15th Psychoimmunology Expert Meeting
March 26-29, 2020
From new diagnostics of immune inflammation to new therapies

Programm

World Psychiatric Association, Immunology and Psychiatry Section
German Society of Biological Psychiatry (DGBP), Sections: Immunology, CSF Research

Organizers
Prof. K. Bechter, Günzburg/Ulm
Prof. B. Bogerts, Magdeburg
Prof. H. Klein, Groningen
Prof. J. Steiner, Magdeburg
Prof. T. Frodl, Magdeburg

Scientific Board
Prof. F. Benedetti, Milano                      Prof. A. Halaris, Maywood
Prof. D., Sydney                               Prof. M.I. Benros, Copenhagen
Prof. N. Müller, München                       Prof. S. Najjar, New York
Prof. H. Ehrenreich, Göttingen P               rof. H. Reiber, Sao Paulo
Prof. R. Yolken, Baltimore                      Prof. H. Drexhage, Rotterdam

supported by
Deutsche Forschungsgemeinschaft
Thursday, March 26, 2020

Location: Schloss Reisensburg

3:30 – 7:00 pm  Registration

WORKSHOPS

3:00-4:30 pm

Workshop 1
Systematic of CSF based neurological diagnostic and neurochemical CSF research
M. Otto, Ulm & H Reiber, Göttingen

5:00 – 6:30 pm

Workshop 2
Publishing in psychiatry
J. Marsh, The Lancet Psychiatry Editor, London
Part 1 writing the paper, Part 2 Peer Review

Workshop 3
Clinical Case presentations from the GENERATE network
D. Endres, & L. Tebartz van Elst, Freiburg, Germany
6:45 pm - Dinner Buffet / Entrance area

Thursday Evening

Location: Schloss Reisensburg / Roter Saal

7:30 – 9:00 pm

Welcome Addresses
Thomas Becker (Ulm University/Director BKH Günzburg)
The Organizers

Special Lectures:
Chairs: Karl Bechter, Bernhard Bogerts

The brain barriers maintain CNS immune privilege
B. Engelhardt, Bern, Switzerland

CNS autoantibodies- from the beginning discovery to now
A. Vincent, Oxford, UK
Location: Festsaal Bezirkskrankenhaus Günzburg

8:30 – 10:30 am - Symposium 1: Novel Immune biomarkers in psychiatric disorders (Chairs: N. Müller, J. Steiner)

Glial imaging in mood disorders
J. Meyer, Toronto, Canada

Immune, kynurenine and glutamate dysfunction in depression - plasma, CSF and neuroimaging profiles
E. Haroon, Atlanta, USA

Applications of free water imaging across the psychosis spectrum
A. Lyall, Boston, USA

Casp1, Ifngr and Nos2 genes alter depressive-, anxiety-like behaviour and gut microbiota
M.-L. Wong, Antonio Inserra, J. Choo, M. D Lewis, G. B Rogers, J. Licinio, New York, USA, Adelaide, Australia

Classification of first episode psychosis and chronic psychosis patients using the immunological transcriptome profile in a large cohort of patients: a machine learning analysis.
P. Enrico, Milan, Italy,

10:30 – 11:00 am - Coffee break

11:00 – 12:45 am - Symposium 2: Regulation of immune system and plasticity in major depression (Chairs: T. Frodl, K. Bechter)

Targets of the kynurenine pathway and glutamate for major depression
A. Harkin, Trinity College Dublin

The stress hormone system, epigenetic regulation and effects on brain functioning in depression
T. Frodl, Otto von Guericke University of Magdeburg, Germany

JNK regulation pathway in major psychiatric and neurological disorder
E. Coffey, Turku University, Finland

Epigenetics of stress-related disorders
D. Gescher, Otto von Guericke University of Magdeburg
12:30 – 1:30 pm - Lunch break

1:30 – 3:30 pm - Symposium 3 (15 Min oral presentation, 15 Min discussion at the end)

Updates from the Danish studies on ImmunoPsychiatry – Large-scale studies on exposures from the microbiome to the CSF and the impact of immunogenetics and potential of anti-inflammatory agents in the treatment of mental disorders (Chairs: M. Benros, K. Bechter)

Birth by cesarean sectio including a multiple hits model with exposure to subsequent infections that can impact the microbiome and relation to mental disorders
A. Skovgaard, Copenhagen, Denmark

Vagotomy and the risk of mental disorders in a nationwide study – is the vagal nerve of importance to mental disorders and the gut-brain axis?
A. Bunyoz, Copenhagen, Denmark

Systematic review of all microbiome studies in psychotic and affective disorders compared to healthy controls
N. Sørensen, Copenhagen, Denmark

Mononucleosis and the risk of depression
N. Sørensen, Copenhagen, Denmark

CSF test results on a population level and associations with mental disorders
S. Orlovska, Copenhagen, Denmark

Meta-analysis of all placebo-controlled RCT’s investigating anti-inflammatory treatment effects in psychotic disorders
R. Jeppesen, Copenhagen, Denmark

Immunogenetics – genetic associations between autoimmune diseases and mental disorders, and do duffy-null carriers have more infections?
M. E. Benrós, Copenhagen, Denmark

3:30 – 4:00 pm - Coffee break
4:00 – 6:00 pm - Symposium 4: Autoimmune psychiatric disorders, diagnosis and management towards personalisation, part I (Chairs: L. Tebartz van Elst, P. Brambilla)

Seronegative autoimmune psychiatric disorders masquerading as primary psychiatric illnesses: diagnostic and therapeutic challenges
S. Najjar, New York/USA

The microbiome
F. Dickerson, R.H. Yolken, Baltimore / USA

Immunogenomics and therapy response
B. Baune and group, Muenster, Germany

Nutritional Neuroscience as Mainstream of Psychiatry: International Society for Nutritional Psychiatry Research (ISNPR) Practice Guidelines for Omega-3 Fatty Acids in Major Depressive Disorder
K.-P. SU, Taichung, Taiwan

Vitamin D and the Brain: a psychoimmunological perspective
U. Meier, London, UK

Location: Schloss Reisensburg

7:00 pm - Dinner (on own order)

Location: Schloss Reisensburg / Roter Saal

8:15 – 9:00 pm

Special lecture with open discussion
  • Chairs.: Britta Engelhardt/ Karl Bechter

Human microglia and relevant biomarkers in psychiatric disorders
  Behaviors
L. Tian, Y. Tan, S. Chen, Tartu, Estonia

The specific neuroinflammatory environment of the midbrain compared to other brain areas
Marisol Aymerich, Pamplona, Spain
Location: Festsaal Bezirkskrankenhaus Günzburg

9:00 – 10:30 am - Symposium 5: Autoimmune psychiatric disorders, diagnosis and etiology (Chairs: S. Najjar, B. Bogerts)

Naturally occurring autoantibodies against the N-methyl-D-aspartate-receptor subunit NR1 (NMDAR1): Inducers and functions
H. Ehrenreich, H. Pan and J. Wilke

MicroRNA profiling supports chronic type I interferon exposure as potential trigger for viral-induced pathogenesis of psychiatric disorders
C. Scheiber, H. C. Klein and E. M. Schneider, Ulm, Germany

A case with borna virus infection
S. Herzog, Giesen, Germany

10:30 – 11:00 am - Coffee break
11:00 – 12:45 pm - Symposium 6: Consensus Paper and concept discussion (Chairs: A. Vincent, N. Müller)

Development of a position paper and consensus criteria for autoimmune psychosis: controversies, compromises and new horizons
T. Pollak, London, UK

The challenges of mild neuroinflammation-from a conceptual and methodological prospective
K. Bechter, Ulm, Germany

System-Autoimmune Disorders and connections to mental disorders
D. Brown, Sidney, Australia

Proposal of a new clinical nosology of psychotic disorders
L. Tebartz van Elst, Freiburg, Germany

12:45 – 1:30 pm - Lunch break / Posters Chair: Francesco Benedetti

1:30 – 3:30 pm - Symposium 7: Autoimmune evidence in major psychosis from post-mortem, glial and system approaches (Chairs: H Klein, F. Benedetti)

Brain mapping of T and B lymphocyte distribution in schizophrenia and mood disorders: a quantitative post-mortem investigation
K. Schlaaff, H. Dobrowolny, T. Frodl, C. Mawrin, T. Gos, J. Steiner, B. Bogerts

Increase of neutrophil granulocyte and monocyte counts and respective activation markers in acute first-episode psychosis and schizophrenia
J. Steiner, Magdeburg, Germany

Immunometabolic changes in first episode psychosis – results from the Helsinki Early Psychosis Study”
Outi Mantere, Montreal, Canada

Understanding the role of microglia in antipsychotic treatment
Daniel Martins-de-Souza, Campinas, Brazil

Materno-fetal transfer of the human autoantibodies: a novel neurodevelopmental congenital brain disorder
H. Pruess, Berlin, Germany
3:30 – 4:00 pm  - Coffee break

4:00 – 6:00 pm  - Symposium 8: WPA Section Immunology & Psychiatry Symposium (Chairs: A. Halaris, B. Leonard)

Arginine Pathway: its Relationship to Inflammation and Depression
A. Halaris, Chicago, USA

Experimental Psychoimmunology (title to be specified)
B. Leonhard

Mood stratification EU-project, outline and progress
H. Drexhage, Rotterdam, Netherlands, and several EU project partners

Impact of immune response on the bioavailability of neurotransmitter molecules
D. Fuchs, Innsbruck Austria

Location: Schloss Reisensburg

7:00 pm  - Dinner & Music

Posters
Presented throughout the meeting near the main sessions room

Will be submitted until start of the meeting to allow late breaking findings to be presented by young scientists

- Saskia Schirmer: Präventionsprogramme in Bezug auf stressbezogene psychische Erkrankungen
- Sabine Müller: Ethical discussion of immune treatment of patients with possible autoimmune encephalitis but negative antibody test........
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Abstracts
of the 14th Psychoimmunology Expert Meeting please find free online at
https://www.sciencedirect.com/journal/neurology-psychiatry-and-brain-
research/vol/29/suppl/C

Auto antibodies towards LBP are elevated in patients with psychiatric
diseases

David Just\textsuperscript{1,2}, Annica Rasmusson\textsuperscript{3}, Peter Nilsson\textsuperscript{2}, Janet L. Cunningham\textsuperscript{1}

\textsuperscript{1}Department of Neuroscience, Psychiatry Uppsala University, Sweden
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\textsuperscript{3}Department of Medical Sciences, Clinical Pharmacology and
Osteoporosis, Uppsala University, Uppsala, Sweden

Food intolerances observed in patients with ADHD

Frey Lukas, Beiner Lisa, Yorgidis Elena, Schneider-Momm Katja,
Clement Christina, Clement Hans-Willi, Schulz Eberhard, Fleischhaker
Christian

University Medical Center Freiburg, Department of Child and Adolescent
Psychiatry, Psychotherapy and Psychosomatics, Center of Mental
Disorders

The inter-relationship between inflammation and autophagy in
schizophrenia

Cai Song, Ling Yan, Haifeng Yan, Yong-Ping Zhang
Research Institute for Marine Drug and Nutrition and Shenzhen
Institute, Guangdong Ocean University

TITLE: Nutritional Neuroscience as Mainstream of Psychiatry:
International Society for Nutritional Psychiatry Research
Experimental sepsis-associated encephalopathy alters cortical perfusion and white matter water diffusion in the absence of blood-brain barrier breakdown: relationships to changes in cyclooxygenase-2 expression and glial cell morphology

Ibtihel Dhaya\textsuperscript{1,2}, Marion Griton\textsuperscript{3}, Renaud Nicolas\textsuperscript{1,4}, Gérard Raffard\textsuperscript{1,4}, Olivier Periot\textsuperscript{1,4}, Bassem Hiba\textsuperscript{1,4} & Jan Pieter Konsman\textsuperscript{1,4}
\textsuperscript{1} University of Bordeaux, \textsuperscript{2} University of Tunis El Manar, \textsuperscript{3} University Hospital Bordeaux, \textsuperscript{4} CNRS

Classification of first episode psychosis and chronic psychosis patients using the immunological transcriptome profile in a large cohort of patients: a machine learning analysis.

Enrico P\textsuperscript{1,2}, Delvecchio G\textsuperscript{2}, Bellani Marcella\textsuperscript{c,f}, Turtulici N\textsuperscript{2}, Colombo G, Finardi A, Villa FM, Cinzia Perlini\textsuperscript{c,f}, Gloria Rossetti\textsuperscript{c}, Lasalvia Antonio\textsuperscript{c,f}, Bonetto Chiara\textsuperscript{c}, Cristofalo Dorian\textsuperscript{c}, Scocco Paolo\textsuperscript{b}, Torresani Stefano\textsuperscript{i}, Imbesi Massimiliano\textsuperscript{k}, Bellini Francesca\textsuperscript{l}, Veronese Angela\textsuperscript{h}, Matteo Balestrieri, Ruggeri Mirella\textsuperscript{c,f}, Furlan R, Brambilla P\textsuperscript{1,2}, the GET UP Group

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Sunday, March 29, 2020

Location: Schloss Reisensburg

9:00 – 11:00 am  Workshops

CSF Research, continued

11:00 – 12:30 Workshops

Strategies for EU Funding

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FESTSAAL

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