

14th Psychoimmunology Expert Meeting

March 22 -25, 2018

**Neuroinflammation in Psychiatry –
from basic research to psychopathology**

Final Program



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

Organizers

Prof. Karl Bechter, Günzburg/Ulm
Prof. Bernhard Bogerts, Magdeburg
Prof. Hans Klein, Groningen
Prof. Johann Steiner, Magdeburg

Scientific Board

Prof. Francesco Benedetti, Milano	Prof. Angelos Halaris, Maywood
Prof. David Brown, Sydney	Prof. Michael Benros, Copenhagen
Prof. Norbert Müller, München	Prof. Souhel Najjar, New York
Prof. Hannelore Ehrenreich, Göttingen	Prof. Hansotto Reiber, Sao Paulo
Prof. Thomas Frodl, Magdeburg	Prof. Robert Yolken, Baltimore

supported by

Deutsche Forschungsgemeinschaft
Bezirkskliniken Schwaben - BKH Günzburg
Stiftung Immunität und Seele

Thursday, March 22, 2018

Location: Schloss Reisenburg

3:00-4:30 pm

CSF diagnostics course by Hansotto Reiber

Cerebrospinal fluid analysis for diagnostics and research:
Basic analyses and their interpretation base, the cumulative data report and disease-related typical data patterns

4:30 – 7:00 pm Registration

5:00 – 6:30 pm Workshops

Workshop 1

Publishing and peer review in psychiatry

Joan Marsh, Lancet Psychiatry, Editor

Workshop 2

CSF flow and outflow-possible modulating role in neuroinflammation

Chairs: Karl Bechter, Vartan Kurtcuoglu

Serum proteins in human CSF increase due to decreasing CSF flow rate and leave with CSF primarily via Arachnoid villi and nerve roots. Biophysical facts and physiological plausibilities
H Reiber, Sao Paulo/Brasil

Differentiating causes of CSF protein increase: Barrier dysfunction or drainage reduction?
M. Asgari, D. de Zélicourt, V. Kurtcuoglu, Zürich/Switzerland

Rapid outflow through lymphatic vessels limits the spread of cerebrospinal fluid to the paravascular spaces of the brain
Q. Ma, M. Ries, S. T. Proulx, Zürich/Switzerland

A link from mild encephalitis to systemic pathology via CSF outflow along nerves
K. Bechter, Günzburg/Germany

Imaging CSF outflow along peripheral nerves in patients
Bernd Schmitz, Günzburg,Ulm/Germany

Discussants: *A. Kertser, A. Vincent, E. Weihe, R. Furlan, F. Benedetti*

6:45 pm - Dinner Buffet / Entrance area

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

To protect or to kill: the immune system Darwinian dilemma

H. Besedovsky, A. del Rey, Marburg/Germany

Systemic immunity protects the mind: Can immune checkpoint blockade combat Alzheimer's disease?

A. Kertser, M. Schwartz, Rehovot/Israel

Friday, March 23, 2018

Location: Festsaal Bezirkskrankenhaus Günzburg

8:30 – 10:30 am - Symposium 1

Autoimmunity in psychiatric diseases

Chairs: Johann Steiner, Angela Vincent

Monoclonal human auto-antibodies: novel tools for the understanding of neuropsychiatric symptoms

H. Prüss, Berlin/Germany

Diagnosis and management of patients with psychiatric presentations and antineuronal cell surface antibodies: suggestions for clinical practice

B. R. Lennox, Oxford/UK

Uncoupling the widespread occurrence of anti-NMDAR1 autoantibodies from neuropsychiatric disease in a novel autoimmune model

H. Pan, B. Oliveira, G. Saher, E. Dere, D. Tapken, M. Mitjans, J. Seidel, J. Wesolowski, D. Wakhloo, C. Klein-Schmidt, A. Ronnenberg, K. Schwabe, R. Trippe, K. Mätz-Rensing, S. Berghoff, Y. Al-Krinawe, H. Martens, M. Begemann, W. Stöcker, F.-J. Kaup, R. Mischke, S. Boretius, K.-A. Nave, J. K. Krauss, M. Hollmann, F. Lühder, H. Ehrenreich, Göttingen/Germany

Neuronal autoantibodies shape symptomatology, cognitive function and brain structure in subjects at ultra-high risk for psychosis

T. Pollak, C. Ivegbe, M. Kempton, S. Irani, A. Vincent, J. Stone, A. David, P. McGuire, London/UK

Modelling neuronal cell surface antibody-mediated diseases in vivo – which is the best approach?

A. Vincent, Oxford/UK

10:30 – 11:00 am - Coffee break

11:00 – 12:30 am - Symposium 2

General aspects of neuroinflammation in psychiatric diseases (II)

Chairs: Cyndi Shannon Weickert, Bernhard Baune

Potential surrogate markers of central nervous system inflammation in cerebrospinal fluid in the diagnosis of autoimmune encephalitis

D. A. Brown, J. Jiang, S. Ramanathan, R. Silvestrini, A. Bleasel, L. Wienholt, N. Fewings, S. Dumas, M. Silsby, K. Yin, A. Fois, M.-W. Lin, Sydney/Australia

Identification of the primary self-antigens of neurodegenerative and psychiatric diseases

P. de Haan, Leiden/Netherlands

Hit once, twice or thrice...longitudinal molecular, structural and functional brain changes following childhood maltreatment

B. T. Baune, Adelaide/Australia

The inflammasome and the Microbiota-Gut-Brain Axis

M.-L. Wong, Syracuse/USA

Food intolerance and ADHD

K. Schneider-Momm, I. Kaiser, L. Overdick, N. Blazynski, C. Clement, H.-W. Clement, E. Schulz, C. Fleischhaker, Freiburg/Germany

12:30 – 1:30 pm - Lunch break / Posters

1:30 – 3:30 pm - Symposium 3

Neuroinflammation in psychotic syndromes (I)

Chairs: David Brown, Ludger Tebartz van Elst

The role of inflammation and hypovitaminosis-D in multiple sclerosis, schizophrenia and autism

E. Kocovska, M. Mickunas, C. Ramien, J. Bonner, B. Milleit, S. Smesney, M. Absoud, M. Lim, G. Disanto, S. Ramagopalan, V. Roessner, T. Nicholson, F. Gaughran, A. Krivoy, U. Meier, London/UK

Myelin-associated catatonia and its treatment by CSF1 receptor inhibition

H. Janova, S. Arinrad, E. Balmuth, M. Mitjans, J. Hertel, M. Habes, R. Bittner, H. Pan, S. Goebbels, M. Begemann, U. C. Gerwig, S. Langner, H. B. Werner, S. Kittel-Schneider, G. Homuth, C. Davatzikos, H. Völzke, B. L. West, A. Reif, H. J. Grabe, S. Boretius, K.-A. Nave, H. Ehrenreich, Göttingen/Germany

Cerebrospinal fluid alterations in patients with schizophreniform and other psychiatric disorders

D. Endres, L. Tebartz van Elst, Freiburg/Germany

Stratifying people with schizophrenia based on elevated cytokine level may be necessary for defining pathophysiology

C. Shannon Weickert, Sydney/Australia

Microparticle-derived miRNA released from pro- and anti-inflammatory macrophages enriched from blood in patients with affective disorders and schizophrenia

S. Paschke, P. Sander, M. Strunz, K. Bechter, M. Schneider, Ulm/Germany

The Impact of inflammation in First Episode Psychosis

S. Foteli, K. Kollias, A. Hatzimanolis, A. Ioannidis, M. Zogka, D.G. Vavougiou, E. Rizos, C. Nikolaou, N. Stefanis, Athens / Greece

3:30 – 4:00 pm - Coffee break

4:00 – 6:00 pm - Symposium 4

Neuroinflammation in psychotic syndromes (II)

Chairs: Souhel Najjar, Bob Yolken

Uncovering immune pathways in schizophrenia - a multidisciplinary approach
M. Morrens, S. Erhardt, Antwerp/Belgium; Stockholm/Sweden

Studies on biomarkers in the cerebrospinal fluid of twins with schizophrenia or bipolar disorder - future prospects
V. Johansson, Stockholm/Sweden

Documenting and treating a dysregulated gut-immune-brain axis in schizophrenia
E. G. Severance, F. Dickerson, R. H. Yolken, Baltimore/USA

Heterogeneity of schizophrenic disorders and link to chronically elevated IgM values
H. H. Stassen, Zurich/Switzerland

New concepts in the pathophysiology and diagnosis of seronegative autoimmune psychosis; Proposed multi-modal diagnostic approach and classification
S. Najjar, New York/USA

A Trial of Adjunctive Probiotic Microorganisms to Prevent Relapse in Patients with Acute Mania
F. Dickerson, R.H. Yolken, Baltimore / USA

Location: Schloss Reisensburg

7:00 pm - Dinner (on own order)

Location: Schloss Reisensburg / Roter Saal

8:15 – 9:00 pm

Special lecture with discussion

Chair: Bernhard Bogerts

The beginning and the end of schizophrenia- A neuropsychiatric perspective of the schizophrenia concept
L. Tebartz van Elst, Freiburg/Germany

Discussants: *Cyndi Shannon Weickert, David Brown, Souhel Najjar, Karl Bechter, Bernhard Baune, Norbert Müller, Hans Steiner*

Saturday, March 24, 2018

Location: Festsaal Bezirkskrankenhaus Günzburg

9:00 – 10:30 am - Symposium 5

Infections and Neuroinflammation (I)

Chairs: Hannelore Ehrenreich, Michael Benros

Autoantibody test results and immunogenetics in relation to mental disorders
M. E. Benrós, Copenhagen/Denmark

Parental infections during fetal life and risk of mental disorders in the child -
a nationwide Danish study
C. Lydholm, Hellerup/Denmark

CNS infections and the risk of mental disorders - nationwide Danish study
E. M. J. Pedersen, Hellerup/Denmark

Infection and the risk of mental disorder, including immune markers at disease onset
and new meta-analysis of anti-inflammatory treatment
O. Köhler-Forsberg, Risskov/Denmark

Systematic review and meta-analysis of all immune-related CSF studies
S. Orlovska, Hellerup/Denmark

Possible involvement of infectious agents in treatment resistant bipolar depression
A. Halaris, R. R. Yolken, Chicago / Baltimore USA

10:30 – 11:00 am - Coffee break

11:00 – 12:45 pm - Symposium 6

Infections and Neuroinflammation (II)

Chairs: Hans Klein, Douglas A. Drevets

Neuroinvasive *Listeria monocytogenes* infection of mice triggers an interferon
activation signature in microglia that is positively regulated by miR-155
D. A. Drevets, A. F. Gillaspay, J. R. Gipson, J. A. Stoner, M. Zhang, Oklahoma/USA

Loss of cerebellar neurons in the progression of lentiviral disease: effects of CNS-
permeant antiretroviral therapy
E. Weihe, C. Wächter, LE Eiden, N. Naumann, C. Depboylu, Marburg/Germany

Herpes Simplex Virus Abortive Replication in the Brain in Schizophrenia
H. C. Klein, Groningen/Netherlands

Differential Immune Responses to Epstein Barr Virus in Schizophrenia, Bipolar Disorder, and Major Depression
R. H. Yolken, Baltimore/USA

The new EU Horizon Project Moodstratification
H. A. Drexhage, Rotterdam/Netherlands

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

1:30 – 3:30 pm - Symposium 7

Neuroinflammation in affective disorders (I)

Chairs: Norbert Müller, Thomas Frodl

Mapping of lymphocyte densities in postmortem brains of schizophrenic and depressed patients. Evidence of neuroinflammation in subgroups of patients.
B. Bogerts, K. Schlaaff, H. Dobrowolny, T. Frodl, J. Steiner, Magdeburg/Germany

Immune profiling in the peripheral blood of patients with affective and non-affective disorders
A. Finardi, S. Di Toro, P. Brambilla, F. Benedetti, R. Furlan, Milano/Italy

Depicting regional microglial activation and its importance for anxiety-related behaviors
S. Piirainen, K. Bisht, M.-E. Tremblay, L. Tian, Helsinki/Finland

Peripheral neuroinflammatory predictors of suicidal risk at time of discharge in adolescents
T. Falcone, Cleveland/USA

Inflammation-induced increases myo-inositol as a potential biomarker of astroglial dysfunction: Association with decreased regional homogeneity and functional connectivity in patients with major depression
E. Haroon, Atlanta/USA

Brain imaging and markers of neuroinflammation in depression
T. Frodl, Magdeburg / Germany

3:30 – 4:00 pm - Coffee break

4:00 – 6:00 pm - Symposium 8

Neuroinflammation in affective disorders (II)

WPA section Immunology & Psychiatry symposium

Chairs: Angelos Halaris, Francesco Benedetti

Low parasympathetic tone by heart rate variability and higher inflammation differentiates bipolar from major depression

A. Halaris, Chicago/USA

Autonomic cardiac modulation in depression and borderline personality disorder – effects of inpatient care

K. Hoesl, M. Hilz, T. Hillemacher, L. Geiss, Nürnberg/Germany

The association of acute and chronic somatic disease, depressive symptoms and neurotransmitter precursor monamine levels

K. Hüfner, D. Fuchs, M. Blauth, B. Sperner-Unterweger, Innsbruck/Austria

Microglial imaging in affective disorders

J.H. Meyer, Toronto / Canada

Autoimmune dysfunctions in schizophrenia and affective disorders

K.J. Bär, Jena/Germany

Chronic stress promotes the expression of lung cancer-related factors after exposing A/J mice to smoke: involve the inflammation and growth factors

C. Song, B-P. Liu, Y-P. Zhang, C. Zhang, Zhanjiang/China

Location: Schloss Reisensburg

7:00 pm - Dinner & Music

Sunday, March 25, 2018

Location: Schloss Reisensburg

9:00 – 11:00 am Workshops

Workshop 3

Chronic diseases – a complexity approach to pathology and therapy

Chair: Hansotto Reiber

Workshop 4

Mechanisms of neuroprogression and interventions to predict or arrest it

Chairs: Angelos Halaris, Cai Song

Posters

Hunting for signs of autoimmunity - Introducing a new symptom based questionnaire for autoimmunity and environmental factors

A. Mack, K. Bechter, Günzburg/Germany

Catechol-O-methyltransferase gene (COMT), mono-amine oxidase A (MAO-A), and Toll-like-receptor polymorphisms related to chronic borreliosis and secondary diseases

T. Hein, P. Sander, J.-O. Reinhardt, A. Giryas, M. Schneider, Ulm/Germany

Deficiency of CD163 positive repair macrophages and frequencies of the functional polymorphism of the Interleukin-6 promotor (rs1800795) in patients with chronic borreliosis.

P. Sander, T. Hein, J.-O. Reinhardt, A. Giryas, M. Schneider, Ulm/Germany

T- and B-lymphocytes in brain tissue of residual schizophrenia and bipolar disorder indicate neuroinflammation

K. Schlaaff, H. Dobrowolny, T. Frodl, J. Steiner, B. Bogerts, Magdeburg/Germany

Inducing a stressed phenotype by adoptively transferring CD4⁺ lymphocytes from psychosocially-traumatized mice

M. Amoroso, P. Gross, D. Langgartner, S. Förtsch, S. O. Reber, Ulm, Regensburg/Germany

Long-term effects of chronic psychosocial stress on social and general anxiety depending on the sensory contact to the stressor

S. Foertsch, D. Langgartner, E. Zitzelsperger, U. Bogdahn, S. Peters, S. O. Reber, Ulm, Regensburg/Germany

Tryptophan breakdown affects cortical thickness in bipolar disorder

S. Poletti, V. Aggio, S. Comai, F. Benedetti, Milano/Italy

Kynurenine pathway associates to white matter microstructure in bipolar disorder

E. M. Melloni, S. Poletti, S. Comai, V. Aggio, I. Bollettini, F. Valtorta, F. Benedetti, Milano/Italy

Peripheral inflammatory markers associate with cortical thickness measures in bipolar patients

V. Aggio, S. Poletti, E. M. Melloni, G. Leone, H. Drexhage, F. Benedetti, Milano/Italy

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>

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The map shows the campus layout with buildings numbered 1 through 88. Key landmarks include the 'Krankenhaus' (Hospital) at the bottom, 'Sportplatz' (Sports Field) on the left, and 'Festsaal' (Fest Hall) at the top left. Two red dots with arrows point to specific locations: one labeled 'FESTSAAL' and another labeled 'LUNCH'.

LUNCH