

Poster programme

Poster session 1

12:30-14:00 Friday November 16, 2018

Room: Mercurio and Neptuno

- [P1.01] **Characterization of immunomodulatory response of glial cells in parkinsonian mice**
M.A. Abellanas^{*1,2}, E. Rojo-Bustamante^{1,2}, M. Zamarbide^{1,2}, E. Luquin², E. Mengual², S. Hervas-Stubbs^{1,3}, M.S. Aymerich^{1,2}, ¹Center for Applied Medical Research, Spain, ²Universidad de Navarra, Spain, ³IdiSNA, Spain
- [P1.02] **Immune-mediated classes and mental disorders: An epidemiological perspective**
V. Ajdacic-Gross^{*1}, M. Mutsch¹, S. Rodgers¹, A. Tesic¹, M. Müller¹, E. Seifritz¹, R. von Känel¹, J. Glaus², C. Vandeleur², M. Preisig², ¹University of Zurich, Switzerland, ²Lausanne University Hospital, Switzerland
- [P1.03] **Myeloid phenotypes differ in stages of HIV-associated neurocognitive disorders (HAND)**
S. Byrnes¹, E. Wanicek¹, T.A. Angelovich^{*1,2}, M.J. Churchill^{1,3}, ¹RMIT University, Australia, ²Burnet Institute, Australia, ³Monash University, Australia
- [P1.04] **GWAS of the association between infections and mental disorders including heritability estimation and polygenic risk score analysis**
R. Nudel², Y. Wang², A.J. Schork², E. Agerbo², T. Werge², M. Nordentoft¹, P.B. Mortensen², A. Buil², W.K. Thomson², M.E. Benros^{*1}, ¹Copenhagen University Hospital, Denmark, ²Aarhus University, Denmark
- [P1.05] **Psychiatric features of individuals seropositive for LGI1 or CASPR2 antibodies - a retrospective case series**
E. Kelleher¹, H. Costello^{*1}, L. Valdearenas¹, R. Howard¹, M. Zandi¹, ¹University College London, UK, ²The National Hospital for Neurology and Neurosciences, UK
- [P1.06] **Peripheral classical and platelet inflammatory markers in depressed suicide attempters**
P. Courtet^{*2}, E. Olié², S. Béziat², A. Cazals², F. Cognasse¹, ¹Université de Lyon, France, ²University of Montpellier, France
- [P1.07] **Immuno-responsive Mast Cell Activation Syndrome and Postural Orthostatic Tachycardia Syndrome Associated with Sjögren Syndrome**
S. Dawit^{*1}, A. White², B.P. Goodman¹, ¹Mayo Clinic, USA, ²Scripps Clinic, USA
- [P1.08] **Immunotherapy and long-term outcome of anti-LGI1 encephalitis: A single-center prospective cohort study**
S. Fan^{*}, H. Guan, H. Ren, X. Xu, Y. Huang, Q. Lu, L. Jin, Y. Yao, L. Cui, Peking Union Medical College Hospital, China
- [P1.09] **The relevance of inflammation for depression: A bibliometric study from 1990 to 2017**
G. Feixas^{*1,2}, I. Cini¹, M.A. López-González², ¹Universitat de Barcelona, Spain, ²Universidad Rey Juan Carlos, Spain
- [P1.10] **Cross-sectional investigation of the contributors of cognitive impairment in HIV+: Function beats structure in understanding the brain mechanism associated with cognitive performance**
A.L. Fernandez-Cruz^{*}, K. Salcin, R. Sanford, L.D. Collins, M.J. Brouillette, N.E. Mayo, L.K. Fellows, McGill University, Canada
- [P1.11] **Altered immunometabolism in unmedicated patients with major depressive disorder**
S. Gamradt¹, H. Hasselmann¹, A. Taenzer¹, J. Nowacki¹, K. Patas², C. Ramien², K. Wingenfeld¹, C. Otte¹, S.M. Gold^{*1,2}, ¹Charite, Germany, ²UK Eppendorf, Germany
- [P1.12] **Fibrinogen, c-reactive protein and high sensitivity-c reactive protein as putative biological markers for depression or anxiety in a very old outpatients population**
M.R. Grigoras^{*1}, V.P. Matei^{2,3}, T. Purnichi⁴, M. Grigoras⁵, ¹Voila Psychiatric Hospital, Romania, ²Carol Davila University of Medicine and Pharmacy, Romania, ³Clinical Hospital of Psychiatry, Romania, ⁴University of Medicine and Pharmacy of Craiova, Romania, ⁵Bucharest Emergency University Hospital, Romania
- [P1.13] **On the day-to-day functional relations between interleukin-6 and mood, irritation and mental activity in a breast cancer survivor**
C. Schubert, C. Hagen^{*}, Medical University Innsbruck, Austria
- [P1.14] **Alpha 2 macroglobulin, cognition, and subjective cognitive decline: A cross-sectional study**
J.R. Hall^{*}, L.A. Johnson, A.R. Wiechmann, S. O'Bryant, University of North Texas Health

Science Center, USA

- [P1.15] **Testosterone masculinizes microglia morphology in the prefrontal cortex and anxious-like behaviour: A fundamental study of an organizational effect**
C. Henriques*, R. Gaspar, I. Almeida, C.A. Fontes-Ribeiro, A.F. Ambrósio, C.A. Gomes, *University of Coimbra, Portugal*
- [P1.16] **Investigating neuroimmune mechanisms of mental disorder using collagen induced arthritis model of rheumatoid disease**
J.W. Herron*¹, M.M. Harnett¹, M.A. Pineda¹, S. Lovestone², J. Cavanagh¹, ¹*University of Glasgow, UK*, ²*University of Oxford, UK*
- [P1.17] **Volatile fatty acids from feces are related to depression**
K.A. Hestad*^{1,2}, K. Rudi^{2,3}, ¹*Innlandet Hospital trust, Norway*, ²*Inland Norway University of Applied Sciences, Norway*, ³*Norwegian University of Life Sciences, Norway*
- [P1.18] **Resolution of inflammation in Alzheimer's disease**
E. Hjorth*, M. Schultzberg, *Karolinska Institutet, Sweden*
- [P1.19] **Delirium in older people with pneumonia is associated with reduced neutrophil migratory function – an observational study**
T. Jackson*^{1,2}, F. Grudzinska¹, C. Welch¹, J. Patel¹, D. Parekh^{1,2}, G. Walton¹, J. Lord¹, D. Thickett^{1,2}, ¹*University of Birmingham, UK*, ²*University Hospitals Birmingham NHS Foundation Trust, UK*
- [P1.20] **Efficacy of anti-inflammatory agents in treatment of schizophrenia and psychosis - a comprehensive systematic review and meta-analysis**
R. Jeppesen*¹, E.M.J. Pedersen¹, O. Köhler-Forsberg^{1,2}, M.E. Benros¹, ¹*University hospital of Copenhagen, Denmark*, ²*Aarhus University, Denmark*
- [P1.21] **Interferon-gamma turns TLR-activated microglia into a neurotoxic phenotype in situ**
S. Schilling, A. Lewen, I.E. Papageorgiou, O. Kann*, *Heidelberg University, Germany*
- [P1.22] **Are ICAM, VCAM and E-selectin levels different in subsequent remission of first manic episode and five years later ?**
S. Kesebir, *Üsküdar University NPIstanbul Brain Hospital, Turkey*
- [P1.23] **Immune predictors of Alzheimer's disease in patients with MCI**
T.P. Kliyushnik*, L.V. Androsova, N.M. Mikhaylova, *Russian Academy of Sciences, Russia*
- [P1.24] **Conditional depletion of brain-derived neurotrophic factor exacerbates inflammatory response in a mouse model of streptococcus pneumoniae meningitis: An experimental study**
L. Li*, S. Zhao, Z. Zhang, *Shanghai Jiaotong University School of Medicine, China*
- [P1.25] **A cohort study of bipolar high/ultra-high risk, inflammatory markers, regional grey matter and cognition**
R. Shao^{1,2}, G. Xu^{1,3}, K. Lin*^{1,3}, ¹*Guangzhou Brain Hospital, China*, ²*University of Hong Kong, Hong Kong*, ³*Guangzhou Medical University, China*, ⁴*Jinan University, China*
- [P1.26] **Revealing interplay between ASC specks and amyloid- β aggregation in human alzheimer's disease brains**
E. Lobanova*, M. Triantafilou, K. Triantafilou, *Cardiff University, UK*
- [P1.27] **Alterations in immune cell frequencies are linked to resting state functional connectivity and memory impairments in methamphetamine dependence: A cross-sectional, observational study**
M. Kohno^{1,2}, E. Huang², M. Huckans^{1,2}, W.F. Hoffman^{1,2}, J.M. Loftis*^{1,2}, ¹*VA Portland Health Care System, USA*, ²*Oregon Health & Science University, USA*
- [P1.28] **VEGF and IL-8 concentrations are associated with a history of childhood trauma in chronic schizophrenia patients: A cross-sectional study**
A. Lubeiro*¹, B. Misiak², M. Krzystek-Korpacka², A. Álvarez-Astorga³, V. Molina^{1,3}, ¹*University of Valladolid, Spain*, ²*Wroclaw Medical University, Poland*, ³*University Hospital of Valladolid, Spain*
- [P1.29] **The ANAPSY study - impact of antineuronal antibodies on clinical outcomes in disorders with psychiatric symptoms: A case control study**
M.A.F. Martins*, N.A. Fernandes, S.S. Carneiro, I.S. Fernandes, *Hospital Distrital de Santarém, Portugal*
- [P1.30] **Amygdala enlargement and emotional responses in (autoimmune) temporal lobe epilepsy**
O. Holtmann, I. Schlossmacher, C. Mönig*, A. Johnen, L-M. Rütter, J-G. Tenberge, P. Schiffler, J. Everding, K-S. Golombek, C. Strippel, *University of Münster, Germany*
- [P1.31] **Evaluation of the cytokines effects on neural progenitor cells proliferation and differentiation in adult Balb/c mice**
A.D. Moroni*¹, A.M. Genaro^{2,3}, M.L. Palumbo¹, ¹*UNNOBA, Argentina*, ²*UCA Instituto de investigaciones biomedicas, Argentina*, ³*UBA, Argentina*

- [P1.32] Association between childhood adversities and the adult onset of comorbid mood and physical disorders**
J. Oliveira*^{1,2}, V. Paixão², G. Cardoso^{1,3}, M. Xavier¹, J.M. Caldas-de-Almeida^{1,3}, A.J. Oliveira-Maia^{1,2}, ¹NOVA Medical School | Faculdade de Ciências Médicas, Universidade Nova de Lisboa, Portugal, ²Champalimaud Centre for the Unknown, Portugal, ³Lisbon Institute of Global Mental Health, Portugal
- [P1.33] Benserazide, a modulator of down-stream kynurenine pathway, attenuated development of metabolic syndrome induced by antipsychotic medication in mouse model: Potential translation into clinical practice**
G. Oxenkrug*, P. Summergrad, Tufts University, USA
- [P1.34] Diazoxide differentially reduces microglial activation in the oculomotor, hypoglossal and facial nucleus after acute injury in mice**
B. Nógrádi^{1,2}, R. Patai*¹, V. Meszlényi^{1,2}, T.F. Polgár¹, L. Siklós¹, ¹Biological Research Centre of the Hungarian Academy of Sciences, Hungary, ²Szeged Scientists Academy, Hungary
- [P1.35] Infections of the central nervous system as a risk factor for mental disorders and cognitive impairment: A nationwide register-based study**
E. Pedersen*¹, O. Köhler-Forsberg¹, M. Nordentoft¹, L. Pedersen², M. Benros¹, ¹University of Copenhagen, Denmark, ²Aarhus University, Denmark
- [P1.36] A high-molecular weight and soluble hexameric form of endogenous retroviral protein, pHERV-W ENV, is specifically extracted from demyelinating MS lesions and can be detected in sera from active MS patients**
B. Charvet², E. Saba⁶, R. Gorter⁴, J. Pierquin², J. Brunel², S. Khoury⁶, S. Amor^{4,5}, H. Perron*^{1,3}, ¹Geneuro, Switzerland, ²Geneuro, France, ³University of Lyon, France, ⁴VU Medical Center Amsterdam, The Netherlands, ⁵Queen Mary University of London, UK, ⁶American University of Beirut MS Center, Lebanon
- [P1.37] Searching for novel autoantibodies in psychiatric disorders - a case control and follow up study**
A. Zandian^{2,4}, L. Wingård¹, H. Nilsson¹, E. Sjöstedt^{3,4}, D.X.J. Johansson¹, D. Just^{2,4}, C. Hellström^{2,4}, A. Häggmark-Månberg^{2,4}, P. Nilsson^{2,4}, M.A.A. Persson*^{1,4}, ¹Karolinska Institutet, Sweden, ²Royal Institute of Technology, Sweden, ³Uppsala University, Sweden, ⁴Science for Life Laboratory, Sweden
- [P1.38] The effects of systemic inflammation on the trajectory of cognition and structural changes to the brain during nine-year follow-up in the RUN DMC longitudinal cohort study**
A.M. Peters van Ton*, E.M.C. van Leijsen, M.I. Bergkamp, A.M. Tuladhar, F.E. de Leeuw, W.F. Abdo, Radboud University Medical Center, The Netherlands
- [P1.39] Reactive astrocytes-induced dopaminergic neuronal cell death in a human model of Parkinson's disease**
M. Pons-Espinal*^{1,2}, L. Blasco-Agell^{1,2}, G. Carola^{1,2}, A. Di Domenico^{1,2}, I. Fernandez-Carasa^{1,2}, E. Tolosa^{3,4}, M. Juan-Otero^{3,4}, A. Raya⁵, A. Consiglio^{1,2}, ¹Institute of Biomedicine of the University of Barcelona, Spain, ²University of Barcelona, Spain, ³Hospital Clinic de Barcelona, Spain, ⁴Institut d'Investigacions Biomediques August Pi i Sunyer, Spain, ⁵Center of Regenerative Medicine in Barcelona, Spain
- [P1.40] Unmutated human antibodies against the NMDA receptor are functional**
N.K. Wenke¹, J. Kreye^{1,2}, E. Andrzejak¹, A. van Casteren¹, F. Ackermann¹, C.G. Garner¹, H. Prüss*^{1,2}, ¹German Center for Neurodegenerative Diseases, Germany, ²Charité - Universitätsmedizin, Germany
- [P1.41] Encephalopathy associated with anti-IgLON5 antibody: Report of three cases**
H.T. Ren*, H.Z. Guan, S.Y. Fan, S. Wang, X.L. Xu, H.L. Hao, C.Y. Liu, L.Y. Cui, Y. Huang, Peking Union Medical College Hospital, China
- [P1.42] Serum inflammatory markers in severe mental illness: Decrease of interleukins 2 and 6 after inpatient treatment in a longitudinal prospective study**
A.A. Schmitt Junior¹, L. Primo de Carvalho Alves^{1,2}, N.S. Rocha*^{1,2}, ¹Hospital de Clinicas de Porto Alegre, Brazil, ²Universidade Federal do Rio Grande do Sul, Brazil
- [P1.43] Premature T helper cell aging in major depression Childhood trauma induces myeloid inflammatory activation only in conjunction with premature aging**
C. Schiweck*¹, S. Claes¹, V. Arolt³, N. Müller⁴, E. Vrieze¹, H.A. Drexhage¹, ¹KU Leuven, Belgium, ²Erasmus MC Rotterdam, The Netherlands, ³WWU Muenster, Germany, ⁴LMU Munich, Germany
- [P1.44] Neuro-inflammation and neuro-immune abnormalities in autism spectrum disorders: Targeting the endocannabinoid system for potential pharmacological treatment**
D. Siniscalco*^{1,2}, A.L. Brigida², S. Schultz³, N. Antonucci⁴, ¹University of Campania, Italy,

²Italian Group for Studying Autism, Italy, ³University of Texas Health Science Center, USA, ⁴Biomedical Centre for Autism Research and Treatment, Italy

- [P1.45] Declining incidence of virus infections and schizophrenia in Finland**
A. Tanskanen*^{1,2}, H. Taipale^{1,2}, J. Tiihonen^{1,3}, ¹Karolinska Institutet, Sweden, ²University of Eastern Finland, Finland, ³Stockholm City Council, Sweden
- [P1.46] Exploring the relationship between anti-NMDA receptor encephalitis and vaccination**
H. Wang*, S.H. Lin, National Chiao Tung University, Taiwan
- [P1.47] An investigation of neuro-immune markers and cognitive performance in hiv infected patients**
M.E. Williams*¹, J. Ipser¹, D.J. Stein^{1,2}, J.A. Joska¹, P.J.W. Naudé¹, ¹University of Cape Town, South Africa, ²SU/UCT MRC Unit on Risk and Resilience in Mental Disorders, South Africa
- [P1.48] Location-specific characteristics of perivascular spaces as brain's lymphatic pathways**
S. Yamada*^{1,2}, M. Ishikawa^{1,3}, M. Oshima², M. Yamaguchi², K. Yamamoto², ¹Rakuwakai Otowa Hospital, Japan, ²The University of Tokyo, Japan, ³Rakuwa Villa Ilios, Japan
- [P1.49] Targeted and genome-wide approaches reveal alterations to JAK-STAT1 transcriptional signatures in psychosis**
J.K. Melbourne*, B. Feiner, Y. Pang, M-R. Park, C. Rosen, R.P. Sharma, University of Illinois, USA
- [P1.50] Efficacy of anti-inflammatory treatment on depression and depressive symptoms: A comprehensive systematic review and meta-analysis of randomized clinical trials**
O.K.F. Köhler-Forsberg*^{1,2}, C.N.L. Lydholm², C.H. Hjorthøj², M.N. Nordentoft², O.M. Mors¹, M.E.B. Benros¹, ¹Aarhus University Hospital, Denmark, ²Mental Health Centre Copenhagen, Denmark
- [P1.51] Inflammatory markers, anxiety, depression and neurocognition in Hepatitis C virus infection: A cross-sectional study and gender effect analysis**
D.P. Barreira*, A. Matos, M. Bicho, R.T. Marinho, S. Ouakinin, Universidade de Lisboa, Portugal
- [P1.52] Characteristics of young adults with depression and low-grade inflammation in the ALSPAC birth cohort**
B. Oltean*¹, G. Lewis², P.B. Jones¹, G. Khandaker¹, ¹University of Cambridge, UK, ²University College London, UK
- [P1.53] Peripheral inflammation and anxiety and depressive like behavior in female mice subjected to chronic social instability stress**
A. Renteria-Dominguez*, A. Labaka, O. Goñi-Balentziaga, L. Garmendia, E. Gómez-Lázaro, Euskal Herriko Unibertsitatea (UPV/EHU), Spain
- [P1.54] Two subsets of CD8⁺ resident memory T cells populate the human brain**
J. Smolders^{1,2}, K.M. Heutinck³, N.L. Fransen¹, E.B.M. Remmerswaal³, P. Hombrink⁴, I.J.M. ten Berge³, R.A.W. van Lier⁴, I. Huitinga¹, J. Hamann*^{1,3}, ¹Netherlands Institute for Neuroscience, The Netherlands, ²Canisius Wilhelmina Hospital, The Netherlands, ³University of Amsterdam, The Netherlands, ⁴Sanquin Research, The Netherlands
- [P1.55] Successful outcome, after a reduced-dose etoposide-based regimen, in a case series of children with MAS-HLH and CNS involvement**
A.C. Home^{1,3}, S. Berg², B. Magnusson³, S. Hagelberg³, J-I. Henter*¹, ¹The Karolinska Institute, Sweden, ²The Sahlgrenska University Hospital, Sweden, ³The Karolinska Hospital, Sweden
- [P1.56] Neuroinflammation in post-treatment Lyme Disease Syndrome measured by PET – A cross sectional pilot study**
Y. Deri*, A. Biegon, E. Bartlett, P.K. Coyle, C. DeLorenzo, J. Gardus, L.A. Marcos, W.F. Scherl, O. Syritsyna, B.J. Luft, Stony Brook University Hospital, USA
- [P1.57] Predicting individual patient outcomes in first episode psychosis using machine learning: A role for inflammatory biomarkers**
S.P. Leighton*^{1,2}, R. Krishnadas^{1,2}, K. Chung¹, A. Blair^{1,2}, S. Brown^{1,2}, S. Clark^{1,2}, K. Sowerbutts^{1,2}, A.I. Gumley^{1,2}, J. Cavanagh^{1,2}, ¹University of Glasgow, UK, ²NHS Greater Glasgow & Clyde, UK
- [P1.58] The role of type I interferons in the neuroinflammatory response**
M. Suessmilch*, L. Nerurkar, J. Edgar, G. Graham, University of Glasgow, UK
- [P1.59] Alterations in CD300f immunoreceptor are associated with dystrophic microglia and major depressive disorder**
N. Lago*¹, F.N. Kaufmann⁵, M.L. Negro-Demontel^{1,2}, D. Alí¹, N. Viturera², J. Sayos⁴, D.B. McGavern⁶, R. Lopez-Vales¹, M.P. Kaster⁵, H. Peluffo^{1,2}, ¹Institut Pasteur de Montevideo, Uruguay, ²Faculty of Medicine-UDELAR, Uruguay, ³Autonomous University of Barcelona, Spain, ⁴Vall d'Hebrón Institut de Recerca, Spain, ⁵Federal University of Santa Catarina, Brazil

⁶National Institute of Neurological Disorders and Stroke-NIH, USA

- [P1.60] **Perivascular cuffing of T cells is related to chronic MS lesion activity in progressive MS cases: A retrospective autopsy cohort analysis**
N.L. Fransen*¹, J. Smolders^{1,2}, M. Mizee¹, J. Engelenburg¹, S. Van Etten¹, M.R.J. Mason¹, J. Hamann^{1,3}, I. Huitinga¹, ¹Netherlands Institute for Neuroscience, The Netherlands, ²Canisius Wilhelmina Hospital, The Netherlands, ³Amsterdam Medical Centre, The Netherlands
- [P1.61] **Profiling human primary microglia in normal-appearing tissue and active multiple sclerosis lesions**
M. van der Poel*¹, T. Ulas¹, C. Böttcher³, M.R. Mizee¹, C. Hsiao⁴, S.M. Miedema¹, K.G. Schuurman¹, J.L. Schultze², J. Hamann^{1,4}, I. Huitinga¹, ¹Netherlands Institute for Neuroscience, The Netherlands, ²University of Bonn, Germany, ³Charité Universitätsmedizin Berlin, Germany, ⁴Academic Medical Center, The Netherlands
- [P1.62] **A possible role of CCL17 in brain development and behavior**
C. Paraschivescu*^{1,2}, O. Khalfallah^{1,2}, S. Barbosa^{1,2}, P. Bermudez-Martin^{1,2}, L. Davidovic^{1,2}, N. Glaichenhaus^{1,2}, ¹Institut de Pharmacologie Moléculaire et Cellulaire, France, ²Université Nice Sophia Antipolis, France
- [P1.63] **Dysregulation of GSK-3 β /NRF2 axis reveals new therapy for adrenoleukodystrophy**
P. Ranea-Robles^{1,2}, N. Launay^{1,2}, M. Ruiz^{1,2}, S. Fourcade*^{1,2}, A. Pujol^{1,3}, ¹Bellvitge Biomedical Research Institute (IDIBELL), Spain, ²Center for Biomedical Research on Rare Diseases, ISCIII, Spain, ³Catalan Institution of Research and Advanced Studies (ICREA), Spain
- [P1.64] **Elucidating the human microglial transcriptome in major depressive disorder using RNA sequencing**
M.R. Mizee*, A. Adelia, J. Hamann, I. Huitinga, Netherlands Institute for Neuroscience, The Netherlands
- [P1.65] **Systematic review of anti-n-methyl-d-aspartate receptor encephalitis cases: Focus on the cognitive deficits and brain changes**
N. Borudjerdi*, M. Zandi, Y. Zaytseva, Charles University, Czech Republic
- [P1.66] **Increased gene expression and protein levels of inflammatory cytokines in patients with severe mental illness**
U. Hylén*^{1,2}, J. Bartoszek¹, M. Humble¹, E. Särndahl¹, S. Bejerot^{1,3}, D. Eklund¹, ¹Örebro University, Sweden, ²University Health Care, Sweden, ³Karoliska Institutet, Sweden
- [P1.67] **Prevalence and clinical relevance of N-Methyl-D-Aspartate Receptor antibodies (NMDAR-Ab) in psychosis populations.**
E. Kelleher*^{1,2}, P. McNamara^{1,3}, J. Dunne^{1,2}, R. Walsh^{1,4}, B. Fitzmaurice^{1,2}, M. Kamali^{1,5}, M. Gill^{1,2}, A. Vincent⁶, C. Doherty^{1,2}, A. Corvin^{1,2}, ¹Trinity College Dublin, Ireland, ²St James's University Hospital, Ireland, ³National Hospital of Neurology & Neurosurgery, UK, ⁴Adelaide and Meath Hospital, Ireland, ⁵Newcastle Hospital, Ireland, ⁶Nuffield Department of Clinical Neurosciences, UK
- [P1.68] **Resilience and susceptibility to stress-induced anhedonia: A role for microglia**
A.C. Rossetti¹, M.S. Paladini¹, L. Rubini¹, M. Papp², M.A. Riva¹, R. Molteni*¹, ¹University of Milan, Italy, ²Institute of Pharmacology, Italy
- [P1.69] **Working memory performance of patients treated for NMDAR-Ab encephalitis compared to patients with schizophrenia and healthy controls using functional magnetic resonance imaging and a working memory paradigm**
E. Kelleher*^{1,2}, D. Mothersill^{3,1}, A. Hargreaves¹, C.P. Doherty^{1,2}, G. Donohoe^{3,1}, A. Corvin^{1,2}, ¹Trinity College Dublin, Ireland, ²St James's University Hospital, Ireland, ³University College Galway, Ireland
- [P1.70] **Abnormal investigations in CSF positive versus CSF negative cases of NMDAR antibody associated psychiatric syndromes in adults: A systematic review**
G. Blackman*¹, M. Lim¹, T. Pollak¹, A. Al-Diwani², M. Symmonds², A. Mazumder¹, B. Lennox², A. David¹, ¹King's College London, UK, ²Oxford University, UK
- [P1.71] **Lymphocytes infiltration, glial activation and neuronal loss in cerebellum of patients died with chronic liver disease**
T. Balzano¹, J. Forteza², J. Giner³, P. Molina⁴, J. Sancho-Jimenez³, A. Monzo³, A. Urios⁵, C. Montoliu⁵, V. Felipo*¹, ¹Centro Investigación Príncipe Felipe, Spain, ²Instituto Valenciano de Patología, Spain, ³Instituto de Medicina Legal y Ciencias Forenses, Spain, ⁴Universidad Valencia, Spain, ⁵INCLIVA, Spain
- [P1.72] **Increasing extracellular cGMP in cerebellum in vivo reduces neuroinflammation, GABAergic tone and motor in-coordination in hyperammonemic rats**
A. Cabrera-Pastor, T. Balzano, V. Hernandez-Rabaza, M. Malaguarnera, M. Llansola, V.

Felipo*, *Centro Investigación Príncipe Felipe, Spain*

- [P1.73] Machine learning to identify cytokine-based symptom clusters in ovarian cancer**
M. Li^{*1}, R.Y. Klein¹, M. McCusker¹, S. Ferguson¹, H. Mackay², C. Paige¹, G. Rodin¹, B. Haibe-Kains¹, ¹*Princess Margaret Cancer Centre, Canada*, ²*Sunnybrook Health Sciences Centre, Canada*
- [P1.74] Prevention of folate receptor antibody-mediated behavioral deficits in a rat model: Implications for the treatment of autism spectrum disorders**
E.V. Quadros^{*1}, A. Desai¹, J.M. Sequeira¹, V.T. Ramaekers², R.E. Frye³, ¹*SUNY Downstate, USA*, ²*University of Liege, Belgium*, ³*Childrens Hospital, USA*
- [P1.75] Resilience to psychological stress and inflammatory biomarkers: A cross-sectional survey**
S.J. Jung^{*1,2}, J.E. Heo¹, H.C. Kim¹, ¹*Yonsei University College of Medicine, Republic of Korea*, ²*Harvard T.H. Chan School of Public Health, USA*
- [P1.76] Melancholic depressive features and their association with inflammatory markers among severely depressed inpatients - A cross-sectional study**
L. Primo de Carvalho Alves^{1,2}, N. Sica da Rocha^{*1}, ¹*Federal University of Rio Grande do Sul, Brazil*, ²*Hospital de Clínicas de Porto Alegre, Brazil*
- [P1.77] A double-blind randomised controlled cross-over trial of peripheral immune challenge on the "triple network" functional connectivity in humans**
R. Krishnadas*, F. Queiraza, A. McColl, J. McLean, J. Cavanagh, *University of Glasgow, UK*
- [P1.78] Latent cytomegalovirus infection associated with white and gray matter abnormalities in major depressive disorder: A cross-sectional study**
M. Bergamino¹, B.N. Ford¹, T.K. Teague², J. Bodurka¹, R.H. Yolken³, M.P. Paulus¹, J. Savitz^{*1}, ¹*Laureate Institute for Brain Research, USA*, ²*University of Oklahoma School of Community Medicine, USA*, ³*Johns Hopkins University, USA*
- [P1.79] Interferon-Alpha & Anti-TNF Have differential effects on Amygdala Emotional Reactivity with actions of Interferon-Alpha predicting later development of depressive symptoms**
C. Clarke¹, E. Cooper¹, J. Tibble², K. Davies^{1,2}, V. Voon³, H.D. Critchley¹, N.A. Harrison^{*1}, ¹*Brighton and Sussex Medical School, UK*, ²*Brighton and Sussex University Hospital, UK*, ³*Cambridge University, UK*
- [P1.80] Cross-sectional study of immunological profile of inpatients with acute psychoses**
A. Galkina¹, S. Golubev¹, O. Karpenko¹, G. Kostyuk^{*1}, T. Klushnik², ¹*Mental-health Clinic No.1, Russia*, ²*Mental Health Research Center RAMS, Russia*
- [P1.81] Seizures in Autoimmune epilepsy masquerading as dissociative attacks**
L. Gillinder*, S. Dionisio, *Mater Hospital, Australia*
- [P1.82] Brain CD4⁺ and CD8⁺ T cells show distinct tissue resident memory marker profiles**
J. Smolders^{*1,4}, N.L. Fransen¹, K.M. Heutinck², E.B.M. Remmerswaal², P. Hombrink³, I. Huitinga¹, J. Hamann^{1,2}, ¹*Netherlands Institute for Neuroscience, The Netherlands*, ²*Academic Medical Center, University of Amsterdam, The Netherlands*, ³*Sanquin Research, The Netherlands*, ⁴*Canisius Wilhelmina Hospital, The Netherlands*
- [P1.83] Targeting the NLRP3 inflammasome in the mechanism of sleep deprivation induced neuroinflammation**
G. Pasinetti, C. Smith*, F. Herman, J. Brathwaite, *Icahn School of Medicine at Mount Sinai, USA*
- [P1.84] Minimal hepatic encephalopathy is associated with expansion and activation of CD4⁺CD28⁻, Th22 and Tfh and B lymphocytes**
A. Mangas¹, R. Garcia-Garcia^{2,1}, P. Leone^{2,1}, A. Cabrera¹, A. Urios¹, M.P. Ballester³, J. Tosca³, D. Escudero-García³, V. Felipo², C. Montoliu^{*1,5}, ¹*Fundación Investigación Hospital Clínico de Valencia. Instituto de Investigación Sanitaria-INCLIVA, Spain*, ²*Centro Investigación Príncipe Felipe de Valencia, Spain*, ³*Hospital Clínico de Valencia, Universidad de Valencia, Spain*, ⁴*Hospital Arnau de Vilanova, Spain*, ⁵*Universidad de Valencia, Spain*
- [P1.85] Functional connectivity differences associated to chronic hepatitis C: A case-control study**
G. Oriolo^{1,2}, L. Blanco³, D. Martin-Hernandez⁴, Z. Mariño⁵, R. Navines^{1,2}, R. Solá^{3,6}, J.C. Leza⁴, J. Pujol³, X. Forns⁵, R. Martin-Santos^{*1,2}, ¹*Hospital Clinic, IDIBAPS, CIBERSAM, Spain*, ²*University of Barcelona, Spain*, ³*Hospital del Mar, Spain*, ⁴*Universidad de Madrid, CIBERSAM, Spain*, ⁵*Hospital Clinic, IDIBAPS, CIBERHED, Spain*, ⁶*Universitat Autònoma Barcelona, Spain*
- [P1.86] Factor analyses differentiate clinical phenotypes of interferon-alpha-associated and idiopathic depression**
R. Fialho¹, M. Rolt¹, A. Field³, G. Campbell², J. Tibble⁴, N.A. Harrison^{*1,2}, R. Whale^{1,2}, ¹*Sussex Partnership NHS Foundation Trust, UK*, ²*Brighton and Sussex Medical School, UK*, ³*University of Sussex, UK*, ⁴*Brighton and Sussex University Hospitals, UK*
- [P1.87] Case series and literature review: Antiviral prophylaxis following treated Herpetic**

Encephalitis is imperative to prevent delayed acute Retinal Necrosis

S.I. Balendra*, D. Farnworth, A.J. Lockwood, Queen Alexandra Hospital, UK

Poster session 2

12:00-13:30 Saturday November 17, 2018

Room: Mercurio and Neptuno

- [P2.01] **Selective action of epsilon toxin from clostridium perfringens on t-Lymphocyte human cell lines**
M. Blanch^{1,2}, J. Dorca-Arevalo^{1,2}, A. Not¹, M. Cases^{1,2}, I. Gómez de Aranda^{1,2}, A. Martínez Yélamos^{1,3}, C. Solsona^{1,2}, J. Blasi^{1,2}, ¹Universitat de Barcelona, Spain, ²Bellvitge Biomedical Research Institute, Spain, ³University Hospital of Bellvitge, Spain
- [P2.02] **Alteration of intrinsic and network excitability of CA1 pyramidal neurons induced by human anti-NR1 antibodies**
M. Ceanga¹, H. Haselmann¹, L. Schmidl¹, J. Kreye², N. Wenke², H. Pruess², C. Geis¹, ¹Jena University Hospital, Germany, ²Charite Berlin University Medicine, Germany
- [P2.03] **Glycine receptor antibodies in progressive encephalopathy with rigidity and myoclonus (PERM) disrupt inhibitory synaptic transmission in spinal cord neurons**
S.J. Crisp^{1,2}, C. Dixon², A. Vincent³, D.M. Kullmann², ¹University of Cambridge, UK, ²University College London, UK, ³University of Oxford, UK
- [P2.04] **Anti-neuronal autoantibodies in a dopamine receptor encephalitis in pediatric autoimmune neuropsychiatric and movement disorders**
M.W. Cunningham¹, J.L. Chain¹, K.A. Alvarez¹, A. Blanco¹, R. Bentley¹, R. Hommer², K. Williams³, P. Grant², J.F. Leckman⁴, S. Swedo², ¹University of Oklahoma Health Sciences Center, USA, ²National Institute of Mental Health, USA, ³Harvard Medical School, USA, ⁴Yale School of Medicine, USA
- [P2.05] **Frequency of antigen-specific CD4 T Cells in anti-NMDA receptor encephalitis**
L-M. Dao^{1,2}, M-L. Machule^{1,2}, P. Bacher^{2,3}, A. Scheffold^{2,3}, H. Prüss^{1,2}, ¹German Center for Neurodegenerative Diseases, Germany, ²Charité Universitätsmedizin, Germany, ³Universitätsklinikum Schleswig, Germany
- [P2.06] **Isolated dysarthria due to immune-mediated brainstem encephalitis associated with anti-glutamate acid decarboxylase 65 antibodies**
S. Dawit*, E.M. Okazaki, M.F. Grill, Mayo Clinic, USA
- [P2.07] **A new autoimmune-driven mouse model of anti-NMDAR encephalitis**
I. Wagnon¹, P. Hélie¹, C. Regnaud¹, D. Vivien^{1,3}, M. Naveau², V. Agin¹, E. Maubert¹, R. Macrez¹, F. Docagne¹, ¹Normandie Univ, Unicaen, Inserm, France, ²Unicaen, CNRS, France, ³CHU, France
- [P2.08] **Functional relevant loss of postsynaptic NMDA receptors induced by human anti-NR1 autoantibodies**
L. Schmidl¹, L. Roepke¹, M. Ceanga¹, J. Kreye², N. Wenke², H. Pruess¹, C. Geis¹, ¹Jena University Hospital, Germany, ²Charite Berlin University Medicine, Germany
- [P2.09] **Detailed analysis of cerebrospinal fluid findings in autoimmune encephalitides with NMDA receptor and LGI1 antibodies**
J. Lewerenz¹, M. Dürr¹, M. Ringelstein², K-W. Sühs³, C. Geis⁴, F. Thaler⁵, N. Melzer⁶, U. Zettl⁷, C.G. Bien⁸, K.S. Golombek⁶, ¹Ulm University, Germany, ²Heinrich Heine University Düsseldorf, Germany, ³University Hospital Hannover, Germany, ⁴Jena University Hospital, Germany, ⁵Ludwig-Maximilian University Munich, Germany, ⁶University Hospital Münster, Germany, ⁷University Hospital Rostock, Germany, ⁸Epilepsy Center Bethel, Germany, ⁹Christian-Albrechts-University Kiel, Germany
- [P2.10] **Mechanism of influenza vaccine-induced narcolepsy with cataplexy using an immune-mediated narcolepsy mouse model**
X-H. Nguyen, R. Bernard-Valnet, C. Quériault, R. Boston, A-L. Morel, J. Bauer, C. Peyron, R.S. Liblau*, Inserm, France
- [P2.11] **Affinity measurements of human NMDA receptor autoantibodies - implications for disease mechanisms**
L-T. Ly¹, J. Kreye¹, B. Jurek¹, M. Reincke¹, N. Wenke¹, H. Prüss^{1,2}, ¹German Center for Neurodegenerative Diseases, Germany, ²Charité – Universitätsmedizin Berlin, Germany
- [P2.12] **Complement activation and synaptic reorganization in the hippocampal ca2 subfield following cuprizone-induced myelin loss**
M.A. Malpede^{1,2}, S.I. de Vries¹, I. Huitinga¹, V. Ramaglia³, M.H.P. Kole^{1,2}, ¹Netherlands Institute for Neuroscience, The Netherlands, ²Utrecht University, The Netherlands, ³University

of Toronto, Canada

- [P2.13] **Anti-TPO encephalitis case report: Presence of IgG autoantibodies against hippocampal proteins in a case tested negative by antigen-specific assays**
M. Mané Damas*, A. Vinke, C. Hoffmann, S. Zong, M. Losen, P. Molenaar, J. Damoiseaux, S. Koudijs, R. Rouhl, P. Martinez Martinez, *Maastricht University, The Netherlands*
- [P2.14] **Autoimmune psychosis, prevalence of neuronal autoantibodies in early psychotic disorders**
M. Mané-Damas*¹, A. Vinke², A. Mané-Santacana³, C. Hoffmann¹, S. Zong¹, M. Losen¹, M. Marcelis³, R. Rouhl², T. van Amelsvoort³, P. Martinez-Martinez¹, ¹Maastricht University, The Netherlands, ²Hospital del Mar Medical Research Institute, Spain, ³Institute for Mental Health Care Eindhoven, The Netherlands
- [P2.15] **Epileptic phenotypes, treatment options and long-term outcomes of autoimmune epilepsies: A multicenter retrospective observational cohort study**
S. Matricardi*¹, T. Granata², S. Casciato³, I. Pappalardo², E. Freri², A. Stabile², A.T. Giallonardo³, R. Michelucci⁵, S. Sartori⁷, F. Villani², ¹Ospedali Riuniti, Italy, ²Foundation IRCCS Neurological Institute, Italy, ³Sapienza University, Italy, ⁴Ospedale Ca' Foncello, Italy, ⁵IRCCS Institute of Neurological Sciences, Italy, ⁶University Magna Graecia, Italy, ⁷University Hospital of Padua, Italy
- [P2.16] **Anti-N-methyl-D-aspartate receptor encephalitis followed by transverse myelitis in a patient with bipolar disorder and systemic lupus erythematosus: Which antibodies are doing what?**
K. Nemani*, L. Gurin, *New York University School of Medicine, USA*
- [P2.17] **An uncommon presentation of an uncommon disease: A case of Neuropsychiatric systemic lupus erythematosus (NPSLE) in a tertiary care center**
G.E. Rieth, *Case Western Reserve University School of Medicine, USA*
- [P2.18] **Autoimmune diseases are associated with an increased risk of schizophrenia: A nationwide population-based cohort study**
L.Y. Wang¹, J.H. Chiang², Y.C. Shen*^{1,3}, ¹Tzu Chi General Hospital, Taiwan, ²China Medical University Hospital, Taiwan, ³Tzu Chi University, Taiwan
- [P2.19] **Cerebral hyperperfusion in steroid responsive encephalopathy associated with autoimmune thyroiditis: A case report**
E. Tauriala*, S. Rätty, D. Strbian, *Helsinki University Central Hospital, Finland*
- [P2.20] **Anti-GABA_A receptor encephalitis, a clinical challenge A case report**
J. Villacieros-Álvarez*¹, S. Quintas¹, S. Kapetanovic García², A. Sainz Pelayo², A. Carrasco Sayalero³, F. Graus⁴, ¹University Hospital of La Princesa, Spain, ²University Hospital of Basurto, Spain, ³University Hospital of Ramón y Cajal, Spain, ⁴Clínica Hospital, Spain
- [P2.21] **Long-term sensitization as a model of anxiety and psychoses: Prevented effects of antibodies to calcium-binding protein S100B**
A. Vinarskaya*¹, V. Andrianov², T. Bogodvid², I. Deryabina², L. Muranova², D. Silantyeva², P. Balaban¹, K. Gainutdinov², ¹Institute of Higher Nervous Activity and Neurophysiology of RAS, Russia, ²Kazan Federal University, Russia
- [P2.22] **Cerebrospinal fluid markers of inflammation and infections in schizophrenia and affective disorders: A systematic review and meta-analysis**
S. Orlovska, O. Köhler-Forsberg, S. Brix, M. Nordentoft, D. Kondziella, J. Krogh, M.E. Benros*, *Copenhagen University Hospital, Denmark*
- [P2.23] **Epilepsy in anti-GABA_BR, anti-LG11, and anti-NMDAR encephalitis: The effect of antiepileptic drugs and immunotherapy**
M.A.A.M. de Bruijn*¹, A. van Sonderen¹, M.W.J. Schreurs¹, R.P.W. Rouhl², C.A. van Donselaar³, H.J.M. Majoie^{2,4}, R.F. Neuteboom¹, P.A.E. Sillevius Smitt¹, R.D. Thijs⁴, M.J. Titulaer¹, ¹Erasmus University Medical Center, The Netherlands, ²Maastricht University, The Netherlands, ³Maastad Hospital, The Netherlands, ⁴Stichting Epilepsie Instellingen Nederland, The Netherlands, ⁵Leiden University Medical Center, The Netherlands, ⁶Academic Center of Epileptology Kempenhaeghe, The Netherlands
- [P2.24] **Mimics of autoimmune encephalitis - a retrospective cohort study**
J.M. de Vries*, R.F. Neuteboom, M.W. Vernooij, R.M. Verdijk, M.W.J. Schreurs, P.A.E. Sillevius Smitt, M.J. Titulaer, *ErasmusMC, The Netherlands*
- [P2.25] **Establishing a PANS clinic - the Karolinska cohort**
C. Gromark*, D. Mataix-Cols, R. Harris, E. Serlachius, A-C. Horne, *Karolinska Institutet, Sweden*
- [P2.26] **Clinical characteristics, laboratory investigations and long-term outcome in patients with autoimmune encephalopathy: A 5 year single-cohort observational study**
R. Iorio*, V. Damato, G. Spagni, A. Evoli, *Università Cattolica, Italy*

- [P2.27] Three patients diagnosed with Susac syndrome: The clinical course, imaging results and treatment response a case report**
S.M. Laakso*, P. Tommila, P.J. Tienari, *Helsinki University Central Hospital, Finland*
- [P2.28] Biological motion pattern during inflammation: A double-blind, cross-over, placebo-controlled study**
J. Lasselin^{1,3}, T. Sundelin^{2,4}, P.M. Wayne⁵, M.J. Olsson², S. Paues Göranson², J. Axelsson^{1,2}, M. Lekander^{1,2}, ¹Stockholm University, Sweden, ²Karolinska Institutet, Sweden, ³University Hospital Essen, Germany, ⁴New York University, USA, ⁵Hospital and Harvard Medical School, USA
- [P2.29] Serum and CSF neurofilament light chain as possible biomarker in anti-neuropil antibody-associated encephalitis: A multicenter study**
S. Mariotto^{*1}, A. Gajofatto¹, L. Zuliani², M. Zoccarato³, M. Gastaldi⁴, D. Franciotta⁴, G. Cantalupo¹, E. Sechi⁵, S. Monaco¹, S. Ferrari¹, ¹University of Verona, Italy, ²Ospedale Treviso, Italy, ³Neurology Unit, Padova, Italy, ⁴University of Pavia, Italy, ⁵University of Sassari, Italy
- [P2.30] A longitudinal observational study in a Chilean sle cohort reveals anti neuronal surface – p antigen (nspsa) antibody as predictor of damage accrual in systemic lupus erythematosus**
M. Mimica¹, I. Barra², R. Ormeño², P. Flores², J. Calderón², O. Padilla², M. Bravo-Zehnder¹, L. Massardo^{*1}, A. González^{1,2}, ¹Universidad San Sebastián, Chile, ²Pontificia Universidad Católica de Chile, Chile
- [P2.31] Frequency and significance of thyroid peroxidase (TPO) antibodies**
S. Mattozzi^{*1,3}, S. Sotgiu^{1,2}, D. Escudero^{3,5}, J.M. Augé⁵, A. Saiz^{3,5}, H. Ariño^{3,5}, M. Spatola³, T. Armangué^{3,4}, J. Dalmau^{3,5}, F. Graus^{3,5}, ¹Università di Sassari, Italy, ²Ospedale Le cliniche di S. Pietro, Italy, ³IDIBAPS-Universidad de Barcelona, Spain, ⁴Hospital San Joan de Deu, Spain, ⁵Hospital Clinic, Spain
- [P2.32] Neurologic syndromes associated to high-titer GAD antibodies, clinical phenotyping and response to immunotherapy**
A. Muñoz-Lopetegui^{*1}, S. Boukhrissi², D.E.M. Bastiaansen², M.A.A.M. de Bruijn², P.A.E. Sillevius Smitt², M.W.J. Schreurs², M.J. Titulaer², ¹Hospital Universitario Donostia, Spain, ²Erasmus University Medical Center, The Netherlands
- [P2.33] Severe long-term functional impairment after NMDA receptor encephalitis due cerebellar ataxia and residual critical illness polyneuropathy**
M. Riemann*, S. Jesse, J. Wagner, P. Steinacker, M. Otto, J. Lewerenz, *Ulm University, Germany*
- [P2.34] Role of immunotherapy in unknown/cryptogenic status epilepticus suspected as encephalitis: A multicenter cohort study**
J-W. Shin^{*1}, Y.S. Koo², Y-S. Kim³, S-Y. Lee⁴, H.K. Kim⁵, J-I. Byun⁶, J-S. Sunwoo⁷, J. Moon⁸, S-T. Lee⁸, K. Chu⁸, ¹CHA university, Republic of Korea, ²University of Ulsan college of Medicine, Republic of Korea, ³Gyeongsang National university hospital, Republic of Korea, ⁴Kangwon University hospital, Republic of Korea, ⁵National Medical Center, Republic of Korea, ⁶Kyung Hee University Hospital at Gangdong, Republic of Korea, ⁷Soonchunhyang University Seoul Hospital, Republic of Korea, ⁸Seoul National University Hospital, Republic of Korea, ⁹Chungnam National University Hospital, Republic of Korea, ¹⁰Dongsan Medical Center, Keimyung University, Republic of Korea
- [P2.35] Evaluation of a brief upfront immunotherapy protocol plus rituximab for the treatment of pediatric opsoclonus-myoclonus syndrome**
C. Wilbur^{*1}, C. Yea¹, C. Licht^{1,2}, M.S. Irwin^{1,2}, E.A. Yeh^{1,2}, ¹The Hospital for Sick Children, Canada, ²University of Toronto, Canada
- [P2.36] Cognitive impairment and HTLV-1 associated Myelopathy: Case controlled study and inflammatory findings**
A.P. Champs¹, G.C. Almeida^{*1}, V.M.A. Passos², S.M. Barreto², C. Meirelles¹, P. Caramelli¹, ¹Hospital Sarah Belo Horizonte, Brazil, ²Universidade Federal de Minas Gerais, Brazil
- [P2.37] Basal ganglia encephalitis/PANDAS autoantibodies and the blood-brain barrier**
T. Cutforth^{*1}, N. Ampatey¹, S. Swedo², A. Sproul¹, A. Snead¹, R. Hommer¹, K. Williams³, J. Leckman⁴, D. Agalliu¹, ¹Columbia University Irving Medical Center, USA, ²National Institute of Mental Health, USA, ³Harvard Medical School, USA, ⁴Yale University School of Medicine, USA
- [P2.38] Co-ultraPEALut: Role in preclinical and clinical delirium manifestations**
M.L. Lunardelli¹, R. Crupi², R. Siracusa², G. Cocuzza¹, M. Cordaro², E. Martini¹, D. Impellizzeri², R. Di Paola², S. Cuzzocrea^{*2}, ¹Policlinic Bologna, Italy, ²University of Messina, Italy
- [P2.39] Experimental sepsis increases water diffusion in white matter-rich regions in the absence of**

blood-brain barrier breakdown: Relationships to changes in glial cell morphology

I. Dhaya^{1,2}, M. Griton³, R. Nicolas^{1,4}, G. Raffard^{1,4}, O. Periot^{1,4}, B. Hiba^{1,4}, J.P. Konsman^{*1,4}, ¹University of Bordeaux, France, ²University of Tunis El Manar, Tunisia, ³University Hospital Bordeaux, France, ⁴CNRS, France

[P2.40] Pattern recognition receptors and inflammasome activation in cerebral endothelial cells and pericytes

A. Nyul-Toth¹, M. Kozma¹, C. Fazakas¹, J. Hasko¹, K. Molnar¹, A.E. Farkas¹, A.G. Vegh¹, I. Wilhelm^{1,2}, I.A. Krizbai^{*1,2}, ¹Hungarian Academy of Sciences, Hungary, ²Western University, Romania

[P2.41] A mouse model for the Susac syndrome

C. Meyer^{*}, L.M. Yshii, M. Schwaninger, J. Bauer, G. Martin-Blondel, R.S. Liblau, *Inserm, France*

[P2.42] Life after autoimmune encephalitis - patient experiences

A. Easton^{1,2}, ¹Encephalitis Society, UK, ²University of Liverpool, UK

[P2.43] Autoimmune encephalitis with predominant psychiatric syndromes: Preliminary results from a systematic literature review and the GENERATE-Psych Database

D. Endres^{*}, V. Maier, E. Lungen, R. Dersch, L. Tebartz van Elst, *University of Freiburg, Germany*

[P2.44] Possible efficacy of methotrexate added to treatment as usual for schizophrenia in a randomised double-blind placebo-controlled clinical trial; implications for pathogenesis

I. Chaudhry^{1,2}, N. Husain^{1,3}, O. Husain^{1,4}, B. Deakin^{*1,4}, ¹University of Manchester, UK, ²Pakistan Institute of Living and Learning, Pakistan, ³Lancashire Care Early Intervention Service, UK, ⁴Greater Manchester Mental Health NHS Foundation Trust, UK

[P2.45] Mast cell chymase induces blood-brain barrier breakdown and promotes Japanese encephalitis virus brain penetration and infection

J.T. Hsieh^{*}, A.P. Rathore, G. Soundarajan, A.L. St John, *Duke-NUS Medical School, Singapore*

[P2.46] Plasma cell depletion with bortezomib in the treatment of refractory NMDAR-antibody encephalitis Rational developments in neuroimmunological treatment

S. Keddie¹, S.J. Crisp¹, J. Blackaby¹, A. Cox¹, A. Coles¹, M. Hart¹, A.J. Church¹, A. Vincent¹, M. Zandi¹, M.P. Lunn¹, R. Brown^{*2}, ¹National Hospital for Neurology and Neurosurgery, UK, ²University College London, UK

[P2.47] Retinal imaging and stem cell derived brain endothelial cells: Transformative frameworks for the evaluation of blood brain barrier dysfunction in psychosis

P. Lizano^{*1,2}, M. Keshavan^{1,2}, R. Karmacharya^{2,3}, ¹Beth Israel Deaconess Medical Center, USA, ²Harvard Medical School, USA, ³Massachusetts General Hospital, USA

[P2.48] Specific mitogen-activated protein kinase signalling regulates production of inflammatory molecules in microglia

J. Kwon^{*}, B. Morris, J. Cavanagh, *University of Glasgow, UK*

[P2.49] Pre-clinical testing of therapeutic strategies using a novel mouse model for paraneoplastic cerebellar degeneration

L.M. Yshii, E. Mauré, B. Pignolet, M. Brunner-Weinzierl, J. Bauer, R. Liblau^{*}, *Inserm, France*

[P2.50] Direct and indirect effects of fumaric acids on rodent microglia

J. Kronenberg^{*}, K. Pars, M. Brieskorn, V. Gudi, M. Stangel, *Medizinische Hochschule Hannover, Germany*

[P2.51] Alpha7 acetylcholine receptor autoantibodies detected with a new radioimmunoassay are rare in sera of patients diagnosed with schizophrenia or bipolar disorder

C. Hoffmann^{*}, J. Stevens, S. Zong, *Maastricht University, The Netherlands*

[P2.52] Prevalence of neuronal and systemic autoantibodies in sera of patients with psychotic disorders and mental disorders without psychosis

C. Hoffmann^{*}, S. Zong, M. Mané Damas, *Maastricht University, The Netherlands*

[P2.53] Two faces of anti-NMDA receptor antibody encephalitis in toddlers: A case series

J.J. Cavanagh^{1,2}, K.J. Christenson^{*1}, Y. Hisamoto¹, B. Banar¹, R. Giridharan¹, M. El Shorafa¹, G.R. Chari¹, A.G. Reznikov¹, ¹State University of New York Downstate Medical Center, USA, ²Université Sorbonne Paris Cité, France

[P2.54] Movement disorders and other paroxysmal events in a cohort of children and adolescents with anti-NMDAR encephalitis: A single center observational study

T. Granata¹, S. Matricardi², F. Ragona¹, E. Freri^{*1}, F. Zibordi¹, F. Andreetta¹, S. Binelli¹, N. Nardocci¹, ¹Foundation IRCCS Neurological Institute "C. Besta", Italy, ²Children's Hospital "G. Salesi", Ospedali Riuniti, Italy

[P2.55] Neuronal surface P antigen (NSPA) regulates synaptic NMDAR function through the PTPN4

tyrosine phosphatase as its potential ubiquitin ligase target

C.S. Espinoza*^{1,2}, F.J. Carvajal³, W. Cerpa³, U. Wyneken⁴, A. Rojas⁵, L. Massardo¹, A. González^{1,2}, ¹Universidad San Sebastián, Chile, ²Pontificia Universidad Católica de Chile, Chile, ³Pontificia Universidad Católica de Chile, Chile, ⁴Universidad de los Andes, Chile, ⁵Universidad Austral de Chile, Chile

[P2.56] DNA methylation at HLA as a mediator of the DRB1*15:01 risk haplotype and a novel protective variant in Multiple Sclerosis

L. Kular*¹, Y. Liu^{2,3}, T.F.M. Andlauer^{4,5}, B. Hemmer^{6,7}, H.F. Harbo^{8,9}, A.B. Oturai¹⁰, I. Jonsdottir^{11,12}, T. Olsson¹, I. Kockum¹, M. Jagodic¹, ¹Karolinska Institutet, Sweden, ²Johns Hopkins University, USA, ³Fudan University Shanghai Medical College, China, ⁴Max Planck Institute of Psychiatry, Germany, ⁵Technische Universität München, Germany, ⁶German Competence Network Multiple Sclerosis (KKNMS), Germany, ⁷Munich Cluster for Systems Neurology (SyNergy), Germany, ⁸Oslo University Hospital, Norway, ⁹University of Oslo, Norway, ¹⁰University of Copenhagen, Denmark, ¹¹deCODE genetics/Amgen, Iceland, ¹²University of Iceland, Iceland, ¹³The National University Hospital of Iceland, Iceland

[P2.57] Brain Atrophy in children with NMDAR Encephalitis

F. Bartels*^{1,2}, M. Nikolaus¹, J. Johannsen³, R. Wickström⁴, M. Schimmel⁵, B. Kornek⁶, M. Baumann⁷, A. Blaschek⁸, K. Rostásy¹⁰, C. Finke^{1,2}, ¹Charité - Universitätsmedizin Berlin, Germany, ²Humboldt-Universität zu Berlin, Germany, ³University Medical Center Hamburg-Eppendorf, Germany, ⁴Karolinska University Hospital, Sweden, ⁵Children's Hospital Augsburg, Germany, ⁶Medical University of Vienna, Austria, ⁷Medical University of Innsbruck, Austria, ⁸Dr von Hauner's Children's Hospital, Ludwig Maximilian University of Munich, Germany, ⁹Olgahospital Stuttgart, Germany, ¹⁰Witten/Herdecke University Datteln, Germany

[P2.58] A ¹H-magnetic resonance spectroscopy as potential biomarker of basal ganglia autoimmune involvement in childhood with post-infectious movement disorders

M.G. Petruzzelli*, F. Dicuonzo, A. Peschechera, M. Margari, S. Ivagnes, L. Margari, University of Bari, Italy

[P2.59] Human autoantibodies against the dopamine receptor 1 identify potential mechanisms of neuronal signaling and disease pathogenesis in post-infectious autoimmune-mediated neuropsychiatric disease

C.M. Menendez*¹, J. Zuccolo¹, A. Zuccolo¹, A. Mascaro-Blanco¹, C. Cox¹, S. Swedo^{1,2}, M.W. Cunningham¹, ¹University of Oklahoma Health Sciences Center, USA, ²National Institute of Mental Health, USA

[P2.60] Galectin-8, a target of autoimmune antibodies, binds AMPAR impacting on glutamatergic transmission and memory

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[P2.61] Non-canonical autophagy drives CD4⁺ T cell reactivation during autoimmune CNS inflammation

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[P2.62] Nanoscale redistribution of NMDA receptors subunits in anti-NMDA receptor autoimmune encephalitis

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[P2.63] Intestinal IgA-producing cells can recirculate and regulate neuroinflammation during experimental autoimmune encephalomyelitis

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[P2.64] Antibodies from patients with anti-LG11 encephalitis alter memory and reduce the levels of Kv1.1 and AMPA receptors

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- [P2.65] The role of secondary B cell receptor diversification in peptide versus protein MOG-induced experimental autoimmune Encephalomyelitis**
D.S.W. Lee*, G. Galicia, J.L. Gommerman, *University of Toronto, Canada*
- [P2.66] Shedding light on the multiple sclerosis meninges using imaging mass cytometry**
V. Ramaglia*, K. Legg¹, O.L. Rojas¹, H. Touil², S. Zandee³, A. Prat³, A. Bar-Or², J.L. Gommerman¹, ¹*University of Toronto, Canada*, ²*University of Pennsylvania, USA*, ³*University of Montreal, Canada*
- [P2.67] Leucine-rich, glioma inactivated 1 (LG1) autoantibodies in mood and psychotic disorders: A cross-sectional study**
G. Wittenberg¹, B.E. Wurfel², J.R. Greene³, Y. Sun¹, S.A. Bliss², S. Rassnik¹, T.K. Teague⁴, W.C. Drevets¹, J. Savitz*⁵, ¹*Janssen Research & Development, LLC., of Johnson & Johnson, USA*, ²*Laureate Psychiatric Hospital and Clinic, USA*, ³*Rancho BioSciences LLC, USA*, ⁴*University of Oklahoma College of Medicine, USA*, ⁵*Laureate Institute for Brain Research, USA*
- [P2.68] EEG Findings in NMDA encephalitis - A systematic review**
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- [P2.69] Perisylvian semiology as a diagnostic clue to identify cases of chronic epilepsy associated with autoantibodies**
L. Gillinder*, S. Dionisio, *Mater Hospital, Australia*
- [P2.70] Role of Butyrylcholinesterase polymorphisms in relapsing remitting-Multiple Sclerosis (RR-MS) patients**
M. Reale¹, M. D'Aurora¹, M. Di Nicola¹, C. Gasperini³, A.M. Tata², C. D'Angelo*¹, V. Gatta¹, ¹*University G.d'Annunzio; Chieti-Pescra, Italy*, ²*University La Sapienza, Italy*, ³*Hospital San Camillo Forlanini, Italy*
- [P2.71] Monoclonal antibody repertoire in the cerebrospinal fluid of patients with autoimmune encephalitis**
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- [P2.72] A retrospective survey of treatment efficacy in glutamic acid decarboxylase antibody (GAD-ab) positive neurological syndromes**
G. Thomas-Black^{1,2}, H. Garcia-Moreno^{1,2}, M. Hart², M. Zandi^{1,2}, M. Lunn^{1,2}, P. Giunti^{1,2}, R. Brown*^{1,2}, ¹*UCL, UK*, ²*UCLH NHNN, UK*
- [P2.73] Relapsing polychondritis with anti-NMDAR encephalitis**
P. Sandoval*, J. Godoy, H. Miranda, D. Gutierrez, P. Mellado, *Pontificia Universidad Catolica de Chile, Chile*
- [P2.74] Mycophenolate mofetil for Chinese patients with autoimmune encephalitis: A prospective, open-label institutional study**
X.L. Xu^{1,2}, S.Y. Fan², H.T. Ren², B. Peng², L.Y. Cui², H.Z. Guan*², ¹*Chinese Academy of Medical Sciences, China*, ²*Peking Union Medical College, China*
- [P2.75] Being autoimmune in psychiatric places: 10 characteristic mental state features in patients with definite NMDAR-antibody encephalitis determined by detailed phenotyping**
A.A.J. Al-Diwani*¹, R. Linighan², C. Perkins², G. Critchlow², B.R. Lennox^{1,2}, M.I. Leite^{1,2}, D. Okai², S.R. Irani^{1,2}, ¹*Oxford Autoimmune Neurology Group, Nuffield Department of Clinical Neurosciences, University of Oxford, Oxford, UK*, ²*Oxford University Hospitals NHS Foundation Trust, UK*
- [P2.76] Antibodies against neurofascin are associated with severe and chronic forms of Guillain-Barré- Syndrome in children – A retrospective cohort study**
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- [P2.77] Psychosis In Anti-NMDAR Encephalitis: A Follow-up study**
Y.X.T. Yang, L.J.Y. Li, J.Y. Jia, Z.W.F. Zhao, L.A.H. Liu, Y.J. Ye, Z.Y. Zhang, D.H.Q. Dong, W.Y.P. Wang, W.H.X. Wang*, *Capital Medical University, China*
- [P2.78] Complex psychiatric symptomatology emerging into neuromyelitis optica spectrum disorder with increased aquaporin-4 microparticles in cerebrospinal fluid: A case report**
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- [P2.79] Autoimmune encephalitides in Chile: Experience in a university hospital**
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- [P2.80] Identifying immune pathways involved in Parkinson's disease employing iPS derived microglia**
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- [P2.81] Pediatric acute-onset neuropsychiatric syndrome - common symptoms and symptom course in a Swedish sample of suspected PANS patients**
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- [P2.82] Genetic factors influencing the development of binding and neutralizing antibodies against interferon beta treatment in multiple sclerosis patients**
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- [P2.83] Long-term outcomes of patients with temporal lobe epilepsy and glutamate decarboxylase antibodies: A retrospective study**
B. Joubert*, A. Belbezier, J. Haesbaert, *Hospices Civils de Lyon, France*
- [P2.84] A post-infectious chronic neuroinflammatory state after West Nile virus infection**
A.A. Leis*¹, P.J.S. Vig², F. Bai³, ¹Methodist Rehabilitation Center, USA, ²University of Mississippi Medical Center, USA, ³University of Southern Mississippi, USA
- [P2.85] Vagal Nerve Stimulations (VNS) therapy for Autoimmune Epilepsy A case report study**
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- [P2.86] Neuroimmune overlapping mutations leading to dementia: Focusing on CD33 and TREM2 genes**
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- [P2.87] IL-33/ST2 pathway and galectin-3 in pathogenesis and cardiometabolic risk evaluation in psychosis**
M.M. Borovcanin*, S. Minic Janicijevic, I. Jovanovic, N. Gajovic, N. Arsenijevic, M.L. Lukic, *University of Kragujevac, Serbia*
- [P2.88] Diagnosis and management of catatonia related to anti-N-methyl-D-aspartate receptor encephalitis: Two cases and a review of the literature**
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