanStavern^[1]

- ^[1]Wayne State University ~ Detroit ~ United States

258 - B CELL IMMUNE MODULATION IN GLATIRAMER ACETATE TREATMENT OF CNS AUTOIMMUNE DISEASE

Deetje Hertenberg^[1], Martina Betz^[1], Klaus Lehmann-Horn^[1], Scott Zamvil^[2], Patrice Lalive^[3], Bernhard Hemmer^[1], Martin Weber^{*[1]}

- ^[1]Technische Universitaet Muenchen ~ Munich ~ Germany - ^[2]University of California, San Francisco ~ San Francisco ~ United States - ^[3]University of Geneva ~ Geneva ~ Switzerland



468 - B CELL NETWORK IN MS CNS THROUGH THE MENINGES, PLAQUES, NAWM AND CSF

Laura Lovato^{*[1]}, Simon Willis^[1], Scott Rodig^[1], Owain Howell^[2], Richard Reynolds^[2], Kevin O'Connor^[3], David Hafler^[3]

- ^[1]Harvard Medical School ~ Boston ~ United States - ^[2]Imperial College ~ London ~ United Kingdom - ^[3]Yale School of Medicine ~ New Haven ~ United States

93 - CIRCULATING IMMUNE COMPLEXES IN PATIENTS TREATED FOR MULTIPLE SCLEROSIS

Gerardo Iuliano^{*[1]}, Luigi Cinquanta^[1], Rosa Napoletano^[1], Annamaria Ferruzzi^[1]

- ^[1]A.O.U. Ospedali Riuniti di Salerno ~ Salerno ~ Italy

471 - CYTOKINE AND COSTIMULATORY MOLECULE EXPRESSION IN MYASTHENIA GRAVIS

Vuslat Yilmaz^{*[1]}, Haner Direskeneli^[2], Fikret Aysal^[3], Yesim Parman^[4], Piraye Oflazer^[5], Feza Deymeer^[6], Guher Saruhan-Direskeneli^[7]

- ^[1]Istanbul Medical Faculty ~ Istanbul ~ Turkey - ^[2]Marmara University, Faculty of Medicine ~ Istanbul ~ Turkey - ^[3]Bakirkoy Research and Training Hospital for Psychiatric and Neurological Diseases ~ Istanbul ~ Turkey - ^[4]Istanbul Medical Faculty ~ Istanbul ~ Turkey - ^[5]Istanbul Medical Faculty ~ Istanbul ~ Turkey - ^[6]Istanbul Medical Faculty ~ Istanbul ~ Turkey - ^[7]Istanbul Medical Faculty ~ Istanbul ~ Turkey

463 - EPILEPSY - AN AUTOIMMUNE DISEASE?

Tanja Brenner^[2], Yvonne Hart^[2], Stephen J Howell^[3], Graeme J Silles^[4], Martin J Brodie^[4], Angela Vincent^[2], Bethan Lang^{*[2]}

- ^[2]Department of Clinical Neurology, University of Oxford ~ Oxford ~ United Kingdom - ^[3]Department of Neurology, Royal Hallamshire Hospital ~ Sheffield ~ United Kingdom - ^[4]Epilepsy Unit, Western Infirmary ~ Glasgow ~ United Kingdom

489 - FURTHER CHARACTERIZATION OF THE B-CELL PHENOTYPE IN ECTOPIC FOLLICLE-LIKE STRUCTURES IN THE MULTIPLE SCLEROSIS BRAIN

Roberta Magliozzi^{*[1]}, Barbara Serafini^[1], Barbara Rosicarelli^[1], Rychard Reynolds^[2], Francesca Aloisi^[1]

- ^[1]Istituto Superiore di Sanità ~ Rome ~ Italy - ^[2]Imperial College ~ London ~ United Kingdom

482 - GENETIC REGULATION OF ANTI-MOG ANTIBODIES IN RAT EXPERIMENTAL AUTOIMMUNE ENCEPHALOMYELITIS

Sevasti Flytzani^{*[1]}, Melanie Thessen Hedreul^[1], Pernilla Stridh^[1], Johan Öckinger^[1], Amennai Beyeen^[1], Alan Gillett^[1], Andre Ortlieb^[1], Maja Jagodic^[1], Tomas Olsson^[1]

- ^[1]Karolinska Institute ~ Stockholm ~ Sweden

522 - GLYCINE RECEPTOR ANTIBODIES IN PROGRESSIVE ENCEPHALOMYELITIS WITH RIGIDITY AND MYCLONUS, HYPEREKPLEXIA, STIFF PERSON SYNDROME AND OTHER NEUROLOGICAL CONDITIONS

M Isabel Leite^{*[1]}, Patrick Waters^[1], Cord-Michael Becker^[2], Christian Jacobi^[3], Benjamin McNeillis^[1], Hans-Michael Meinck^[3], Angela Vincent^[1]

- ^[1]Oxford University ~ Oxford ~ United Kingdom - ^[2]Erlanger University ~ Erlangen ~ Germany - ^[3]Heidelberg University ~ Heidelberg ~ Germany

360 - IDENTIFICATION OF NOVEL POTENTIAL ANTIBODY BIOMARKERS IN EARLY MULTIPLE SCLEROSIS

Myrthe Rouwette^{*[1]}, Klaartje Somers^[1], Cindy Govarts^[1], Raymond Hupperts^[2], Bart van Wijmeersch^[1], Cees Zwanikken^[3], Marcel Verbeek^[4], Piet Stinissen^[1], Veerle Somers^[1]

- ^[1]BIOMED, Hasselt University ~ Diepenbeek ~ Belgium - ^[2]Maastricht University ~ Maastricht ~ Netherlands - ^[3]MS center Nijmegen ~ Nijmegen ~ Netherlands - ^[4]Radboud University Nijmegen ~ Nijmegen ~ Netherlands



521 - IDENTIFICATION OF PEPTIDE TARGETS IN NEUROMYELITIS OPTICA

Xiaoli Yu^{*[1]}, Miyoko Green^[1], Chiwah Lam^[1], Katherine Bautista^[1], Donald Gilden^[1], Jeffrey L. Bennett^[1]

- ^[1]University of Colorado Denver ~ Aurora ~ United States

376 - IMMORTALIZED B CELL LINES FROM MULTIPLE SCLEROSIS PATIENTS PRODUCE MONOCLONAL AUTOREACTIVE ANTIBODIES

Judith Fraussen^{*[1]}, Kathleen Vrolix^[2], Pilar Martinez-Martinez^[2], Mario Losen^[2], Raymond Hupperts^[3], Bart Van Wijmeersch^[1], Marc De Baets^[2], Piet Stinissen^[1], Veerle Somers^[1]

- ^[1]Hasselt University, Biomedical Research Institute, and Transnationale Universiteit Limburg, School of Life Sciences ~ Diepenbeek ~ Belgium - ^[2]Department of Neuroscience, School of Mental Health and Neuroscience, Maastricht University ~ Maastricht ~ Netherlands - ^[3]Department of Neurology, Orbis Medical Center ~ Sittard ~ Netherlands

78 - INCREASED ANTI-NEURONAL ANTIBODY POSITIVITY IN THYROID ANTIBODY POSITIVE INDIVIDUALS IRRESPECTIVE OF NEUROLOGICAL FINDINGS

Erdem Tuzun^{*[1]}, Hacer Durmus^[1], Murat Kurtuncu^[1], Sema Icoz^[1], Omer Birisik^[1], Mefkure Eraksoy^[1], Angela Vincent^[2], Gulsen Akman-Demir^[1]

- ^[1]Istanbul University, Istanbul Faculty of Medicine, Department of Neurology ~ Istanbul ~ Turkey - ^[2]University of Oxford, Department of Clinical Neurology ~ Oxford ~ United Kingdom

20 - LATE B-CELL DEPLETION INTERRUPTS DEVELOPMENT OF MOG-INDUCED EAE IN MARMOSETS

Yolanda Kap^{*[1]}, Erwin Blezer^[2], Jan Bauer^[3], Nikki van Driel^[1], Jon Laman^[4], Wim Bleeker^[5], Jenny Craigen^[6], Bert 't Hart^[1]

- ^[1]Biomedical Primate Research Centre ~ Rijswijk ~ Netherlands - ^[2]Image Sciences Institute ~ Utrecht ~ Netherlands - ^[3]Brain Research Institute, University of Vienna ~ Vienna ~ Austria - ^[4]Department of Immunology, Erasmus Medical Centre ~ Rotterdam ~ Netherlands - ^[5]Genmab ~ Utrecht ~ Netherlands - ^[6]Discovery, Biopharm R&D, GSK ~ Stevenage ~ United Kingdom

385 - NOVEL HIGHLY SENSITIVE LABORATORY DIAGNOSIS OF MYASTHENIA GRAVIS AND NEUROMYELITIS OPTICA IN ROUTINE USE

Socrates Tzartos^[1], Nikolaos Trakas^[1], John Tzartos^{*[1]}, Christos Stergiou^[1], Paraskevi Zisimopoulou^[1]

- ^[1]Hellenic Pasteur Institute ~ Athens ~ Greece

492 - PATHOGENIC ANTIBODIES IN NEUROMYELITIS OPTICA: INCREASED SENSITIVITY OF CELL-BASED ASSAY WITH CLUSTERED AQUAPORIN-4

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

- ^[1]University of Oxford ~ Oxford ~ United Kingdom

63 - PLASMA CELL-LIKE B CELLS PRODUCE AQUAPORIN4 AUTOANTIBODY IN NEUROMYELITIS OPTICA

Chihara Norio^{*[4]}, Aranami Toshimasa^[4], Sato Wakiro^[4], Miyazaki Yusei^[4], Miyake Sachiko^[4], Okamoto Tomoko^[5], Ogawa Masafumi^[5], Toda Tatsushi^[2], Yamamura Takashi^[4]

- ^[2]Kobe University Graduate School of Medicine ~ Kobe ~ Japan - ^[4]National Institute of Neuroscience, NCNP ~ Tokyo ~ Japan - ^[5]National Center Hospital, NCNP ~ Tokyo ~ Japan

467 - POTASSIUM CHANNEL ANTIBODY LIMBIC ENCEPHALITIS WITH THYMIC HYPERPLASIA: A CASE REPORT

Luigi Zuliani^{*[1]}, Marco Zoccarato^[3], Fiorella Calabrese^[4], Federico Rea^[5], Bruno Tavalato^[3], Bruno Giometto^[1], Angela Vincent^[6]

- ^[1]Ospedale Ca' Foncello - Azienda ULSS 9 ~ Treviso ~ Italy - ^[3]Department of Neuroscience - University of Padua ~ Padua ~ Italy - ^[4]Department of Diagnostic Medical Sciences and Special Therapies - University of Padua ~ Padua ~ Italy - ^[5]Department of Cardio-Thoracic and Vascular Sciences - University of Padua ~ Padua ~ Italy - ^[6]Department of Clinical Neurology, John Radcliffe Hospital - University of Oxford ~ Oxford ~ United Kingdom



526 - REACTIVITY TO HUMAN ANTIGENS OF ANTIBODIES PRODUCED IN MULTIPLE SCLEROSIS PLAQUES

Mark P. Burgoon^{*[1]}, Sarah W. Anderson^[1], Breanna Miller^[1], Xiaoli Yu^[1], Jeffrey L. Bennett^[1], Don Gilden^[1], Gregory P. Owens^[1]

- ^[1]University of Colorado School of Medicine ~ Aurora ~ United States

550 - ROLE OF ANTIBODY AND COMPLEMENT IN DETERMINING SITE OF LESION DEVELOPMENT IN AN ANIMAL MODEL OF MULTIPLE SCLEROSIS

Judith Greer^{*[1]}, Diane Müller^[1]

- ^[1]The University of Queensland ~ Brisbane ~ Australia

7 - SIGNALING THROUGH KAINATE RECEPTORS ENHANCES MURINE B CELL PROLIFERATION AND IG PRODUCTION.

Natalia Chaimowitz^{*[1]}, Conrad Daniel^[1]

- ^[1]Virginia Commonwealth University ~ Richmond ~ United States

350 - SPAG16 ISOFORM 2 AS A NOVEL AUTOANTIGEN IN MULTIPLE SCLEROSIS

Klaartje Somers^{*[2]}, Jerome Hendriks^[2], Raymond Hupperts^[3], Cees Zwanikken^[4], Marcel Verbeek^[5], Piet Stinissen^[2], Veerle Somers^[2]

- ^[2]Hasselt University, Biomedical Research Institute ~ Diepenbeek ~ Belgium - ^[3]School of Mental Health and Neuroscience, Maastricht University Medical Center ~ Maastricht ~ Netherlands - ^[4]Multiple Sclerosis Center Nijmegen (MSCN) ~ Nijmegen ~ Netherlands - ^[5]Radboud University Nijmegen Medical Center, Laboratory of Pediatrics and Neurology ~ Nijmegen ~ Netherlands

462 - VGKC ANTIBODIES IN CHILDREN WITH STATUS EPILEPTICUS

Tanja Brenner^{*[1]}, Jehan Suleiman^[2], Deepak Gill^[3], Fabienne Brilot^[2], Jayne Antony^[3], Russell C Dale^[2], Angela Vincent^[1], Bethan Lang^[1]

- ^[1]Department of Clinical Neurology, Neurosciences Group, University of Oxford ~ Oxford ~ United Kingdom - ^[2]Neuroimmunology Group, Institute for Neuroscience and Muscle Research, Children's Hospital at Westmead, University of Sydney ~ Sydney ~ Australia - ^[3]T.Y. Nelson Department of Neurology, Children's Hospital at Westmead ~ Sydney ~ Australia



Poster Session 17Poster Hall.....13.30 – 15.00

Stem cells

164 - AGE-RELATED CHANGES IN SYSTEMIC CHEMOKINE LEVELS REGULATE ADULT NEUROGENESIS

Saul Villeda*^[3], Jian Luo^[3], Markus Britschg^[3], Trisha Stan^[1], Zhaoqing Ding^[3], Jeong-Soo Park^[3], Jacqueline Grant^[1], Sebastien Couillard-Després^[2], Ludwig Aigner^[2], Thomas Rando^[3], Tony Wyss-Coray^[3]

- ^[1]Stanford University ~ Stanford ~ United States - ^[2]Institute of Molecular Regenerative Medicine, Paracelsus Medical University, Strubergasse ~ Salzburg ~ Austria - ^[3]Department of Neurology and Neurological Sciences, Stanford University School of Medicine ~ Stanford ~ United States

41 - AMELIORATION OF EXPERIMENTAL AUTOIMMUNE ENCEPHALOMYELITIS BY HUMAN ADIPOSE DERIVED MESENCHYMAL STEM CELLS OVEREXPRESSING INTERLEUKIN-10

Natalie Payne*^[1], Guizhi Sun^[1], Christopher Siatskas^[1], Meyer Severine^[2], Jeffrey A Medin^[2], Claude CA Bernard^[1]

- ^[1]Monash Immunology and Stem Cell Laboratories, Monash University ~ Clayton ~ Australia - ^[2]Ontario Cancer Institute and Institute of Medical Science, University of Toronto ~ Toronto ~ Canada

235 - ANTI-INFLAMMATORY FACTORS SECRETED BY BONE MARROW DERIVED STEM/PROGENITOR CELLS (MSCS) INHIBIT MICROGLIAL ACTIVATION

Jessica Foraker*^[4], Jun Watanabe^[2], Darwin Prockop^[2]

- ^[2]Institute for Regenerative Medicine, Texas A&M HSC ~ Temple ~ United States - ^[4]Tulane University ~ New Orleans ~ United States

276 - DIFFERENTIATION OF HUMAN INDUCED PLURIPOTENT STEM CELLS TO MICROGLIAL PRECURSORS

Kristin Roy*^[1], Michael Peitz^[1], Oliver Brüstle^[1], Harald Neumann^[1]

- ^[1]Institute of Reconstructive Neurobiology, University Hospital Bonn and Hertie foundation, University of Bonn ~ Bonn ~ Germany

555 - EFFECTS OF H2O2 ON ADULT NEURAL STEM /PROGENITOR CELLS.

Cynthia Perez Estrada*^[2], Ruxandra Covacu^[1], Tomas Olsson^[1], Mikael Svensson^[1], Lou Brundin^[1]

- ^[1]Karolinska University Hospital ~ Stockholm ~ Sweden - ^[2]Karolinska University Hospital ~ Stockholm ~ Sweden

582 - IDENTIFYING THE INFLAMMATION-INDUCED GENE EXPRESSION PATTERN IN ADULT NEURAL STEM CELLS

Ruxandra Covacu*^[1], Lisa Arvidsson^[1], Cynthia Perez Estrada^[1], Mikael Svensson A^[1], Lou Brundin^[1]

- ^[1]Karolinska Institutet ~ Stockholm ~ Sweden

314 - INDUCED PLURIPOTENT STEM CELLS AS A POTENTIAL SOURCE OF AUTOLOGOUS NEURAL STEM CELLS FOR MULTIPLE SCLEROSIS THERAPY

Cecilia Laterza*^[2], Marco Onorati^[3], Elena Cattaneo^[3], Maira Gironi^[4], Giancarlo Comi^[5], Vania Broccoli^[6], Gianvito Martino^[2]

- ^[2]Neuroimmunology Unit, San Raffaele Scientific Institute ~ Milan ~ Italy - ^[3]Department of Pharmacological Sciences and Centre for Stem Cell Research University of Milano ~ Milan ~ Italy - ^[4]CAM Centro Polidiagnostico di Monza ~ Monza ~ Italy - ^[5]Institute of Experimental Neurology (INSPE), Vita-Salute San Raffaele University ~ Milan ~ Italy - ^[6]Stem Cells and Neurogenesis Unit Division of Neuroscience, San Raffaele Scientific Institute ~ Milan ~ Italy



490 - MESENCHYMAL STEM CELLS SIGNIFICANTLY IMPROVE SURVIVAL IN AN EXPERIMENTAL MODEL OF AMYOTROPHIC LATERAL SCLEROSIS

MariaCristina Principato^{*[1]}, Sara Morando^[1], Simona Casazza^[1], Debora Giunti^[1], Laura Vergani^[2], Adriana Voci^[2], Claudia Caponnetto^[1], Gianbattista Bonanno^[3], Antonio Uccelli^[1], Marco Milanese^[3]

- ^[1]Neuroimmunology Unit, Department of Neurosciences, Ophthalmology and Genetics, University of Genoa ~ Genoa ~ Italy - ^[2]University of Genoa ~ Genoa ~ Italy - ^[3]DISEM, Section of Neuropharmacology University of Genoa, Italy ~ Genoa ~ Italy

421 - MESENCHYMAL STEM CELLS SWITCH MICROGLIA FROM A DETRIMENTAL TO A PROTECTIVE PHENOTYPE.

Debora Giunti^{*[1]}, Benedetta Parodi^[1], Laura Vergani^[2], Santina Bruzzone^[3], Cesare Usai^[4], Gianluigi Mancardi^[1], Antonio Uccelli^[1]

- ^[1]Neuroimmunology Unit, Department of Neuroscience, University of Genoa ~ Genova ~ Italy - ^[2]Department of Biology ~ Genova ~ Italy - ^[3]DISEM, Section of Biochemistry ~ Genova ~ Italy - ^[4]National Research Council, Section of Biophysics ~ Genova ~ Italy

232 - MSC

Peter Darlington^[1], Marie-Noëlle Boivin^[1], Christel Renoux^[1], Moira Francois^[2], Jacques Galipeau^[3], Jeffrey Cohen^[4], Luis Solchaga^[5], Mark Freedman^[6], Harold Atkins^[7], Amit Bar-Or^{*[1]}

- ^[1]Montreal Neurological Institute, and McGill University ~ Montreal ~ Canada - ^[2]Lady Davis Institute, and McGill University ~ Montreal ~ Canada - ^[3]Winship Cancer Institute at Emory University ~ Atlanta ~ United States - ^[4]Neurological Institute, Cleveland Clinic ~ Cleveland ~ United States - ^[5]Case Western Reserve University ~ Cleveland ~ United States - ^[6]Neurology Department, Ottawa General Hospital ~ Ottawa ~ Canada - ^[7]University of Ottawa ~ Ottawa ~ Canada

406 - THERAPEUTIC POTENTIAL OF ADIPOSE-DERIVED MSC IN EXPERIMENTAL MODELS OF NEUROLOGICAL DISEASES.

Silvia Marconi^{*[2]}, Gabriela Constantin^[3], Barbara Rossi^[3], Stefano Angiari^[3], Raffaella Mariotti^[4], Ermanna Turano^[1], Alessia Farinazzo^[1], Francesco Bifari^[5], Mauro Kramer^[5], Bruno Bonetti^[1]

- ^[1]Department of Neurological Sciences, University of Verona ~ Verona ~ Italy - ^[2]Department of Neurological Sciences, University of Verona ~ Verona ~ Italy - ^[3]2Department of Pathology, University of Verona ~ Verona ~ Italy - ^[4]Morphological-Biomedical Sciences, Section of Anatomy, University of Verona ~ Verona ~ Italy - ^[5]3Department of Clinical and Experimental Medicine ~ Verona ~ Italy

679 - PGE2 MEDIATES IN VITRO BMSC-DEPENDENT INHIBITION OF MYELIN-STIMULATED T CELLS PROLIFERATION IN MS PATIENTS

Marina Zafranskaya^{*[1]}, Alexander Fedulov^[2], Darya Nisheharodava^[1], Mariya Yurkevich^[1], Galina Ivanchik^[1], Svetlana Bagatka^[1], Yana Motuzova^[2], Natalia Milanovich^[3]

- ^[1]Belarusian Medical Academy of Post-Graduate Education, Minsk, Belarus - ^[2]Belarusian State Medical University, Belarus - ^[3]9th Municipal Hospital, Minsk City, Belarus



Poster Session 18Poster Hall.....13.30 – 15.00
Innate immune system

209 - A BENEFICIAL FEEDBACK LOOP BETWEEN BLOOD-DERIVED MACROPHAGES AND THE GLIAL SCAR IN THE INJURED SPINAL CORD

Catarina Raposo^{*[1]}, Ravid Shechter^[1], Anat London^[1], Michal Schwartz^[1]

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

456 - A NEW ROLE FOR ADENOSINE A3 RECEPTORS IN CHRONIC NEUROINFLAMMATION

Celine van der Putten^{*[1]}, Elfa A. Zuiderwijk-Sick^[1], Linda van Straalen^[1], Eveline D. de Geus^[2], Leonie A. Boven^[2], Ivanela Kondova^[3], Ad P. IJzerman^[4], Jeffrey J. Bajramovic^[1]

- ^[1]Alternatives Unit, Biomedical Primate Research Centre ~ Rijswijk ~ Netherlands - ^[2]Department of Immunology, Erasmus MC ~ Rotterdam ~ Netherlands - ^[3]Animal Science Department, Biomedical Primate Research Centre ~ Rijswijk ~ Netherlands - ^[4]Division of Medicinal Chemistry, Leiden/Amsterdam Center for Drug Research ~ Leiden ~ Netherlands

386 - ACTIVATION OF INNATE IMMUNE RESPONSES IS A HALLMARK OF THE ACTIVE LESION IN MULTIPLE SCLEROSIS

John Tzartos^[1], Gulfaraz Khan^[2], Anna Vossenkaemper^[3], Tony Meager^[4], Ese Sefia^[3], Mike Clemens^[5], Gavin Giovannoni^[5], Ute-Christiane Meier^{*[5]}

- ^[1]Hellenic Pasteur Institute & University of Oxford ~ Athens ~ Greece - ^[2]Faculty of Medicine and Health Sciences & St Georges Hospital ~ Al Ain ~ United Arab Emirates - ^[3]Queen Mary University London, Institute of Cell and Molecular Sciences ~ London ~ United Kingdom - ^[4]National Institute for Biological Standard ~ South Mimms, Potters Bar ~ United Kingdom - ^[5]St Georges Hospital ~ London ~ United Kingdom

457 - ACTIVATION OF INNATE IMMUNE RESPONSES IS A HALLMARK OF THE ACTIVE LESION IN MULTIPLE SCLEROSIS

Tzartos John^[1], Gulfaraz Khan^[2], Anna Vossenkaemper^[3], Meager Anthony^[4], Ese Sefia^[5], Jaap Middeldorp^[6], Gavin Giovannoni^[5], Ute-Christiane Meier^{*[5]}

- ^[1]Hellenic Pasteur Institute, Dept of Biochemistry ~ Athens ~ Greece - ^[2]Faculty of Medicine and Health Sciences, Al Ain, Department of Microbiology and Immunology ~ Al Ain ~ United Arab Emirates - ^[3]Queen Mary University London, Institute of Cell and Molecular Sciences, Centre for Infectious Disease ~ London ~ United Kingdom - ^[4]National Institute for Biological Standard, South Mimms ~ Potters Bar ~ United Kingdom - ^[5]Queen Mary University London, Institute of Cell and Molecular Sciences, Centre for Neuroscience ~ London ~ United Kingdom - ^[6]VU University Medical Centre ~ Amsterdam ~ Netherlands

584 - AGING AND APOE4 ON INNATE IMMUNITY IN NON-DEMENTED AND ALZHEIMER DISEASE BRAINS

David Cribbs^[1], Nicole Berchtold^[1], Carl Cotman^[1]

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

568 - BLOOD-BRAIN BARRIER DISRUPTION INDUCE SERUM PROTEINS LEAKAGE IN TEMPORAL LOBE EPILEPSY: AUTOIMMUNITY OR TOXICITY?

Zuzanna Michalak^{*[1]}, David C. Henshall^[2], Mireille Lerner-Natoli^[1], Valérie Rigau^[1]

- ^[1]Institut de Génomique Fonctionnelle (IGF) ~ Montpellier ~ France - ^[2]Royal College of Surgeons in Ireland (RCSI) ~ Dublin ~ Ireland

256 - CHARACTERIZING GENETIC REGULATION AND FUNCTION OF COMPLEMENT ACTIVATION IN THE TRAUMATIZED CNS

Rickard Lindblom^[1], Mikael Ström^[1], Alexander Berg^[2], Matthias Heinig^[3], Johan Zelano^[2], Faiez Al Nimer^[1], Fredrik Piehl^{*[1]}

- ^[1]Department of Clinical Neuroscience, Unit for Neuroimmunology, Karolinska Institutet ~ Stockholm ~ Sweden - ^[2]Department of Neuroscience, Karolinska Institutet ~ Stockholm ~ Sweden - ^[3]Experimental and Clinical Research Center and Max-Delbrück Center for Molecular Medicine ~ Berlin ~ Germany

274 - COMPLEMENT OPSONIZATION AND MICROGLIAL REMOVAL OF ASIALYLATED NEURONAL PROCESSES

Bettina Linnartz^{*[1]}, Liviu-Gabriel Bodea^[1], Janine Claude^[1], Harald Neumann^[1]

- ^[1]Neural Regeneration, Institute of Reconstructive Neurobiology, University Hospital Bonn, University Bonn ~ Bonn ~ Germany



512 - DENDRITIC CELL SUBSETS IN MULTIPLE SCLEROSIS

Mario Picozza*^[1], Elisabetta Volpe^[1], Claudio Gasperini^[2], Maria Grazia Grasso^[1], Luca Battistini^[1], Giorgio Bernardi^[3], Diego Centonze^[3], Giovanna Borsellino^[1]

- ^[1]Neuroimmunology Unit, IRCCS Santa Lucia Foundation ~ Rome ~ Italy - ^[2]Department of Neuroscience "Lancisi", San Camillo Hospital ~ Rome ~ Italy - ^[3]Department of Neuroscience, University of Rome Tor Vergata, Rome, Italy

441 - DIFFERENTIAL RESPONSES OF HUMAN MICROGLIA AND BLOOD DERIVED MYELOID CELLS TO FTY720

Bryce A. Durafour^[1], Caroline Lambert^[1], Trina A. Johnson^[1], Manon Blain^[1], Amit Bar-Or^[1], Jack P. Antel^[1]

- ^[1]McGill University ~ Montréal ~ Canada

419 - EFFECT OF IL-27 ON NATURAL KILLER CELL SUBSETS. REGULATION OF THE IMMUNE RESPONSE AND INDUCTION OF CD56BRIGHT SUPPRESSOR CELLS.

Alice Laroni*^[1], Roopalí Gandhi^[1], Vanessa Beynon^[1], Howard L. Weiner^[1]

- ^[1]Brigham and Women's Hospital and Harvard Medical School ~ Boston ~ United States

160 - ENHANCED STIMULATION OF PHAGOCYTOSIS OF E. COLI BY MURINE MICROGLIA WITH A COMBINATION OF MURAMYL DIPEPTIDE AND ONE TLR AGONIST

Sandra Ribes*^[1], Nina Adam^[1], Sandra Ebert^[1], Roland Nau^[2]

- ^[1]Department of Neurology, University of Göttingen ~ Göttingen ~ Germany - ^[2]Department of Geriatrics, Evangelisches Krankenhaus Göttingen-Weende ~ Göttingen ~ Germany

514 - IMMUNOREGULATORY CD56BRIGHT NK CELLS KILL AUTOLOGOUS T CELLS THROUGH GRANZYME-K (AND A) MEDIATED INDUCTION OF REACTIVE OXYGEN SPECIES

Wenzheng Jiang^[1], Bibiana Bielekova*^[1]

- ^[1]NIH/NINDS/Neuroimmunology Branch ~ Bethesda ~ United States

239 - MACROPHAGE RECRUITMENT TO THE BRAIN FOLLOWING TRAUMATIC BRAIN INJURY IS PARTIALLY-DEPENDENT ON CCR2

Christine Hsieh*^[1], Erene Niemi^[1], Mary Nakamura^[1], William Seaman^[1]

- ^[1]University of California San Francisco ~ San Francisco ~ United States

297 - MOLECULAR BASIS FOR THE INDUCTION OF PROTECTIVE TYPE I INTERFERON WITHIN THE CENTRAL NERVOUS SYSTEM

Claudia Detje*^[1], Lienenklaus Stefan^[2], Bruce Beutler^[3], Jürg Tschopp^[4], Weiss Siggli^[2], Ulrich Kalinke^[1]

- ^[1]TWINCORE, Centre for Experimental and Clinical Infection Research ~ Hannover ~ Germany - ^[2]Helmholtz Centre for Infection Research ~ Braunschweig ~ Germany - ^[3]The Scripps Research Institute ~ La Jolla ~ United States - ^[4]University of Lausanne ~ Lausanne ~ Switzerland

26 - NETRIN-1 IN THE CENTRAL NERVOUS SYSTEM TISSUES WITH RAT EXPERIMENTAL AUTOIMMUNE ENCEPHALOMYELITIS AND IRRADIATION INJURY

Taekyun SHIN*^[1], Changjong MOON^[2], Meejung AHN^[1]

- ^[1]Jeju National University ~ Jeju ~ Korea South - ^[2]Chonnam National University ~ Gwangju ~ Korea South

36 - NEUROPROTECTIVE FUNCTION OF THE MICROGLIAL IMMUNORECEPTOR TYROSINE-BASED INHIBITORY MOTIF-SIGNALING RECEPTOR SIGLEC-11

Yiner Wang^[1], Janine Claude^[1], Bettina Linnartz^[1], Harald Neumann*^[1]

- ^[1]University Bonn ~ Bonn ~ Germany



453 - PHENOTYPICAL CHARACTERIZATION OF NEUTROPHILS IN MULTIPLE SCLEROSIS

Matthias Naegele^{*[1]}, Kati Tíllack^[1], Roland Martín^[1], Mireia Sospedra^[1]

- ^[1]Institute for Neuroimmunology and Clinical MS Research, Center for Molecular Neurobiology Hamburg, University Medical Center-Eppendorf ~ Hamburg ~ Germany

178 - RNA SENSORS IN FIBROBLAST-LIKE SYNOVIOCYTES FROM OSTEOARTHRITIS AND RHEUMATOID ARTHRITIS PATIENTS. EFFECT OF VIP.

Mar Carrión^{*[1]}, Yasmina Juarranz^[1], Selene Pérez-García^[1], Rebeca Jimeno^[1], Carmen Martínez ^[2], Javier Leceta^[1], José Luis Pablos^[3], Rosa P. Gomariz^[1], Irene Gutiérrez-Cañas^[1]

- ^[1]Facultad de Biología. Universidad Complutense Madrid ~ Madrid ~ Spain - ^[2]Facultad de Medicina. Universidad Complutense de Madrid ~ Madrid ~ Spain - ^[3]Hospital 12 de octubre ~ Madrid ~ Spain

294 - STATINS ENHANCE TLR-INDUCED PRO-INFLAMMATORY RESPONSES OF RHESUS MONKEY MICROGLIA

Celine van der Putten^{*[1]}, Hedwich F. Kuipers^[2], Ella A. Zuiderwijk-Sick^[1], Linda van Straalen^[1], Ivanela Kondova^[3], Peter J. van den Elsen^[4], Jeffrey J. Bajramovic^[1]

- ^[1]Alternatives Unit, Biomedical Primate Research Centre ~ Rijswijk ~ Netherlands - ^[2]Department of Immunohematology and Blood Transfusion, Leiden University Medical Center ~ Leiden ~ Netherlands - ^[3]Animal Science Department, Biomedical Primate Research Centre ~ Rijswijk ~ Netherlands - ^[4]Department of Pathology, VU Medical Center ~ Amsterdam ~ Netherlands

99 - THE MULTIPLE SCLEROSIS SUSCEPTIBILITY ALLELE IN TNFRSF1A CREATES A NEW RNA ISOFORM THAT RESULTS IN A TRUNCATED TNFRSF1A PROTEIN

Linda Ottoboni^{*[1]}, Brian Healy^[1], Irene Wood^[1], David Hafler^[2], Philip De Jager^[1]

- ^[1]Brigham and Women's Hospital and Harvard Medical School ~ Boston ~ United States - ^[2]Yale School of Medicine ~ New Haven ~ United States

183 - THE ROLE OF ACTIVATED MICROGLIA IN LPS-INDUCED NEUROPROTECTION IN AN ASEPTIC BRAIN INJURY MODEL

Zhihong Chen^{*[1]}, Walid Jalabi^[1], Ranjan Dutta^[1], Bruce Trapp^[1]

- ^[1]Cleveland Clinic ~ Cleveland ~ United States

300 - THE ROLE OF THE COMPLETE FREUND'S ADJUVANT AND NEUTROPHILS IN ACTIVELY INDUCED LEWIS RAT EAE

Roberta Rigolio^{*[1]}, Alessia Chiorazzi^[1], Cristina Meregalli^[1], Annalisa Canta^[1], Valentina Alda Carozzi^[1], Virginia Rodríguez-Menendez^[1], Federica Avezza^[1], Luca Crippa^[2], Norberto Oggioni^[1], Guido Cavaletti^[1]

- ^[1]Università Milano-Bicocca ~ Monza ~ Italy - ^[2]Veterinary Pathology Labs, ISTOVET ~ Monza ~ Italy

532 - TLR2 STIMULATION PROMOTES IL-17 PRODUCTION BY HUMAN CD4+CD25+ TREGS AND REDUCES THEIR SUPPRESSIVE FUNCTION

Mukanthu H Nyirenda^{*[1]}, Lara Sanvito^[1], Cris S Constantinescu^[1], Bruno Gran^[1]

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

494 - TLR7 AND TLR9 STIMULATION REDUCE THE SEVERITY OF EXPERIMENTAL AUTOIMMUNE ENCEPHALOMYELITIS SEVERITY BY EXPANDING PLASMACYTOID DENDRITIC CELLS IN THE CENTRAL NERVOUS SYSTEM

Kate O'Brien^{*[1]}, Francesca Fallarino^[2], Bruno Gran^[1]

- ^[1]University of Nottingham ~ Nottingham ~ United Kingdom - ^[2]University of Perugia ~ Perugia ~ Italy

485 - TOLL-LIKE RECEPTOR 3 IS PIVOTAL FOR THE DEVELOPMENT OF TMEV-INDUCED DEMYELINATING DISEASE

D'Anne Duncan^{*[1]}, Stephen Miller ^[1]

- ^[1]Northwestern University, Feinberg School of Medicine, Department of Microbiology-Immunology, Chicago, IL, USA



Poster Session 19Poster Hall.....13.30 – 15.00
Neurodegeneration

304 - A NEURODEGENERATIVE ROLE FOR ASTROCYTIC TRKB IN MULTIPLE SCLEROSIS AND EXPERIMENTAL AUTOIMMUNE ENCEPHALOMYELITIS

Chiara Cordiglieri^{*[1]}, Giorgia Mellì^[1], Jia Newcombe^[2], Markus Krumbholz^[3], Enzo Medico^[4], Reinhard Hohlfeld^[3], Hans Lassmann^[6], Edgar Meinl^[3], Cinthia Farina^[1]

- ^[1]Istituto Neurologico Besta, Malattie Neuromuscolari e Neuroimmunologia ~ Milano ~ Italy - ^[2]NeuroResource, UCL- Institute of Neurology ~ London ~ United Kingdom - ^[3]Max Planck Institute for Neurobiology ~ Munich ~ Germany - ^[4]Institute for Cancer Research and Treatment ~ Torino ~ Italy - ^[6]Center for Brain Research, Medical University of Vienna ~ Vienna ~ Austria

359 - ACCELERATED MICROGLIAL ACTIVATION AND NEURODEGENERATION IN TRIGGERING RECEPTOR EXPRESSED ON MYELOID CELLS-2 (TREM2) DEFICIENT MICE AFTER SYSTEMIC INFLAMMATORY CHALLENGE

Liviu-Gabriel Bodea^{*[1]}, Bettina Linnartz^[1], Marco Colonna^[3], Harald Neumann^[1]

- ^[1]Institute of Reconstructive Neurobiology, University of Bonn ~ Bonn ~ Germany - ^[3]Department of Pathology and Immunology, Washington University School of Medicine ~ St. Louis, MO ~ United States

337 - BLOOD-BORNE MACROPHAGES ARE ESSENTIAL FOR RETINAL GANGLION CELL SURVIVAL AND FOR PROGENITOR CELL RENEWAL FOLLOWING INSULT.

Anat London^{*[1]}, Lena Itskovich^[1], Inbal Benhar^[1], Michal Schwartz^[1]

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

416 - CHITIN IN ALZHEIMER'S DISEASE: ROLE OF MICROGLIA IN A NOVEL CYTOTOXIC PATHWAY

Ermanna Turano^{*[1]}, Silvia Marconi^[1], GianLuigi Zanusso^[1], Salvatore Monaco^[1], Stefano Sotgiu^[2], Bruno Bonetti^[1]

- ^[1]Department of Neurological Sciences and Vision, University of Verona, Italy ~ Verona ~ Italy - ^[2]Department of Neuroscience, University of Sassari, Italy ~ Sassari ~ Italy

135 - EARLY MICROGLIAL ACTIVATION AND BLOOD-RETINAL BARRIER BREAKDOWN DURING AUTOIMMUNE OPTIC NEURITIS

Richard Fairless^{*[1]}, Sarah Williams^[1], Dorit Hoffmann^[1], Ricarda Diem^[1]

- ^[1]University of the Saarland ~ Homburg ~ Germany

414 - EXPRESSION OF IL-1 β AND TNF- α IN ALZHEIMER'S PATHOLOGY IN MICE BEFORE AND AFTER ENDOTOXIN CHALLENGE

Laura Ilkjaer^{*[1]}, Alicia Anne Babcock^[1], Bente Finsen^[1]

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

202 - FRACTALKINE EXERTS NEUROPROTECTIVE EFFECT AGAINST EXCITOTOXIC NEURONAL DAMAGE VIA MICROGLIAL CLEARANCE OF DAMAGED NEURONS AND UPREGULATION OF HO-1 EXPRESSION

Mariko Noda^[1], Yukiko Doi^[1], Liang Jianfeng^[1], Jun Kawanokuchi^[1], Yoshifumi Sonobe^[1], Hideyuki Takeuchi^[1], Mizuno Tetsuya^[1], Akio Suzumura^[1]

- ^[1]Research Institute of Environmental Medicine, Nagoya University ~ Nagoya ~ Japan

430 - IMAGING THE INNATE IMMUNE CELLS AFTER EXPERIMENTAL STROKE

Jens Neumann^{*[1]}, Monika Riek-Burchardt^[2], Klaus G Reymann^[3], Matthias Gunzer^[4]

- ^[1]Department of Neurology, University of Magdeburg ~ Magdeburg ~ Germany - ^[2]Leibniz Institute for Neurobiology, Project Group Neuropharmacology ~ Magdeburg ~ Germany - ^[3]Institute Applied Neurosciences gGmbH and Leibniz Institute for Neurobiology, project group Neuropharmacology ~ Magdeburg ~ Germany - ^[4]Otto-von-Guericke-University Magdeburg, Institute for Molecular and Clinical Immunology ~ Magdeburg ~ Germany

Friday October 29th, 2010 - Poster Session 19



104 - IMMUNOREACTIVITY TO AXONAL PROTEINS IN MULTIPLE SCLEROSIS. A SURVEY, FROM CLINICAL TO BIOLOGICAL MARKERS.

Maria de los Angeles Robinson-Agramonte^{*[1]}, Jose Antonio Cabrera Gomez^[1], Reiber Hansotto^[2]

- ^[1]CIREN ~ Havana City ~ Cuba - ^[2]Goettingen University ~ Goettingen ~ Germany

49 - IN VIVO IMAGING AFTER STROKE INVESTIGATED BY INTRACRANIAL 2-PHOTON MICROSCOPY

Monika Riek-Burchardt^{*[1]}, Jens Neumann^[2], Gabriella Orlando^[3], Matthias Gunzer^[4], Klaus G Reymann^[5]

- ^[1]Leibniz Institute for Neurobiology, project group Neuropharmacology ~ Magdeburg ~ Germany - ^[2]Otto-von-Guericke-University Magdeburg, Department of Neurology ~ Magdeburg ~ Germany - ^[3]Otto-von-Guericke-University Magdeburg, Institute for Molecular and Clinical Immunology ~ Magdeburg ~ Germany - ^[4]Otto-von-Guericke-University Magdeburg, Institute for Molecular and Clinical Immunology ~ Magdeburg ~ Germany - ^[5]Institute Applied Neurosciences gGmbH and Leibniz Insitute for Neurobiology, project group Neuropharmacology ~ Magdeburg ~ Germany

58 - INFLUENCE OF TH CELL CYTOKINES ON NEURONAL CELL DEATH AFTER HYPOXIC INSULT

Corinna Vegelahn^{*[1]}, Monika Riek-Burchardt^[1], Jenny Schneeberg^[1], Gabriella Orlando^[2], Matthias Gunzer^[2], Klaus G Reymann^[3]

- ^[1]Leibniz Institute for Neurobiology, Project Group Neuropharmacology ~ Magdeburg ~ Germany - ^[2]Otto-von-Guericke-University Magdeburg, Institute for Molecular and Clinical Immunology ~ Magdeburg ~ Germany - ^[3]Institute Applied Neurosciences gGmbH and Leibniz Insitute for Neurobiology, project group Neuropharmacology ~ Magdeburg ~ Germany

169 - MONITORING OF DEGENERATION OF THE RETINAL NERVE FIBER LAYER BY OPTICAL COHERENCE TOMOGRAPHY IN RATS WITH AUTOIMMUNE OPTIC NEURITIS

Katharina Hein^{*[1]}, Ivana Gadjanski^[1], Muriel Sättler^[1], Benedikt Kretzschmar^[1], Ricarda Diem^[2], Mathias Bähr^[1]

- ^[1]Dept. of Neurology ~ Göttingen ~ Germany - ^[2]Dept. of Neurology ~ Homburg/Saar ~ Germany

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

Liu Liping^{*[1]}, Darnall Lindsey^[1], Hu Taofang^[1], Karen Choi^[1], Richard Ransohoff^[1]

- ^[1]Neuroinflammation Research Centre, Dept. of Neuroscience, Lerner Research Institute, Cleveland Clinic, Ohio, USA

214 - NEUROPROTECTIVE ACTIVITY OF SMALL MOLECULE MILDRONATE IN PARKINSON'S DISEASE RAT MODEL: FOCUS ON NEURONAL AND GLIAL MARKERS

Vija Klusa^{*[1]}, Sergejs Isajevs^[1], Jolanta Pupure^[1], Darja Svirina^[1], Juris Rumaks^[1], Simons Svirskis^[1], Baiba Jansone^[1], Ruta Muceniece^[1], Zane Dzirkale^[1], Ulrika Beitnere^[1], Ivars Kalvinsh^[2]

- ^[1]University of Latvia ~ Riga ~ Latvia - ^[2]Latvian Institute of Organic Synthesis ~ Riga ~ Latvia

106 - NEUROPROTECTIVE EFFECTS OF THE CELLULAR PRION PROTEIN IN AUTOIMMUNE OPTIC NEURITIS

Sarah Williams^{*[1]}, Richard Fairless^[1], Ulrich Kalinke^[2], Walter Schulz-Schaeffer^[3], Ricarda Diem^[1]

- ^[1]University of the Saarland ~ Homburg Saar ~ Germany - ^[2]Twincore-Center for Experimental and Clinical Infection Research, ~ Hannover ~ Germany - ^[3]Georg-August University Goettingen ~ Goettingen ~ Germany

55 - PARP-1 PLAYS A ROLE IN NEURODEGENERATION VIA A BNIP3 CONVERGING MECHANISM.

Amit Kamboj^{*[1]}, Christopher Anderson^[1]

- ^[1]St Boniface Hospital Research Centre ~ Winnipeg ~ Canada



541 - REDUCED BECLIN 1 IN MICROGLIA IMPAIRS PHAGOCYTOSIS AND CLEARANCE OF AMYLOID BETA

Kurt Lucin^{*[1]}, Eva Czirr^[1], Brian Spencer^[2], Tony Wyss-Coray^[1]

- ^[1]Stanford University ~ Palo Alto ~ United States - ^[2]University of California, San Diego ~ La Jolla ~ United States

42 - SECRETAGRANIN III IN THE CEREBRAL CORTEX OF APP/PS1 TRANSGENIC MICE AND ALZHEIMER DISEASE

Victor Ciria^[1], Sonia Paco^[1], Virginia Pla^[1], Isidro Ferrer^[3], Fernando Aguado^{*[1]}

- ^[1]Universitat de Barcelona ~ Barcelona ~ Spain - ^[3]IDIBELL-Universitat de Barcelona ~ Barcelona ~ Spain

64 - THE NEUROPROTECTIVE ROLE OF IL-34 IN OLIGOMERIC AMYLOID BETA TOXICITY

Tetsuya Mizuno^{*[2]}, Yukiko Doi^[2], Shijie Jin^[2], Hiroyuki Mizoguchi^[3], Hideyuki Takeuchi^[2], Akio Suzumura^[2]

- ^[2]Neuroimmunology, RIEM, Nagoya University ~ Nagoya ~ Japan - ^[3]Futuristic Environmental Simulation Center, RIEM, Nagoya University ~ Nagoya ~ Japan

327 - THE ROLE OF CYTOSOLIC PHOSPHOLIPASE A2 ALPHA IN NEURONAL DEGENERATION

Chen Sagy-Bross^{*[1]}, Nurit Hadad^[2], Rachel Levy^[1]

- ^[1]Ben-Gurion University of the Negev ~ Beer-Sheva ~ Israel - ^[2]Ben-Gurion University of the Negev ~ Beer-Sheva ~ Israel



Poster Session 20.....Poster Hall.....13.30 – 15.00

Clinical research

380 - A CLINICAL STUDY ON THE GENERALIZATION OF CHILDHOOD OCULAR MYASTHENIA GRAVIS

Haifeng Li^{*[1]}, Haiping Wang^[1], Renliang Zhao^[1], Zhaolin Sun^[1]

- ^[1]Department of Neurology, Affiliated Hospital of Medical College, Qingdao University ~ Qingdao ~ China

382 - ACETYLCHOLINE RECEPTOR ANTIBODY IN MYASTHENIA GRAVIS:A STUDY IN NORTH CHINESE PATIENTS

Yuan Qu^{*[1]}, Yan-chen Xie^[1], Haifeng Li^[3], Hua Zhang^[4], Liang Sun^[5], Xiao-quan Zhu^[5], Bin Jiang^[1], Shu-hui Wang^[1], De-xin Wang^[1]

- ^[1]Beijing Friendship Hospital ~ Beijing ~ China - ^[2]Affiliated Hospital of Medical College, Qingdao University, ~ Qingdao ~ China - ^[3]Beijing Hospital ~ Beijing ~ China - ^[4]National Institute of Geriatrics, Beijing Hospital ~ Beijing ~ China

131 - ANTIBODIES AGAINST CITRULLINATED PEPTIDES (CCP) IN CHILDHOOD AUTOIMMUNE NEUROLOGICAL DISORDERS

Banu Anlar^{*[1]}, Mujgan Sonmez^[1], F Yasar Anlar^[3]

- ^[1]Hacettepe University ~ Ankara ~ Turkey - ^[2]Bayindir Medical Center ~ Ankara ~ Turkey

62 - ANTI-PHOSPHACAN ANTIBODY IN CIDP

Susumu Kusunoki^{*[1]}, Hiromi Aomatsu^[1], Jyoji Morise^[2], Shogo Oka^[2]

- ^[1]Kinki University ~ Osaka-Sayama ~ Japan - ^[2]Kyoto University ~ Kyoto ~ Japan

46 - ASSOCIATIONS OF HLA-A, -B, -DRB1 ALLELES AND HAPLOTYPES WITH MYASTHENIA GRAVIS IN NORTH CHINESE

Yan-chen Xie^{*[1]}, Yuan Qu^{*[1]}, Hai-feng Li^{*[2]}, Liang Sun^{*[3]}, Hua Zhang^{*[3]}

- ^[1]Beijing Friendship Hospital, Capital Medical University ~ Beijing ~ China - ^[2]Affiliated Hospital of Medical College, Qingdao University ~ Qingdao ~ China - ^[3]Beijing Hospital ~ Beijing ~ China

363 - CIRCADIAN RHYTHM CHANGES IN SEVERAL NEUTROPHIL FUNCTIONS IN RESPONSE TO A SPINAL OSTEOPATHIC MANIPULATIVE TREATMENT IN YOUNG PEOPLE.

Carlos Javier Carpintero^{*[1]}, Ianire Maté^[1], Carmen Vida^[1], Mónica De la Fuente^[1]

- ^[1]Department of Physiology II. Faculty of Biology, Complutense University ~ Madrid ~ Spain

37 - CLINICAL CHARACTERISTICS OF ELDERLY-ONSET PATIENTS WITH MYASTHENIA GRAVIS IN CHINA: A RETROSPECTIVE HOSPITAL-BASED STUDY

Yan-chen Xie^{*[1]}, Hai-feng Li^{*[2]}, Hua Zhang^{*[3]}, Shu-hui Wang^{*[1]}, Bin Jiang^{*[1]}, Yuan Zhao^{*[1]}, Jia-wei Wang^{*[1]}, Yuan Qu^{*[1]}, De-xin Wang^{*[1]}, Xian-hao Xu^{*[3]}

- ^[1]Beijing Friendship Hospital, Capital Medical University ~ Beijing ~ China - ^[2]Affiliated Hospital of Medical College, Qingdao University ~ Qingdao ~ China - ^[3]Beijing Hospital ~ Beijing ~ China

117 - CLINICAL FEATURES OF 583 JAPANESE PATIENTS WITH POSITIVE ANTI AQUAPORIN-4 ANTIBODIES.

Akiko Nagaishi^{*[1]}, Takashi Tani^[5], Kenji Sakimura^[5], Masami Tanaka^[4], Makoto Matsui^[3], Masatoyo Nishizawa^[5], Keiko Tanaka^[3]

- ^[1]Nagasaki Kawatana Medical Center ~ Nagasaki ~ Japan - ^[2]Kanazawa Medical University ~ Ishikawa ~ Japan - ^[3]MS center, Utano National Hospital ~ Kyoto ~ Japan - ^[4]Brain Research Institute, Niigata University ~ Niigata ~ Japan



136 - CLINICAL SPECTRUM OF ANTI-NMDA RECEPTOR ANTIBODY RELATED ENCEPHALITIS DIAGNOSED BY CELL-BASED IMMUNOFLOUORESCENSE DETECTION SYSTEM

Keiko Tanaka*^[1], Michiyo Nakata^[1], Makoto Matsui^[1], Kenji Sakimura^[2]

- ^[1]Kanazawa Medical University ~ Ishikawa ~ Japan - ^[2]Niigata University ~ Niigata ~ Japan

446 - DEVELOPMENT OF A NOVEL FLUORESCENCE-BASED ASSAY FOR LAMBERT-EATON MYASTHENIC SYNDROME.

Mark Woodhall*^[1], Angela Vincent^[1], David Beeson^[1], Bethan Lang^[1]

- ^[1]University of Oxford ~ Oxford ~ United Kingdom

115 - DYNAMICS OF NK CELLS SUBSETS IN MULTIPLE SCLEROSIS PATIENTS DURING TREATMENT WITH ANTI-CD25 ANTIBODIES

Angélica Cuapio*^[1], Klarissa Stuermer^[1], Alí Chahvand^[1], Anna Jonnas^[1], Christoff Heesen^[1], Eva Tolosa^[1]

- ^[1]University Medical Center Hamburg-Eppendorf ~ Hamburg ~ Germany

89 - EFFECT OF MAIPING ON ANGIOTENSIN II-INDUCED MMPS EXPRESSION IN VASCULAR SMOOTH MUSCLE CELLS

Hui wen Sun^[1], Xu guo Liang^[2]

- ^[1]The 107th Hospital of PLA. ~ Yantai ~ China - ^[2]Affiliated Yuhuangding Hospital, Qingdao University Medical College ~ Yantai ~ China

361 - EFFECTS OF AN OSTEOPATHIC MANIPULATIVE TREATMENT ON SEVERAL FUNCTIONS OF LYMPHOCYTES FROM YOUNG PEOPLE WITH SPINAL PAIN.

Carlos Javier Carpintero*^[1], Mónica De la Fuente^[1], Ianire Maté^[1], Carmen Vida^[1]

- ^[1]Department of Physiology II, Faculty of Biology, Complutense University ~ Madrid ~ Spain

72 - ELEVATED LEVELS OF PREALBUMIN, HAPTOGLOBIN AND FIBRINOGEN IN THE CEREBROSPINAL FLUID OF CHRONIC INFLAMMATORY DEMYELINATING POLYNEUROPATHY AND GUILLAIN-BARRÉ SYNDROME

Kejia Zhang^[2], Hongliang Zhang^[1], Xingmei Zhang^[1], Xijing Mao^[1], Rayomand Press^[1], Sten Fredrikson^[1], Hui Deng^[1], Haifeng Li^[3], Jie Zhu^[1]

- ^[1]Karolinska Institute ~ Stockholm ~ Sweden - ^[2]The 1st Hospital of Jilin University ~ Changchun ~ China - ^[3]Qingdao University ~ Qingdao ~ China

332 - EVALUATION OF QOL FOR PATIENTS WITH MYASTHENIA GRAVIS USING SF-36

Yuko Nemoto*^[1]

- ^[1]Chiba University ~ Chiba ~ Japan

65 - EXPERIMENTAL ANALYSIS OF ZINC, MANGANESE, AND CALCIUM LEVEL IN SCALP HAIR SAMPLES OF SCHIZOPHRENIC PATIENTS IN DHAKA CITY OF BANGLADESH

Md. Ariful Haque Mollik*^[1]

- ^[1]Peoples Integrated Alliance ~ Dhaka ~ Bangladesh

381 - EXTRATHYMIC MALIGNANCIES IN MYASTHENIA GRAVIS PATIENTS: A HOSPITAL-BASED STUDY

Haifeng Li*^[1], Xu Zhang^[1], Zhaolin Sun^[1]

- ^[1]Department of Neurology, Affiliated Hospital of Medical College, Qingdao University ~ Qingdao ~ China



502 - FUNCTIONAL CONSEQUENCES OF IL7R RISK AND PROTECTIVE ALLELES ON IMMUNE RESPONSES IN MULTIPLE SCLEROSIS

Jan Jäger^{*[1]}, Christian Schulze^[1], Sabine Rösner^[3], Roland Martin^[1]

- ^[1]Institute for Neuroimmunology and Clinical MS Research ~ Hamburg ~ Germany - ^[3]Department of Neurology, University Medical Center-Eppendorf ~ Hamburg ~ Germany

400 - HYPOSMIA AND DEPRESSION IN SYSTEMIC LUPUS ERYTHEMATOSUS AND MULTIPLE SCLEROSIS

Ana Martins Silva^{*[1]}, Sara Cavaco^[1], Ernestina Santos^[1], Ester Coutinho^[1], Ines Moreira^[1], Alexandra Gonçalves^[1], Claudia Pinto^[1], Carlos Vasconcelos^[1]

- ^[1]Centro Hospitalar do Porto - Hospital de S. António ~ Oporto ~ Portugal

378 - IMMUNE RECONSTITUTION INFLAMMATORY SYNDROME AFFECTING THE CNS (NEURO-IRIS) DURING HIV INFECTION: NEW INSIGHTS ON ITS PATHOPHYSIOLOGY FROM A CASE SERIES.

Guillaume Martin-Blondel^{*[1]}, Jan Bauer^[2], Bruno Marchou^[3], Hans Lassmann^[2], Lennart Mars^[4], Roland Liblau^[4]

- ^[1]INSERM U-563, Centre de Physiopathologie Toulouse-Purpan, Toulouse University III, Paul Sabatier and Infectious and tropical diseases department, Toulouse University Hospital ~ Toulouse ~ France - ^[2]Center for Brain Research, Medical University of Vienna ~ Vienna ~ Austria - ^[3]Infectious and tropical diseases department, Toulouse University Hospital ~ Toulouse ~ France - ^[4]INSERM U-563, Centre de Physiopathologie Toulouse-Purpan, Toulouse University III, Paul Sabatier ~ Toulouse ~ France

53 - INTERMITTENT PLASMAPHERESIS PREVENTS RECURRENCE IN NEUROMYELITIS OPTICA

Katsuichi Miyamoto^{*[1]}, Susumu Kusunoki^[1]

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

461 - NATALIZUMAB TREATMENT ON MULTIPLE SCLEROSIS PATIENTS: EFFECTS ON REGULATORY T CELLS AND CYTOKINE SERUM LEVELS

Jaime Ramos-Cejudo^{*[2]}, Celia Oreja-Guevara^[1], Luiz Stark^[2], L Gabaldón Torres^[1], M Martín-Barriga^[3], M J Aguilar-Amat^[1], E Díez-Tejedor^[1]

- ^[1]Neurology Unit, La Paz University Hospital ~ Madrid ~ Spain - ^[2]Research Unit, La Paz University Hospital ~ Madrid ~ Spain - ^[3]Neurology Unit, Gregorio Marañón Hospital ~ Madrid ~ Spain

91 - PATTERN OF MILD COGNITIVE IMPAIRMENT IN PATIENTS WITH PRIMARY SJÖGREN'S SYNDROME AS COMPARED TO PATIENTS WITH SLE

Stian Stangeland Maroni^[6], Kolbjørn Brønne^[2], Erna Harboe^[3], Lasse G Gøransson^[3], Roald Omdal^[3]

- ^[2]Norwegian Center for Movement Disorders, Stavanger University Hospital ~ Stavanger ~ Norway - ^[3]Clinical Immunological Unit., Department of Internal Medicine., Stavanger University Hospital ~ Stavanger ~ Norway - ^[6]Clinical Neuropsychological Unit., Department of Psychiatry, Stavanger University Hospital ~ Stavanger ~ Norway

408 - PREDICTING CLINICAL DISABILITY IN MULTIPLE SCLEROSIS BASED ON STRUCTURAL MRI

Kerstin Hackmack^{*[1]}, Martin Weygandt^[1], Caspar Pfueller^[2], Judith Bellmann-Strobl^[2], Friedemann Paul^[2], John-Dylan Haynes^[1]

- ^[1]Bernstein Center for Computational Neuroscience ~ Berlin ~ Germany - ^[2]Charité - University Medicine ~ Berlin ~ Germany

401 - PREVALENCE AND RISK FACTORS OF CHRONIC KIDNEY DISEASE IN JAPANESE MYASTHENIA GRAVIS PATIENTS

Shingo Konno^{*[1]}, Hisao Kitazono^[1], Mayumi Murata^[1], Hiroshi Nakazora^[1], Nobuatsu Nomoto^[1], Hideki Sugimoto^[1], Hiroshi Nemoto^[1], Toshiki Fujioka^[1]

- ^[1]Division of Neurology, Department of Internal Medicine Toho University Ohashi Medical Center ~ Tokyo ~ Japan



**100 - QUANTITATIVE ANALYSIS OF ANTI-AQUAPORIN4 ANTIBODY
IN NEUROMYELITIS OPTICA**

Masaru Matsui^{*[1]}, Kiyoe Ohta^[1], Keiko Tanaka^[2], Masayuki Tahara^[1], Mitsuhiro Ohta^[4], Masami Tanaka^[1], Tetsuro Konishi^[1]

- ^[1]Utano National Hospital ~ Kyoto ~ Japan - ^[2]Kanazawa Medical University ~ Kanazawa ~ Japan - ^[4]Kobe Pharmaceutical University ~ Kobe ~ Japan

558 - SEARCH FOR NOVEL AUTOANTIBODIES IN MULTIPLE SCLEROSIS

Atsuro Chiba^{*[1]}, Ayumi Uchibori^[1], Chizuko Ohishi^[1], Tai Miyazaki^[1]

- ^[1]Kyorin University ~ Tokyo ~ Japan

**242 - SEMA4A IS A SERUM DIAGNOSTIC MARKER OF MULTIPLE SCLEROSIS,
WHICH REFLECTS THE TH17 SHIFT OF PBMC**

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

- ^[1]Osaka University ~ Suita ~ Japan - ^[2]Toyonaka Municipal Hospital ~ Toyonaka ~ Japan - ^[3]Toneyama National Hospital ~ Toyonaka ~ Japan

**8 - SERUM LEVELS OF PROINFLAMMATORY AND ANTIINFLAMMATORY CYTOKINES
IN WOMEN WITH MULTIPLE SCLEROSIS**

Anastasiya Trevova^[1], Marya PHD Manova ^{*[1]}, Ivanka PHD Kostadinova^[1], Mariana PHD Murdjeva^[1], Tonka PHD Vasileva^[1], Zahari Prof. Zahariev^[1]

- ^[1]Medical University-Plovdiv ~ Plovdiv ~ Bulgaria

**137 - SUBSTRATE REDUCTION THERAPY AS A NOVEL THERAPEUTIC STRATEGY FOR
GUILLAIN-BARRÉ SYNDROME.**

Kay Greenshields^{*[1]}, Kerri-Lee Wallom^[2], John Riddell^[1], Julia Edgar^[1], Frances Platt^[2], Hugh Willison^[1]

- ^[1]University of Glasgow ~ Glasgow ~ United Kingdom - ^[2]Oxford University ~ Oxford ~ United Kingdom

**676 - LOW PRODUCTION AND DEFECTIVE REGULATION OF NOGGIN MRNA IN
IMMUNE CELLS OF RR-MS PATIENTS**

Natali Urshansky^[1], Karin Mausner-Fainberg^[1], Eitan Auriel^[1], Keren Regev^[1], Arnon Karni^{*[1]} -

^[1]Department of Neurology, Tel Aviv Sourasky Medical Center

Sackler's Medical School, Tel Aviv University

**675 - LOW SECRETION AND EXPRESSION OF FOLLISTATIN BY IMMUNE CELLS OF
PATIENTS WITH RR-MS**

Natali Urshansky^[1], Karin Mausner-Fainberg^[1], Eitan Auriel^[1], Keren Regev^[1], Arnon Karni^{*[1]} -

^[1]Department of Neurology, Tel Aviv Sourasky Medical Center

Sackler's Medical School, Tel Aviv University



Poster Session 21Poster Hall13.30 – 15.00
Brain tumors and paraneoplastic syndromes

565 - ANTI-YO AND ANTI-HU ANTIBODIES AFFECT DIFFERENT NEURONAL POPULATIONS AND INDUCE CELL DEATH BY DIFFERENT MECHANISMS IN RAT CEREBELLAR SLICE CULTURES

John E. Greenlee*^[1], Susan A. Clawson^[2], Kenneth E. Hill^[2], Blair L. Wood^[2], Tsunoda Ikuo^[3], Noel G. Carlson^[1]

- ^[1]Veterans Affairs Medical Center and University of Utah ~ Salt Lake City ~ United States - ^[2]University of Utah ~ Salt Lake City ~ United States - ^[3]Louisiana State University Health Sciences Center ~ Shreveport ~ United States

342 - EX VIVO CULTURED LPS/IFNG-STIMULATED MICROGLIA DISPLAY INCREASED LYTIC ACTIVITY AGAINST GL261 GLIOBLASTOMA IN VITRO AND IN VIVO.

Tambuyzer Bart*^[1], Pauwels Patrick^[2], Berneman Zwi^[1], Ponsaerts Peter^[1]

- ^[1]Laboratory of Experimental Hematology, Vaccine and Infectious Disease Institute, University of Antwerp. ~ Antwerp ~ Belgium - ^[2]Laboratory of Pathology, University of Antwerp. ~ Antwerp ~ Belgium

105 - FREQUENCY OF GABAB RECEPTOR ANTIBODIES IN LIMBIC ENCEPHALITIS AND GAD ANTIBODY-ASSOCIATED NEUROLOGICAL DISORDERS

Ana Boronat*^[1], Lidia Sabater^[1], Albert Saiz^[2], Josep Dalmau^[3], Francesc Graus^[2]

- ^[1]Fundació Clinic ~ Barcelona ~ Spain - ^[2]Hospital Clinic, Universitat de Barcelona, Institut d'Investigació Biomèdica August Pi i Sunyer (IDIBAPS) ~ Barcelona ~ Spain - ^[3]University of Pennsylvania ~ Philadelphia ~ United States

412 - HUMAN GLIOBLASTOMA MULTIFORME CELLS RELEASE IMMUNOGENIC SIGNALS AFTER TREATMENT WITH IONISING RADIATION OR CHEMOTHERAPEUTIC AGENTS

Francesca Pasi*^[1], Angelica Facchetti^[2], Benjamin Frey^[3], Udo S. Gaipf^[3], Rosanna Nano^[1]

- ^[1]University of Pavia ~ Pavia ~ Italy - ^[2]Fondazione Centro di Adroterapia Oncologica ~ Pavia ~ Italy - ^[3]Radiation Oncology Department, University of Erlangen-Nurnberg ~ Erlangen ~ Germany

303 - IL4-INDUCED EPIGENETIC MODIFICATIONS BLOCK TLR-INDUCED RESPONSES IN MICROGLIA AND CONVERTS THEM INTO TOLEROGENIC ANTIGEN PRESENTING CELLS

Ella Zuidervijk-Sick^[1], Céline van der Putten^[1], Erica Pasini^[2], Hedwich Kuipers^[3], Marja van Eggermond^[4], Linda van Straalen^[1], Ivanela Kondova^[5], Paul van der Valk^[3], Sandra Amor^[3], Peter van den Elsen^[3], Jeffrey Bajramovic*^[1]

- ^[1]Biomedical Primate Research Centre, Alternatives Unit ~ Rijswijk ~ Netherlands - ^[2]Biomedical Primate Research Centre, Department of Parasitology ~ Rijswijk ~ Netherlands - ^[3]VU University Medical Center, Department of Pathology ~ Amsterdam ~ Netherlands - ^[4]Leiden University Medical Center, Department of Immunohematology and Blood Transfusion ~ Leiden ~ Netherlands - ^[5]Biomedical Primate Research Centre, Animal Science Department ~ Rijswijk ~ Netherlands

254 - PARANEOPLASTIC YO ANTIBODIES ARE NOT RELATED TO THE PRESENCE OF CEREBELLAR DEGENERATION-ASSOCIATED CDR2 ANTIGEN IN OVARIAN CANCER

Cecilie Totland*^[1], Nina K. Aarskog^[1], Mette Haugen^[1], Jane K. Nøstbakken^[1], Sissel E. Monstad^[1], Helga B. Salvesen^[2], Sverre Mørk^[3], Bjørn I. Haukanes^[5], Christian A. Vedeler^[6]

- ^[1]Department of Neurology, Haukeland University Hospital ~ Bergen ~ Norway - ^[2]Department of Gynaecology, Haukeland University Hospital ~ Bergen ~ Norway - ^[3]Gades Institute, University of Bergen, Norway ~ Bergen ~ Norway - ^[5]Center for Medical Genetics and Molecular Medicine, Haukeland University Hospital ~ Bergen ~ Norway - ^[6]Department of Clinical Medicine, University of Bergen ~ Bergen ~ Norway



586 - RAPID INVOLVEMENT OF ARM AND BULBAR MUSCLES RAISES SUSPICION FOR SMALL CELL LUNG CANCER IN THE LAMBERT-EATON MYASTHENIC SYNDROME

Maarten Titulaer^{*[1]}, Paul Maddison^[2], Jaap Sont^[1], Paul Wirtz^[3], David Hilton-Jones^[4], Nick Willcox^[4], Peter Sillevs Smitt^[5], Angela Vincent^[4], Sylvère Van der Maarel^[1], Bethan Lang^[4], Jan Verschuuren^[1]

- ^[1]Leiden University Medical Center ~ Leiden ~ Netherlands - ^[2]Queens Medical Centre ~ Nottingham ~ United Kingdom - ^[3]Haga Hospital ~ The Hague ~ Netherlands - ^[4]John Radcliffe Hospital ~ Oxford ~ United Kingdom - ^[5]Erasmus Medical Center ~ Rotterdam ~ Netherlands

81 - SENSORY DISTURBANCES IN IMMUNE-MEDIATED K⁺ CHANNELOPATHY

Osamu Watanabe^{*[1]}, Kimisuyoshi Arimura^[1], Yoshiharu Takata^[1], Kumiko Michizono^[1], Eiji Matsuura^[1], Yoshihisa Yamano^[2], Hiroshi Takashima^[1]

- ^[1]Kagoshima University ~ Kagoshima ~ Japan - ^[2]St.Marianna Medical College ~ Kawasaki ~ Japan

216 - STATE OF PROTEIN B23/NUCLEOPHOSMIN IN NORMAL AND TUMOR BRAIN CELLS

Natalya Vladimirova^{*[1]}, Natalya Potapenko^[1], Julya Sizenova^[1], Oxana Zharskaya^[1], Olga Zatsepina^[1], Olga Volpina^[1]

- ^[1]Shemyakin-Ovchinnikov Institute of Bioorganic Chemistry, Russian Academy of Sciences ~ Moscow ~ Russia

618 - MGLUR1 AND MGLUR3 RECEPTORS AND COMPLEMENT IN INFLAMMATORY AND PAARNEOPLASTIC ENCEPHALITIS:CLINICAL IMPORTANCE AND APPLICATION IN FUTURE CLINICAL AREAS (TODAY'S AND NOWADAYS)

Sabino Guillermo Echebarria Mendieta^{*[1]}

- ^[1]Dept. Neurology Area, Basque Health Service, Osakidetza H. San Eloy, Barakaldo-Bizkaia, District Clinics, Spain



Workshop 15.....Auditorium
Neuroinflammation in neurological diseases III

Chair: S. Khoury and M. Kerschensteiner

418 - SIGNALING BY HMGB1 AND RAGE IN SKELETAL MUSCLE IS PIVOTAL FOR INFLAMMATION-INDUCED ACCUMULATION OF BETA-AMYLOID IN SPORADIC INCLUSION BODY MYOSITIS

Ingrid E. Muth^{*[1]}, Konstanze Barthel^[1], Reinhard Volz^[2], Kathrin Traufeller^[3], Mathias Bähr^[1], Jens Schmidt^[1]15.00
- ^[1]University Medical Centre Göttingen ~ Göttingen ~ Germany - ^[2]Nikolaus-Fiebiger-Center of Molecular Medicine ~ Erlangen ~ Germany - ^[3]University Hospital Halle/Saale ~ Halle/Saale ~ Germany

425 - THE ROLES OF NOGO RECEPTOR-MEDIATED INTERACTIONS IN AUTOIMMUNE INFLAMMATION IN EXPERIMENTAL AUTOIMMUNE ENCEPHALOMYELITIS

Karin Steinbach^{*[3]}, Claire MacDonald^[1], Markus Reindl^[1], Christine Bandtlow^[2], Roland Martin^[3] .15.15
- ^[1]Neurological Research Laboratory, Innsbruck Medical University ~ Innsbruck ~ Austria - ^[2]Section Neurobiochemistry, Innsbruck Medical University ~ Innsbruck ~ Austria - ^[3]Institute for Neuroimmunology and clinical MS-research (inims), ZMNH ~ Hamburg ~ Germany

574 - NINJURIN-1 CONTROLS THE RECRUITMENT OF MYELOID ANTIGEN-PRESENTING CELLS INTO THE CNS AND THE DEVELOPMENT OF NEUROINFLAMMATION

Hania Kebir^{*[1]}, Igal Ifergan^[1], Simone Terouz^[1], Jorge Ivan Alvarez^[1], Marc-André Lécuyer^[1], Ildiko Dunay^[2], Marco Prinz^[2], Adriano Fontana^[3], Thomas Birchler^[3], Alexandre Prat^[1]15.30
- ^[1]CHUM-Notre-Dame Hospital ~ Montreal ~ Canada - ^[2]University of Freiburg ~ Freiburg ~ Germany - ^[3]University Hospital Zurich ~ Zurich ~ Switzerland

613 - THE ROLE OF TUMOR NECROSIS FACTOR-RELATED APOPTOSIS INDUCING LIGAND (TRAIL) IN MEDIATING MUSCLE FIBER DAMAGE IN MYOSITIS

Heather M. Alger^[1], Nina Raben^[2], Emilio Pistilli^[3], Dwight Francia^[1], Rashmi Rawat^[4], Derese Getnet^[5], Paul Plotz^[2], Svetlana Ghimbovski^[1], Yi-Wen Chen^[1], Ingrid Lundberg^[6], Kanneboyina Nagaraju^{*[1]} ...
.....15.45
- ^[1]Department of Genetic Medicine, Children's National Medical Center, Washington DC - ^[2]National Institutes of Arthritis and Musculoskeletal and Skin Diseases, National Institute of Health, Bethesda, USA - ^[3]The Pennsylvania Muscle Institute, University of Pennsylvania, Philadelphia, USA - ^[4]U.S. Food and Drug Administration, Silver Spring, USA - ^[5]Johns Hopkins University, Baltimore, US - ^[6]Rheumatology Unit, Department of Medicine, Karolinska University Hospital Solna, Stockholm, Sweden

599 - SELECTIVE BLOCKADE OF SOLUBLE TUMOUR NECROSIS FACTOR SIGNALING AMELIORATES EXPERIMENTAL AUTOIMMUNE ENCEPHALOMYELITIS IN MICE

Era Taoufik^{*[1]}, Vivian Tseveleki^[1], Hans Lassman^[2], David Szymkowski^[3], Lesley Probert^[1]16.00
- ^[1]Laboratory of Molecular Genetics, Hellenic Pasteur Institute, Hellas, Greece - ^[2]Division of Neuroimmunology, Brain Research Institute, Vienna, Austria - ^[3]Xencor Inc., Monrovia, CA, USA

600 - CASPASE 8 MEDIATES NEURON DEATH FOLLOWING IN VIVO AND IN VITRO EXCITOTOXIC INJURY

Era Taoufik^{*[1]}, Tae-Bong Kang^[2], David Wallach^[2], Lesley Probert^[1]16.15
- ^[1]Laboratory of Molecular Genetics, Hellenic Pasteur Institute, Hellas, Greece - ^[2]Department of Biological Chemistry, the Weizmann Institute of Science, Israel



**Workshop 16.....Tramuntana 2
Therapies II**

Chairs: A. Prat and L. Steinman

**92 - SELECTIVE INHIBITION OF SOLUBLE TNF IS THERAPEUTIC IN MOG-INDUCED
EXPERIMENTAL AUTOIMMUNE ENCEPHALOMYELITIS BY PROMOTING AXONAL
PRESERVATION AND REMYELINATION**

Roberta Brambilla^{*[1]}, Jessica Ashbaugh^[1], Anna Dellarole^[1], Shaffiat Karmally^[1], David E. Szymkowski^[2],
John R. Bethea^[1] 15.00
^[1]Miller School of Medicine, University of Miami ~ Miami ~ United States - ^[2]Xencor ~ Monrovia ~ United States

**60 - NEUROPROTECTIVE ACTIVITY OF METHYLTHIOADENOSINE FOR
THE TREATMENT OF MULTIPLE SCLEROSIS AND OTHER NEUROLOGICAL DISEASES**

Pablo Villoslada^[1], Alessandra Di Penta^[1], Martín Kerschensteiner^[2], Carlos Matute^[3], Valentín Ceña^[4],
Iciar Lopez^[5], Jordi Alberch^[6], Jack Parent^[7], Jordi Serra^[8], Oihana Errea^[1], Beatriz Moreno^{*[1]} 15.15
^[1]Department of Neuroscience. Institut of Biomedical Research August Pi Sunyer (IDIBAPS), Hospital Clinic of Barcelona ~ Barcelona
~ Spain - ^[2]University of Munich ~ Munich ~ Germany - ^[3]University of Basque Country ~ Bilbao ~ Spain - ^[4]University of Castilla la
Mancha ~ Albacete ~ Spain - ^[5]CIMA-University of Navarra ~ Pamplona ~ Spain - ^[6]University of Barcelona ~ Barcelona ~ Spain -
^[7]University of Michigan ~ Detroit ~ United States - ^[8]Neuroscience Technologies ~ Barcelona ~ Spain

**150 - ARE VASCULAR INFLAMMATORY EVENTS RESPONSIBLE FOR SIDE-EFFECTS
ASSOCIATED WITH ABETA IMMUNOTHERAPY IN ALZHEIMER'S DISEASE?**

Delphine Boche^{*[1]}, William Morgan^[1], Clive Holmes^[1], James W Neal^[2], Elina Zotova^[1], James A Nicol^[1] 15.30
^[1]University of Southampton ~ Southampton ~ United Kingdom - ^[2]University of Wales ~ Cardiff ~ United Kingdom

**165 - IMMUNOTHERAPY OF STROKE AND COGNITION IN CEREBROVASCULAR
AMYLOIDOSIS MODEL**

Veronica Lifshitz^[1], Tali Benromano^[1], Einat Kfir^[1], Tamar Blumenfeld-Katzir^[1], Catherine Tempel-
Brami^[1], Yaniv Assaf^[1], Weiming Xia^[2], Tony Wyss-Coray^[3], Howard L. Weiner^[2], Dan Frenkel^{*[1]} 15.45
^[1]Tel Aviv University ~ Tel Aviv ~ Israel - ^[2]Harvard University ~ Boston ~ United States - ^[3]Stanford University School of Medicine ~
Stanford ~ United States

**248 - ORAL ADMINISTRATION OF THE NITROXIDE RADICAL TEMPOL PROTECTS
FROM DISEASE IN ANIMAL MODELS OF MS**

Jacqueline Quandt^{*[1]}, Jaebong Huh^[2], Jeeva Munasinghe^[3], Fuminori Hyodo^[4], Grenye O'Malley^[2],
Xinhui Li^[2], Christopher Dharmaraj^[4], Murali Cherukari^[4], James Mitchell^[4], Henry McFarland^[2] ... 16.00
^[1]University of British Columbia, Department of Pathology & Laboratory Medicine ~ Vancouver ~ Canada - ^[2]Neuroimmunology Branch,
National Institutes of Health ~ Bethesda ~ United States - ^[3]Molecular Imaging Facility, NIH ~ Bethesda ~ United States - ^[4]Radiation
Oncology Branch, NIH ~ Bethesda ~ United States

**279 - METABOLIC INTERVENTION WITH PANTETHINE INHIBITS EXPERIMENTAL
AUTOIMMUNE ENCEPHALOMYELITIS**

Stefano Angiari^{*[1]}, Simone D. Bach^[1], Simona Budui^[1], Barbara Rossi^[1], Elena Zenaro^[1], Enrica
Pietronigro^[1], Alessandro Battistella^[1], Vittorina Della Bianca^[1], Gabriela Constantin^[1] 16.15
^[1]Department of Pathology and Diagnostics, Division of General Pathology, University of Verona ~ Verona ~ Italy

Friday October 29th, 2010 - Workshop 16



Friday October 29th, 2010 - Workshop 7-18

Workshop 17.....Tramuntana 3

B cells and antibodies

Chairs: G. Martino and A. Uccelli

263 - A GLYCOLIPIDOMIC APPROACH REVEALS THAT OLIGOCLONAL BANDS IN MULTIPLE SCLEROSIS RECOGNIZE HETERODIMERIC MYELIN LIPID COMPLEXES

Kathryn Brennan^{*[1]}, Francesc Galban-Horajo^[1], Simon Rinaldi^[1], Colin O'Leary^[1], Carl Goodyear^[1], Gabriela Kalna^[1], Ariel Arthur^[1], Christina Elliot^[1], Jeffrey Bennett^[2], Susan Barnett^[1], Christopher Lington^[1], Gregory Owens^[2], Hugh Willison^[1] 15.00
^[1]University of Glasgow ~ Glasgow ~ United Kingdom - ^[2]University of Colorado School of Medicine ~ Aurora ~ United States

284 - NEURONAL SURFACE ANTIBODIES IN CEREBELLAR SYNDROMES

Luigi Zuliani^{*[1]}, Esther Becker^[1], Luis Batailler^[2], Bruno Giometto^[3], Francesc Graus^[4], Neil Robertson^[5], Bethan Lang^[1], Angela Vincent^[1] 15.15
^[1]University of Oxford ~ Oxford ~ United Kingdom - ^[2]Hospital Universitari la Fe ~ Valencia ~ Spain - ^[3]Ospedale Ca' Foncello Azienda ULSS 9 ~ Treviso ~ Italy - ^[4]Hospital Clinic ~ Barcelona ~ Spain - ^[5]University Hospital of Wales ~ Cardiff ~ United Kingdom

391 - CXCR3 DEPENDENT RECRUITMENT OF PLASMA BLASTS DURING VIRAL CNS INFECTION

Cristina Marques^[1], Steve Stohlman^[1], David Hinton^[2], Cornelia Bergmann^{*[1]} 15.30
^[1]Cleveland Clinic Foundation ~ Cleveland ~ United States - ^[2]University of Southern California ~ Los Angeles ~ United States

Workshop 18.....Tramuntana 3

Stem cells

Chairs: G. Martino and A. Uccelli

275 - SELECTIVE KILLING OF NEURAL STEM/PRECURSOR CELLS IN HEALTHY AND EAE-AFFECTED ADULT MICE.

Erica Butti^{*[1]}, Cinzia Marinaro^[1], Elena Brambilla^[1], Francesca Ruffini^[1], Giancarlo Comi^[2], Luca Muzio^[1], Gianvito Martino^[1] 15.45
^[1]Neuroimmunology Unit, San Raffaele Scientific Institute ~ Milan ~ Italy - ^[2]Institute of Experimental Neurology (INSPE), Vita-Salute University, San Raffaele Scientific Institute ~ Milan ~ Italy

326 - ASPM IN THE NEURAL STEM CELLS NICHE OF THE EMBRYONIC AND ADULT BRAIN

Cinzia Marinaro^{*[1]}, Erica Butti^[1], Andrea Bergamaschi^[1], Giancarlo Comi^[1], Gianvito Martino^[1], Luca Muzio^[1] 16.00
^[1]SAN RAFFAELE SCIENTIFIC INSTITUTE ~ MILAN ~ Italy

398 - HUMAN MSCS SUPPRESS NEURONAL CELL DEATH AFTER ISCHEMIA BY ANTI-INFLAMMATION

Hirokazu Ohtaki^{*[1]}, Joni Ylostalo^[2], Dandan Song^[1], Natsuki Kobayashi^[1], Darwin J. Prockop^[2], Seiji Shioda^[1] 16.15
^[1]Department of Anatomy, Showa University School of Medicine ~ Tokyo ~ Japan - ^[2]Texas A&M Health Science Center, College of Medicine, Institute for Regenerative Medicine at Scott & White ~ Temple, TX ~ United States



Workshop 19Llevant

Innate immune system

Chairs: I. Campbell and M. Schwartz

203 - BLOOD-DERIVED MACROPHAGES ARE VITAL FOR RESOLUTION OF LOCAL MICROGLIAL RESPONSE FOLLOWING SPINAL CORD INJURY

Ravid Shechter^{*[1]}, Anat London^[1], Chen Varol^[1], Catarina Raposo^[1], Melania Cusimano^[2], Gianvito Martino^[2], Steffen Jung^[1], Michal Schwartz^[1]15.00
^{*}[1]The Weizmann Institute of Science ~ Rehovot ~ Israel - [2]San Raffaele Scientific Institute ~ Milan ~ Italy

251 - NO GENDER DIFFERENCES IN NEUTROPHIL EXTRACELLULAR TRAP FORMATION

Kati Tillack^{*[1]}, Mireia Sospedra^[1]15.15
^{*}[1]Institute for Neuroimmunology and Clinical Multiple Sclerosis Research (inims^{*}); Center for Molecular Neurobiology Hamburg; University Medical Center Hamburg-Eppendorf ~ Hamburg ~ Germany

455 - ADENOSINE A3 RECEPTOR-MEDIATED SIGNALING IS REQUIRED TO TRIGGER TLR-INDUCED IL12P40 PRODUCTION IN MICROGLIA

Celine van der Putten^{*[1]}, Jennifer Veth^[1], Ella A. Zuiderwijk-Sick^[1], Linda van Straalen^[1], Ivanela Kondova^[2], Ad P. IJzerman^[3], Johannes M. van Noort^[4], Jeffrey J. Bajramovic^[1]15.30
^{*}[1]Alternatives Unit, Biomedical Primate Research Centre ~ Rijswijk ~ Netherlands - [2]Animal Science Department, Biomedical Primate Research Centre ~ Rijswijk ~ Netherlands - [3]Division of Medicinal Chemistry, Leiden/Amsterdam Center for Drug Research ~ Leiden ~ Netherlands - [4]Delta Crystallon BV ~ Leiden ~ Netherlands

544 - TOLL-LIKE RECEPTOR 3 IS CRITICAL FOR THE DEVELOPMENT OF TMEV-INDUCED DEMYELINATING DISEASE

D'Anne Duncan^{*[1]}, Stephen Miller^[1]15.45
^{*}[1]Northwestern University School of Medicine ~ Chicago ~ United States

601 - ESTROGEN AND BRAIN INFLAMMATION

E. Vegeto^{*[1]}, A. Maggi^[1]16.00
^{*}[1]Centre of Excellence on Neurodegenerative Diseases, University of Milan, Italy

Workshop 20Llevant

Neurodegeneration

Chairs: I. Campbell and M. Schwartz

145 - NGF-LIKE SMALL MOLECULES PLAY A PROTECTIVE ROLE IN NEURODEGENERATIVE DISORDERS: IN VITRO AND IN VIVO APPLICATION

Valeria Colafrancesco^{*[1]}, Beatriz Moreno^[1], Gloria Navarro Venrell^[2], Begona Fernandez Diez^[1], Nagore Escala Solans^[1], Angel Messeguer^[2], Pablo Villoslada^[1]16.15
^{*}[1]Idibaps ~ Barcelona ~ Spain - [2]Iiqab ~ Barcelona ~ Spain

Friday October 29th, 2010 - Workshop 19-20



Friday October 29th, 2010 - Workshop 21-22- Training 4

Workshop 21.....Mestral

Clinical research

Chairs: F. Graus and S. Van Gool

16 - ANTI-ALKALINE PHOSPHATASE ANTIBODY POSITIVE MYASTHENIA GRAVIS

Tetsuro Konishi^{*[1]}, Kiyoe Ohta^[1], Mitsuhiro Ohta^[3], Kazuhiro Shigemoto^[2]15.00
- ^[1]Utano National Hospital ~ Kyoto ~ Japan - ^[2]Tokyo Metropolitan Institute of Gerontology ~ Tokyo ~ Japan - ^[3]Kobe Pharmaceutical University ~ Kobe ~ Japan

286 - CHARACTERIZATION OF THE CD4+ T CELL RESPONSE AGAINST JC VIRUS IN MULTIPLE SCLEROSIS PATIENTS AND HEALTHY CONTROLS: MAPPING OF IMMUNODOMINANT PEPTIDES

Aly Lilian^{*[1]}, Jelcic Ilijas^[1], Schippling Sven^[1], Bofill-Mas Sílvia^[2], Breiden Petra^[1], Demina Victoria^[3], Girones Rosina^[2], Weber Thomas^[4], Sospedra Mireia^[1], Martín Roland^[1]15.15
- ^[1]Institute for Neuroimmunology and Clinical Multiple Sclerosis Research (inims) ~ Hamburg ~ Germany - ^[2]Department of Microbiology, Faculty of Biology, University of Barcelona ~ Barcelona ~ Spain - ^[3]Life-Science-Incubator ~ Bonn ~ Germany - ^[4]Department of Neurology, Marienhospital Hamburg ~ Hamburg ~ Germany

374 - HLA-DRB1 CONFERS INCREASED RISK OF PEDIATRIC-ONSET MS IN CHILDREN WITH ACQUIRED DEMYELINATION

Amit Bar-Or^{*[1]}, Giulio Disanto^[2], Sandra Magalhães^[1], Adam Handel^[2], Katie M. Morrison^[2], A. Dessa Sadovnick^[4], George C. Ebers^[2], Banwell Brenda^[5]15.30
- ^[1]McGill University ~ Montreal, Quebec ~ Canada - ^[2]Wellcome Trust Centre for Human Genetics; Department of Clinical Neurology, University of Oxford, ~ Oxford ~ United Kingdom - ^[4]Department of Medical Genetics and Faculty of Medicine, Division of Neurology, University of British Columbia ~ Vancouver, BC ~ Canada - ^[5]Department of Paediatrics, Division of Neurology, The Hospital for Sick Children, University of Toronto. ~ Toronto, Ontario ~ Canada

Workshop 22.....Mestral

Brain tumors and paraneoplastic syndromes

Chair: F. Graus and S. Van Gool

523 - ANTIVIRAL NK RESPONSE LIMITS EFFICACY OF ONCOLYTIC VIRAL THERAPY FOR GLIOBLASTOMA

Christopher Alvarez-Breckenridge^{*[2]}, Jianhua Yu^[1], Alessandro Moretta^[3], Balveen Kaur^[1], Michael Caligiuri^[1], Ennio Antonio Chiocca^[1]15.45
- ^[1]The Ohio State University ~ Columbus ~ United States - ^[2]The Ohio State University ~ Columbus ~ United States - ^[3]University of Genova ~ Genova ~ Italy

547 - IMMUNOREGULATION IN GLIOBLASTOMA

Nasr Farooq^[1], Manjit Braitch^[1], Gareth Ball^[1], Angela Fahey^[1], Richard Grundy^[1], Cris Constantinescu^{*[1]}16.00
- ^[1]Nottingham University ~ Nottingham ~ United Kingdom

570 - HUMAN GLIOBLASTOMA CANCER PRECURSOR CELLS ALTER CD14 MONOCYTE FUNCTION THROUGH CD200 LIGAND EXPRESSION.

Mike Sabbagh^{*[1]}, Igal Ifergan^[1], Robert Moumdjian^[1], Josephine Nalbantoglu^[2], Alexandre Prat^[1] 16.15
- ^[1]University of Montreal ~ Montreal ~ Canada - ^[2]McGill University ~ Montreal ~ Canada

TEA BREAK16.30 – 17.00

Training 4Tramuntana 2

How to build a successful career in Neuroimmunology

R. Hohlfeld, Maximilian University, Munich, Germany17.00 – 18.00

S. Hauser, University of California, USA



Saturday October 30th, 2010

Concurrent Symposia 10.....Auditorium

Pathology of Neuroimmunological diseases

Chair: W. Brück

636 - PATHOLOGY OF MULTIPLE SCLEROSIS

Wolfgang Brück08.30
University Medical Centre Göttingen ~ Göttingen ~ Germany

627 - ENCEPHALITIS AND EPILEPSY

Christian Bien09.00
University of Bonn, Dept. of Epileptology ~ Bonn ~ Germany

671 - THE PATHOLOGY OF AQUAPORIN-4 AUTOIMMUNITY

Claudia F. Lucchinetti09.30
Mayo Clinic, College of Medicine, Rochester, MN, United States

COFFEE BREAK.....10.00 – 10.30

Lecture 4.....Auditorium

The Neurobiology Lecture:.....10.30

658 – GLIAL SUPPORT OF AXON FUNCTION: RELEVANCE TO DISEASE

Klaus Nave, Max Planck Institute for Experimental Medicine, Göttingen, Germany

Plenary Symposium 4.....Auditorium

Autoimmune response against neuronal receptors

Chair: J. Dalmau

624 - NEURONAL ACETYLCHOLINE RECEPTOR AUTOIMMUNITY

Steven Vernino11.30
University of Texas Southwestern Medical Center ~ Dallas ~ United States

628 - CLINICAL SPECTRUM OF AUTOIMMUNITY TO NMDA AND OTHER SYNAPTIC RECEPTORS

Josep Dalmau12.10
University of Pennsylvania ~ Philadelphia ~ United States

625 - CELLULAR AND SYNAPTIC MECHANISMS OF ANTI-GLUTAMATE RECEPTOR ENCEPHALITIS

Rita Balice-Gordon12.50
University of Pennsylvania School of Medicine ~ Philadelphia, Pennsylvania ~ United States

Closing remarksAuditorium

Tomas Olsson – New ISNI President13.30

FAREWELL LUNCH13.45

PLENARY

Saturday October 30th, 2010 - Concurrent Symposia 10

Organising Secretariat



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1. Freedman MS, Kappos L, Polman CH, et al. Impact of Early Interferon beta-1b Treatment on Disease Evolution Over 5 Years in Patients with a First Event Suggestive of Multiple Sclerosis. WCTRIMS, 17-20 Sep de 2008, Montreal, Canadá.

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