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Autoimmune Psychosis – Infections – Mild Neuroinflammation – from Research to Clinic

16th Psychoimmunology Expert Meeting

March 30 – April 02, 2023

Final Program

bezirkskliniken
schwaben

Venue and address:

Wissenschaftszentrum (Science Center of Ulm University)
Schloss Reisensburg
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World Psychiatric Association, Immunology and Psychiatry Section
German Society of Biological Psychiatry
Sections: Immunology, CSF Research

Organizers

Prof. K. Bechter, Günzburg/Ulm
Prof. T. Frodl, Aachen

Scientific Board

Prof. F. Benedetti, Milano	Prof. N. Müller, München
Prof. M. Benros, Copenhagen	Prof. S. Najjar, New York
Prof. H. Ehrenreich, Göttingen	Prof. J. Steiner, Magdeburg
Prof. D. Endres, Freiburg	Prof. L. Tebartz van Elst, Freiburg
Prof. A. Halaris, Maywood/Chicago	Prof. A. Vincent, Oxford
Prof. H. Klein, Groningen	Prof. R. Yolken, Baltimore

Sponsored by:

DFG 20.000 €
Stiftung 'Immunität und Seele', München 5.000 €
Rovi 1.000 €
Lundbeck 1.000 €
Janssen 500 €



Conference Program Overview

Schedule

Content

Thursday, March 30, 2023

Location: Schloss Reisensburg

4:30 – 7:00 pm Registration / Welcome drinks

5:00 – 6:30 pm Workshops

6:45 pm Dinner Buffet / Entrance area

7:30 – 9:00 pm Opening Session

Friday, March 31, 2023

Location: Festsaal Bezirkskrankenhaus Günzburg

8:30 – 10:30 am [Symposium 1:](#)
Autoimmunity in psychiatric diseases

10:30 – 11:00 am Coffee break

11:00 – 12:30 am [Symposium 2:](#)
Detecting neuroinflammation and consequences in severe mental and neurological disorders

12:30 – 1:30 pm Lunch break / Posters

1:30 – 3:30 pm [Symposium 3:](#)
Detecting neuroinflammation and consequences in severe mental disorders II

3:30 – 4:00 pm Coffee break

4:00 – 6:00 pm [Symposium 4:](#)
Immune mechanisms in neuropsychiatric disorders I

Location: Schloss Reisensburg

7:00 pm Dinner (on own order)

8:15 – 9:00 pm Special lecture with discussion on the international situation of CSF diagnostics in severe mental disorders

Schedule	Content
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Saturday, April 1st, 2023

Location: Festsaal Bezirkskrankenhaus Günzburg

9:00 – 10:30 am	Symposium 8: (changed!) Immune mechanisms in neuropsychiatric disorders II
10:30 – 11:00 am	Coffee break
11:00 – 12:45 am	Symposium 6: Infections and Neuroinflammation
12:45 – 1:30 pm	Lunch break / Posters
1:30 – 3:30 pm	Symposium 7: Neuroinflammation and experimental treatments in affective disorders
3:30 – 4:00 pm	Coffee break
4:00 – 6:00 pm	Symposium 5: (changed!) Neuroinflammation in severe mental disorders

Location: Schloss Reisensburg

7:00 pm Dinner & Music

Sunday, April 2nd, 2023

Location: Schloss Reisensburg

9:00 – 11:00 am Workshops

Free WIFI at BKH:

→ *bks-gast-gz* – no login necessary (just tick the 2 boxes!)

Program online:

→ <https://www.uniklinik-ulm.de/16th-psychoimmunology-expert-meeting>
(scroll down to ‚Aktuelles und Veranstaltungen‘)

Conference Program

Thursday, March 30, 2023

Location: Schloss Reisensburg

4:30 – 7:00 pm Registration

5:00 – 6:30 pm Workshops

From 4:30 pm: Coffee/Welcome drinks and scientific exchange

Workshop 1:

WPA section workshop: Cytokines and beyond: exploring new frontiers

Chair: A. Halaris, Chicago/USA

Inflammation hypothesis of depression by IL-17

K. Bliźniewska-Kowalska, Lodz/Poland

The cholinergic anti-inflammatory pathway

C. Schiweck, Frankfurt/Germany

Single nucleotide polymorphisms contribute to treatment resistant depression: effect of anti-inflammatory treatment

A. Halaris, Maywood/USA

DNA methylation links between depression and immunity

M. Herrera-Rivero, K. Gutiérrez-Fragoso, M. Stoll, B.T. Baune (cancelled), K. Berger, Hidalgo/Münster/Mexico/Germany

Workshop 2: CSF diagnostics in psychiatry – an update

Chairs: D. Endres, Freiburg/Germany, M. Benros, Copenhagen/Denmark

Detecting mild neuroinflammation in the cerebrospinal fluid of patients with psychosis

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

Liquid-biopsy based Multi-Omics Technologies ready to be used in

Psychoimmunology

U. Kegler, M. Hofner, S. Schönthaler, W. Pulverer, A. Weinhäusel, K. Vierlinger,

C. Nöhammer, Vienna/Austria

CNS damage biomarkers in cerebrospinal fluid and other findings from a patient cohort enriched for suspected autoimmune psychiatric disease

J. Cunningham, Uppsala/Sweden

What do the frequent CSF abnormalities in severe mental disorders mean?

K. Bechter, Ulm and Günzburg/Germany

Workshop 3: Food Sensitivities in Attention-Deficit/Hyperactivity Disorder – Treatment approaches by oligo-antigenic diet

with presentations by C. Clement, Freiburg/Germany

and E. Severance (cancelled), Baltimore/USA

Nutritional Psychiatry - an emerging field of interprofessional health science

A. Müller-Stierlin, Ulm and Günzburg/Germany

6:45 pm - Dinner Buffet / Entrance area

Location: Schloss Reisensburg / Roter Saal

7:30 – 9:00 pm Opening Session

Welcome Addresses

The Organizers

Special Lectures:

Chairs: K. Bechter, Ulm and Günzburg/Germany, T. Frodl, Aachen/Germany

SARS-CoV-2, the blood-brain barrier, and neuroinflammation

W. Banks, Seattle/USA

Transformed understanding of brain-immune cross-talk in health, aging and disease

M. Schwartz, Tel Aviv/Israel

Conference Program

Friday, March 31, 2023

Location: Festsaal Bezirkskrankenhaus Günzburg

8:30 – 10:30 am Symposium 1

Symposium 1

Autoimmunity in psychiatric diseases

Chairs: T. Pollak, London/UK, B. Diamond, Manhasset/USA

Spectrum of novel CSF antibodies in probable immunological psychotic and affective disorder

L. Tebartz van Elst, Freiburg/Germany

Factors predisposing to humoral autoimmunity against brain-antigens in health and disease: Analysis of 49 autoantibodies in over 7000 subjects

H. Ehrenreich, V. Daguano Gastaldi, J. Wilke, Göttingen/Germany

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

H. Prüss, Berlin/Germany

Autoimmune obsessive-compulsive disorder

D. Endres, Freiburg/Germany

Functional Immune Genomics

B.T. Baune (cancelled!), Münster/Germany

10:30 – 11:00 am Coffee break

11:00 – 12:30 am Symposium 2

Symposium 2

Detecting neuroinflammation and consequences in severe mental and neurological disorders

Chairs: S. Najjar, New York/USA (cancelled!), T. Frodl, Aachen/Germany

Immunopsychiatry after COVID-19

F. Benedetti, Milan/Italy

Post-COVID-syndromes: insights from brain imaging

J. A. Hosp, Freiburg/Germany

In vivo neuroimaging of the choroid plexus to characterize neuroinflammation in restrictive eating disorders

(L. Breithaupt - remote?), Boston/USA

Impaired glymphatic clearance in neuropsychiatric Long-COVID syndrome

B. Besteher, J. Kantola, M. Li, M. Machnik, Ph. Reuken, K. Finke, M. Walter, V. Kiviniemi, Jena/Germany

No cure, no care? Diagnostic and therapeutic challenges in rare neuropathic pain syndromes

M. Dohrn, C. Dumke, I. Kurth, S. Züchner, Aachen/Miami/Germany/USA

12:30 – 1:30 pm Lunch break / Poster Session

Symposium 3

Detecting neuroinflammation and consequences in severe mental disorders II

Chairs: F. Benedetti, Milan/Italy, H. Ehrenreich, Göttingen/Germany

From Blue to Grey: Depression, Inflammation and Neurodegeneration

E. Haroon, Atlanta/USA

Convergence of Biotechnology and Psychiatry

T. Frodl, Aachen/Germany

Identification of an inflammation-associated psychosis onset subgroup by applying unsupervised machine learning to whole-blood expression levels of immune gene transcripts

P. Enrico, Milan/Italy

Serum levels of neurofilament light-chain (NfL), a biomarker of axonal and synaptic damage, predict 5-year outcome in acutely ill schizophrenia patients

J. Steiner, Magdeburg/Germany

Noninvasive measurement of head dielectric properties as a novel method for monitoring intracranial volume variations

A. Boraschi, A. Spiegelberg, F. Karimi, M. Capstick, A. Fallahi, E. Neufeld, N. Kuster, V. Kurtcuoglu, Zurich/Switzerland

3:30 – 4:00 pm Coffee break
4:00 – 6:00 pm Symposium 4

Symposium 4

Immune mechanisms in neuropsychiatric disorders I

Chairs: T. Frodl, Aachen/Germany, N. Müller, Munich/Germany

A single-health system retrospective case series of electroconvulsive therapy for catatonic syndrome associated with anti-NMDAR encephalitis and new-onset psychosis of suspected immune origin

*S.N. Sanghani, C. Fernandez-Carbonell, S.V. Kothare, S.V. Proteasa, M. Gordon, H. Azizi, A.L. Mastrangelo, G. Petrides, **S. Najjar (cancelled)**, Hofstra/New York/USA*

Autoantibodies, routine and novel markers of neuroinflammation in people with atypical psychiatric disease

***J.X. Jiang**, N. Fewings, P. Gatt, S. Dervish, M. Silsby, A.F. Fois, St. Duma, S. Bandodkar, S. Ramanathan, A. Bleasel, B. John, A. Harris, M.-W. Lin, D. Brown, Westmead/Sydney/Australia*

The role of antibodies and brain barrier functions in mental disorders from systemic autoimmunity

***B. Diamond**, Manhasset/USA*

Results of RIPOD (risk of postpartum depression) study: postpartum follow-ups, risk factors and prediction for clinical cases, and multimodal neuroimaging data

***N. Chechko**, S. Stickel, L. Hahn, P. Schnakenberg, J. Dukart, S. Eickhoff, Aachen/Germany*

Location: Schloss Reisensburg

7:00 pm Dinner (on own order)

**8:15 – 9:00 pm Special lecture with discussion on the international
situation of CSF diagnostics in severe mental disorders**

**Special lecture with discussion on the international situation of CSF
diagnostics in severe mental disorders**

*Chair Th. Frodl + discussants: R. Yolken (remote), USA, E. Haroon, USA, A.
Vincent, UK (remote), N. Müller, Germany, T. Pollak, UK, L. Tebartz van Elst,
Germany, F. Benedetti, Italy, H. Klein, The Netherlands, K. Bechter, Germany and all*

CSF findings in mental disorders – from largescale to detailed clinical studies
M. E. Benros, Copenhagen/Denmark

Conference Program

Saturday, April 1st, 2023

Location: Festsaal Bezirkskrankenhaus Günzburg

9:00 – 10:30 am Symposium 5 (→ 8)

>> CHANGED!! -- Symposium 8

Neuroinflammation in severe mental disorders

Chairs: A. Halaris, Illinois/USA, F. Benedetti, Milan/Italy

The interaction between autophagy and inflammation in Schizophrenia: insight into mTOR-PI3K/Akt pathways and glial phenotype expression

C. Song, X.-N. Wang, L. Yan, H.-Y. Wang, C.-H. Wang, Zhanjiang/China

Sexual Dimorphism of Microglia in High Trait Anxiety with a Particular Focus on Synaptic Pruning

B. Ugursu, A. Sah, S. B. Sartori, H. Kettenmann, N. Singewald, S.A. Wolf
Berlin/Germany

Deciphering Microglia-Synapse Interaction in Neuroligin-4 Knockout mouse model of Autism Spectrum Disorder

S. Wolf (*cancelled*), B. Ugursu, H. Kettenmann, *Berlin/Germany*

Innate and adaptive immune components in psychosis

L. Tian (*remote*), *Tartu/Estonia*

10:30 – 11:00 am Coffee break

11:00 – 12:45 pm Symposium 6

Symposium 6:

Infections and Neuroinflammation

Chairs: D. Drevets, Oklahoma City/USA, U-C Meier, Munich/Germany

Covid-19 and neuropsychiatric complications

V. Nersesjan, *Copenhagen/Denmark*

Cumulative Roles for different Viruses in Driving an Inflammatory Cascade
Underlying MS Pathogenesis

U.-C. Meier, *R. C. Cipian, A. Karimi, R. Ramasamy, J. Middeldorp Munich/Germany*

Systemic infection of mice with neuroinvasive *Listeria monocytogenes* triggers
cognitive decline and persistent increases in brain CD8+ T-lymphocyte populations

B. R. Cassidy, S. Logan, J. Farley, D. Owen, W. E. Sonntag, D. Drevets, Oklahoma City/USA

Inflammatory macrophages in patients with fatigue

M. Schneider, *J. M. Schneider, C. Scheiber, C. Li, K. Föhr, J. M. Steinacker, K. Bechter, Ulm/Germany*

Plasma autoantibodies in patients with Affective and Schizophrenic Spectrum
Disorders

C. Scheiber, *A. Dulcovic, K. Bechter, E. M. Schneider, Ulm/Germany*

Is a herpes viral protein responsible for foci of alarming presence of T cells in the
brain of schizophrenia patients?

H. Klein, *Groningen/The Netherlands*

12:45 – 1:30 pm Lunch break / Poster Session

Chair: F. Benedetti

1:30 – 3:30 pm Symposium 7

Symposium 7:

Neuroinflammation and experimental treatments in affective disorders

Chairs: N. Müller, Munich/Germany

Whole body Hyperthermia for the treatment of depression

M. Schäfer, Essen/Germany

The gut-brain-crosstalk- the vagal nerve and the gut-brain axis in major depression

S. Mörtl, Graz/Austria

Tolerization for treating neurodegenerative and psychiatric diseases

P. de Haan, Leiden/The Netherlands

Towards biomarker-based personalized medicine in psychiatry: an individual-level participant data meta-analysis of anti-inflammatory add-on treatment for psychotic disorders

E. Orbe, Copenhagen/Denmark

Immune cell alterations in patients with psychosis: A comprehensive systematic review and meta-analysis

M. Clausen, Copenhagen/Denmark

3:30 – 4:00 pm Coffee break

4:00 – 6:00 pm Symposium 8 (→ 5)

>> CHANGED!! -- Symposium 5:

Immune mechanisms in neuropsychiatric disorders II

Chairs: R. Yolken (cancelled, remote?), Baltimore/USA, J. Steiner, Magdeburg/Germany

Elevated risk for new-onset psychiatric disorders in vulnerable populations harboring gut-brain axis dysfunction in a large US study of medical records

E. Severance (cancelled), *F. Dickerson, R. Yolken, Baltimore/USA (all remote?)*

Response to the COVID-19 Vaccine in Persons with Schizophrenia and Other Serious Mental Illnesses

F. Dickerson, R. Yolken, Baltimore/USA (remote?)

The state of the art in the EU-project MOODSTRATIFICATION

H. Drexhage, Rotterdam/The Netherlands

Personalized immune diagnostics: Epitope mapping of the immunome

M. Szardenings, Leipzig/Germany

Location: Schloss Reisensburg

Conference Program

Sunday, April 2nd, 2023

Location: Schloss Reisensburg

9:00 – 10:30 am Workshop 4

10:30 – 11:00 am Workshop 5

Workshop 4:

How to assess the various and variant brain barrier functions in vivo? *with discussion by W. Banks, K. Bechter, D. Drevets, S. Najjar (cancelled), J. Steiner, A. Vincent (remote), and all (submission of further short presentation titles possible)*

Blood-Brain barrier: the Extracellular Fluid flow-related interpretation

H. Reiber, Göttingen/Germany

Neurochemical Biomarkers in patients with COVID-19

H. Tumani, Ulm/Germany

Pitfalls in CSF diagnostics – a neurologists experience and perspective

R. Nau, Göttingen/Germany

Workshop 5:

Discussion: After the description of Autoimmune Psychosis: results, open questions, further requirements.

Chairs: T. Pollak, A. Vincent (remote), K. Bechter

Posters (presented throughout the meeting)

A Fatal Case of Late Stage Lyme Borreliosis and Substance Abuse

R. Bransfield, A. Dwork, M. Embers, New Jersey/USA

Food intolerances in ADHD patients, a follow up

H.-W. Clement, Freiburg/Germany

Support for a Connection Between Pediatric Bipolar Disorder and Tick-Borne Infections

R. Greenberg, Summit/USA

The DEXA-PSYCH Study: Repurposing Dexamethasone for Treatment of Moderate-to-Severe Depression – A Study Protocol

T. Boldt Rømer, R. H. B. Christensen, M. E. Benros, Copenhagen/Denmark

Immune changes and predictors of response in patients with depression

M. Schäfer, J. Kemper, M. Leboyer, A. Cattaneo, L. Capuron, Essen/Germany

Cerebrospinal fluid abnormalities in first- and multi-episode schizophrenia-spectrum disorders: impact of clinical and demographical variables

E. Wagner, München/Germany

Abstracts

of the 16th Psychoimmunology Expert Meeting are available *online* (open access) in Special Issue, Journal of Affective Disorders Reports, Elsevier

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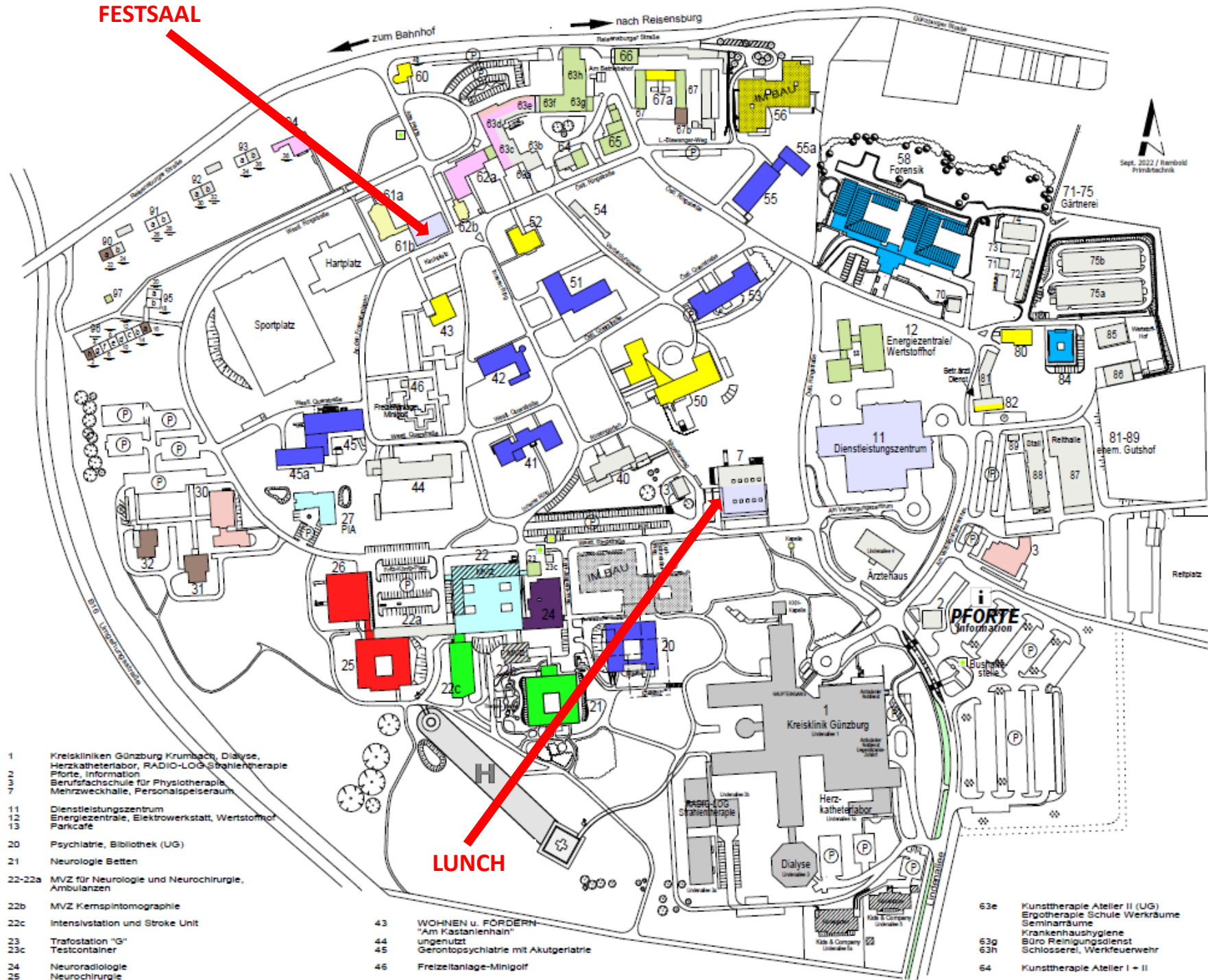
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MAP OF BEZIRKSKRANKENHAUS GUENZBURG



CASH POINTS / ATMs in the area

