

Research Report of the Center of Mental Health (2021-2023)

ZEP

Zentrum für
Psychische
Gesundheit



PPP

Klinik und Poliklinik für
Psychiatrie, Psychosomatik
und Psychotherapie



KJPPP

Klinik und Poliklinik für
Kinder- und Jugendpsychiatrie,
Psychosomatik und Psychotherapie

**Uniklinikum
Würzburg**



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A Recommendations of ESAB 2022 and Center Developments 2022-2023

1. Recommendations by the Scientific Advisory Board

6st Science Conference – Center of Mental Health Würzburg
June 2021

with comments on developments in 2021-2023

Overall feedback:

The ESAB is impressed by the achievements of the CMH during the last three year period from 2018-2021 and congratulates on this great story of success in scientific as well as in clinical terms!

Overall quality of presented research is high; focus on development of mental disorders; collaborative spirit; congratulations on the new appointments (Ehrhardt-Lehmann, Deserno, Reiter); “previous generation” has been successful in third-party-funding (Gamer, Hein, Tovote)

Thank you for the positive appraisal of our efforts and achievements!

Specific feedback to the written report:

The following information is missing and should be added in future reports:

- *number of people doing research (especially junior scientists such as PhDs, Postdocs)*

This information is given in detail in section B listing the active researchers with protected research time.

- *specify use of the third-party-funding*

This information is given in detail in section D.

- *more information regarding mentorship/ education*

In summary MD and PhD students and clinician scientists are mentored by interdisciplinary mentorates consisting of 3-4 mentors in the context of the Graduate School of Life Science and the Integrated Clinician Scientist College.

- *report focuses on departments – show additional value of the center*

As opposed to the previous report there is only a joint report in section C stressing the added value.

- *report should contain future perspectives*

It shall be stressed also here, however, that part of the Würzburg culture is interdisciplinary research across institutions and centers. As a consequence the Center of Mental Health and its institutions are expected to take part in and contribute to interdisciplinary initiatives such as the COVID Network University Medicine. This clearly distinguishes our center from stand-alone institutions such as the Zentralinstitut für Seelische Gesundheit at Mannheim and the Max-Planck-Institute of Psychiatry at Munich.

However with regard to anxiety there is the Comprehensive Anxiety Center as only mental health A center which with the end of the pandemic allows the translation of recent research on anxiety into the 9 cooperating partner clinics in Southern Germany. Its further development is assured with the integrated W2 professorship of Angelika Erhardt-Lehmann on Clinical Anxiety Research.

- *For example: “German Center of Prevention Research and Mental Health”:*

so far it is only a building that needs to be filled with active researchers; specify what is meant by “prevention”; center needs a research focus that is able to attract significant third-part-funding; needs public health service research/ perspective; the rehabilitation focus (a strength in Würzburg) could be integrated

We agree that the building to be officially opened in October 2023 needs to be filled with researchers and research.

In summary, we want to cover the spectre from primary intervention during development as represented by research e.g of Sarah Kittel-Schneider (and successor) and Andrea Reiter over secondary prevention as represented e.g. by the new W1 professor on prevention of dementia and dementia complications (Alexandra Wuttke) to tertiary prevention as represented by the rehabilitation research group represented by Heiner Vogel.

As you can see from the website these and other researchers over the past years have acquired and realize a number of research projects on prevention in mental health.

- *Recommendation to continue molecular focus of Lesch group*

We agree and a probable option is that either the W3 (successor Lesch) or the W2 (successor Mattheisen) are filled by a professor with this profile providing support and guidance for the molecular research of Sarah Kittel-Schneider (and successor), Angelika Erhardt-Lehmann, Angelika Schmitt-Böhrer and Christina Lillesaar in cooperation with research at the Institute of Clinical Neurobiology by Philip Tovote and Carmen Villmann.

To bridge the gap until nomination for a successor to Klaus-Peter Lesch, he has been appointed a senior professor continuing his research with resources provided by the clinical chair.

- *Strengthen translation to clinic, but Würzburg alone is too small for this, seek collaborations with the actually developing German Centers for Child and Adolescent Health and Mental Health*

In fact, we have contacted participating institutions of the Center of Mental Health.

There has been a joint kick-off meeting of the German Center of Prevention Research and Mental Health with child and adolescent partner centers of the Center of Mental Health which are also members of the German Center of Prevention Research and Mental Health.

In addition, we have founded a National Centre of Affective Disorders with university departments at Frankfurt, Erlangen, Regensburg, Bochum, Münster and Dresden. The research vision is essentially the one of a joint Frankfurt/Würzburg application for a Center of Mental Health. Already, funding for multicenter clinical studies has been acquired and studies such as P4D have been initiated.

- *Future strategy should be result of SWOT-Analysis*

We plan applications for coordinated DFG funding programs, in particular in the fields of “Development and transition” and “Network-Dynamics”.

In fact, coordinated by neurology (Jens Volkmann) and neurobiology (Philip Tovote) we have submitted an application to the Else-Kröner-Fresenius medical research center program for a “Center for Neural Network Therapies”.

Recommendations regarding research structures:

- *CMH should have its own governance structure and budget; already recommended in previous ESAB meeting – no change here suggestion:
coordinator financed by the center if no funding by university/faculty*

We fully agree.

Progress on this is hampered by the transition period at the adult psychiatry department which started as of April 1st 2021.

However, depending largely on signals from the participating centers of the German Center of Mental Health which has started as of 05/2023 the Center of Mental Health Würzburg founded in 2013 may either continue as an independent research structure or its institutions be integrated into a clinical neuroscience structure led by neurology (see above).

- *The use of additional lab space (60 square meters molecular in 2021 and 120 square meters systems laboratory in 2022) is strongly recommended by the ESAB. However, specific recommendations regarding the use of lab space postponed to on-site meeting 2022*

We thank you and will be glad to give you an on-site tour showing the progress in construction of the molecular laboratory as well as the space designated for an extension of the systemic laboratory.

Recommendation regarding quality control:

- *evaluations of mentorship and services by mentees/ patients*

In summary, there is a sophisticated mentorship system at the medical faculty and the university covering the full career track from study to tenure for MDs as well as PhDs.

The Würzburg Center of Mental Health is utilizing these, again the situation is here not comparable with that of stand-alone centers such as the Central Institute of Mental Health and the Max-Planck-Institute of Psychiatry.

In October 2020, a patient advisory board has been established at the CMH.

Recommendations regarding profiles and timeline of professorships:

- *Senior professorships should be filled to avoid uncertainty (“limbo”) as soon as possible. Question is important for the future of the center, which is currently mainly kept together by Jürgen Deckert*

This point in principle has been well taken by the faculty, however the process is delayed by about 6 months and a nomination not expected until autumn of 2023 with a transition between spring and autumn of 2024.

Until the end of 2023 Jürgen Deckert will be a member in central organs of the faculty such as a vicedean of the faculty, the strategy committee of the university hospital and a member of steering committees of e.g. the German Heart Failure Center, the Center of Rare Diseases, the Interdisciplinary Pain Center and the Strategy Committee of the curriculum reform.

- *Fill Molecular Psychiatry professorship of Klaus-Peter Lesch with the same research profile to maintain this strong research focus with a strong national and international research status in translational and molecular psychiatry*

This point has been well taken by the faculty, however it may be that the Lesch profile may be covered by a W2 professor while the W3 professor is reserved for an artificial intelligence profile.

- *Medical Psychology does currently not exist on a professorship level, but there will be an increase in teaching load in the future due to new regulations (e.g., National Competence Learning Goals Curriculum, future license regulations, ÄAppO).*

Broad agreement that this position needs to be reestablished on W2 or W3 level; could be a targeted search; should be a person that fits well into the center

This point has in the meantime been partially appreciated by the faculty, a decision however will not be made until the successor of Jürgen Deckert has been nominated. In fact there are suitable candidates already at Würzburg. Support in form of an explicit statement is highly appreciated, in particular with regard to the need of additional resources as at present the additional teaching load is covered without additional resources, mostly by adult psychiatry.

In addition, there are negotiations on a donation chair on rehabilitation research in mental health to be filled by a medical psychologist with in fact then 3 psychology professor positions in the department of adult psychiatry (Hein, Wuttke, NN).

Recommendation regarding W2 professor Psychosomatic Medicine in Internal Medicine:

- *This W2 professorship should focus primarily on psychooncology*

This is already so with Imad Maatouk being fully integrated in the new National Tumor Centre satellite at Würzburg in association with the Deutsche Krebsforschungszentrum at Heidelberg which was formally initiated in 05/2023.

- *Perspective: integration into CMH*

This is agreed and in preparation, it is practiced informally and can be realized formally once the successor of Jürgen Deckert has been nominated.

Recommendation regarding Mother- and Child Service Unit (in Gynecology):

- *Clinically and scientifically important unit, however, insufficiently financed in German health system*

We fully agree.

- *Prioritize negotiations with health insurance companies to achieve a better contract*

Since 2022 there is a new billing code which the department has been certified for as first university department in Bavaria with a considerably better reimbursement.

Other strategies to overcome this are grant funding for pilot services and innovation fund applications to prepare for regular services covered by the insurance companies such as the Babylotsen-project funded by donations and the UplusE project funded by the innovation fund.

Additional points

- *Psychotherapy research strong in adults; transfer knowledge to children and adolescents to be established in context of new psychotherapy curriculum, teaching role for Andrea Reiter*

We fully agree and both psychiatries will participate in the new master Psychotherapy which has started at Würzburg with the winter semester 2022/2023.

In detail, adult psychiatry is coordinating lectures in the preparatory bachelor of psychology since 2020. Both adult and child and adolescent psychiatries will continue to offer lecture serieses for the master of psychology als for the master of psychotherapy and child and adolescent psychiatry is offering highly structured internships.

Adult psychiatry is restructuring its former day care ward of general psychiatry until autumn of 2023 for use as a psychotherapy and trauma outpatient service as well for use by the rehabilitation research group.

- *How to attract the best students to a career in psychiatry? Provide more details; mentorship on midcareer level (already suggested in previous ESAB meeting)*

As pointed out above part of the Würzburg culture are faculty and even university-wide career mentorate structures such as the Graduate School of Life Sciences and the Interdisciplinary Clinician Scientist College as opposed to center specific structures. One rationale of course is the use of synergies, the other is the fostering of interdisciplinary research which is a core element of Würzburg scientific culture.

As a consequence there are 3 career tracks:

1. A clinical track for both physicians and psychologists
2. A translational research track for physicians and psychologists
3. A structured MD and PhD track for phisicians, psychologists, biologists etc.

2. Center Developments 2022-2023

- Structural developments

1. Adult Psychiatry and Psychosomatic DayCare units as of 10/2020 with mother&child service have been concentrated in one building on hospital campus in vicinity of mother&child liaison and outpatient service in the gynecology department allowing for synergies.
2. As a consequence of the 2nd Würzburg amoc run on June 25th 2021 a trauma outpatient service has been established by the Medical Psychology section.
3. The first baby –guidance project in Bavaria with dedicated social workers has been established in cooperaton between adult psychiatry and gynecology as of 04/2022.
4. In preparation of a multi-center trial a new specialized psychiatry outpatient service for early diagnosis of psychosis has been established as of 04/2022.
5. Molecular psychiatry laboratory renovation utilizing archive rooms rendered unnecessary due to the ongoing and systematic digitalization effort at the psychiatries has started as of 10/2021. Space for systemic laboratories will be generated by 10/2023.
6. Center of Mental Health as part of our ongoing destigmatization and outreach efforts has become official entrance to the Stein Wine Path as of 06/2022.
7. Center of Geriatric Medicine at the University Hospital in cooperation between Internal Medicine, Neurology and Adult Psychiatry has been established in 10/2022.
8. The institute of psychology will take over the recently renovated facilities at Pleicherwall currently still used by the secton of medical psychology by 10/2023.
9. The former adult psychiatry day care unit is currently undergoing restructuring for use as a psychotherapy and trauma outpatient unit as well as for use by the rehabilitation research group and expected to be functional by 10/2023.
10. Construction of Center for Prevention Research and Mental Health in vicinity of Fraunhofer imaging facility and Virtual Reality facilities of Psychology and CAIDAS allowing for synergies will be finished by October 2023.

- Human resources developments

Incoming:

1. Prof. Imad Maatouk has taken up the W2 professor position of Psychosomatic Medicine as of 11/2021.
2. Prof. Alexandra Wuttke has taken up the W1 Professor position for prevention of dementia and dementia complications at the Department of Adult Psychiatry as of 02/2023.
3. Prof. Andrea Reiter has become W2 Professor for psychotherapy and interventional psychology at the Institute of Psychology and as such will stay an associated member of the Center.
4. Prof. Klaus-Peter Lesch has retired as chair of molecular psychiatry, but will continue as a senior professor and thus will stay a member of the Center.

Outgoing:

5. Prof. Sarah Kittel-Schneider has taken up the chair of psychiatry at the University of Cork as of 06/2023.

- Program developments

1. Elite Master program Translational Neuroscience has been successfully extended until 2028
2. Research training Group RTG 2660 „Approach & Avoidance“ (speaker Prof. Matthias Gamer) has officially started with filling the first PhD student positions as of 10/2021.
3. Clinician Scientist program UNION-CVD has been successfully extended until 2024.
4. Master program Psychotherapy of the Institute of Psychology has been accredited and has started as of 10/2022.
5. Official kick-off of the curricular reform of Human Medicine at Würzburg University was in 04/2022, start is expected for 2026.
6. National Center for Affective Disorders as a consortium of German university psychiatries (Bochum, Dresden, Erlangen, Frankfurt, Münster, Regensburg, Würzburg) focusing on research in affective disorders (depression and anxiety disorders) has been established in 10/2021.

B Member institutions of Center of Mental Health with full-time tenured/tenure-track researchers

- Department of Psychiatry, Psychosomatics and Psychotherapy

Full professors:

Prof. Jürgen Deckert	Psychiatry
Prof. Grit Hein	Social Neuroscience
Prof. Angelika Erhardt-Lehmann	Anxiety Research (affiliation with Max-Planck-Institute of Psychiatry)
Prof. Alexandra Wuttke	Prevention of dementia and dementia complications
NN	Psychiatric Genomics & Epigenomics (Prof. Manuel Mattheisen – 04/2021)
NN	Molecular Psychiatry (Prof. Lesch – 04/2023)
NN	Developmental Psychiatry (Prof. Kittel-Schneider 06/2023)

Senior professors (emeriti):

Prof. Peter Riederer	Clinical Neurochemistry
Prof. Helmut Heinsen	Neuroanatomy (affiliation with institute of forensic medicine)

Affiliated professors (0.25 positions):

Prof. Daniel van den Hove (Maastricht)	Neuroepigenetics
Prof. Daniel Müller (Toronto)	Pharmacogenetics

Work Group Leaders:

Prof. Martin Herrmann	Psychophysiology and Neuroimaging
Prof. Angelika Schmitt-Böhrer	Functional Neuroanatomy
PD Heike Weber	Functional Genomics

PostDocs:

Dr. Meike Scherf-Clavel	Psychiatry
Dr. Katharina Hutterer	Anxiety Research
Dr. Tatjana Strelakova	Molecular Psychiatry
Dr. Catharina Hamann	Functional Neuroanatomy
Dr. Rhiannon McNeill	Developmental Psychiatry
Dr. Martin Weiß	Social Neuroscience
Dr. Anne Saulin	Social Neuroscience
Dr. Liquin Huang	Social Neuroscience

Clinician Scientists with protected time (CSC and IZKF):

Dr. Georg Ziegler	iPSC of ADHD (UNION-CVD 2019-2022)
Dr. Daniel Bellinger	Virtual Reality in Performance anxiety (UNION-CVD 2021-2024)

Dr. Matthias Nieberler

iPSC of Bipolar Disorder
(IZKF 2021-2022)

Dr. Anna-Linda Leutritz

Neuronal networks in peripartal
Depression
(IZKF 2022-2025)

PhD students:

Ana Magdalena Pineau

Lesch

Nikita Gorbunow

Lesch

Hsing Ping Ku

Lesch

Maria Vitale

Lesch

Evgeniy Svirin

Lesch

Johanna Zöllner

van den Hove

Jasper Bischofberger

Hein

Marthe Gründahl

Hein

Lisa Cybinski

Herrmann

Kristin Wehrmann

Herrmann

Elif Salur

Schmitt-Böhrer

Chantal Hampf

Weber

Zora Schickardt

McNeill/Kittel-Schneider

- ***Department of Child & Adolescent Psychiatry, Psychosomatics and Psychotherapy***

Full professors:

Prof. Marcel Romanos

Child and Adolescent Psychiatry

Prof. Lorenz Deserno

Neuroscience in Dev. Psychiatry

N.N.

Learning in Dev. Psychiatry

(Prof. Andrea Reiter 06/2023)

Senior professor (emeritus):

Prof. Klaus-Peter Lesch

Molecular Psychiatry

Work Group Leader:

PD Christina Lillesaar

Disease Models

PD Dr. Thomas Jans

Intervention and Health Services in
ADHD

Dr. Karin Egberts

Therapeutic Drug Monitoring

PostDoc:

Dr. Carsten Drepper

Disease Models

Dr. Vanessa Scholz

Neuroscience in Dev. Psychiatry

Dr. Theresa McKim

Learning in Dev. Psychiatry

Dr. Julia Geißler

Learning in Dev. Psychiatry

Dr. Julia Reinhard

Learning in Dev. Psychiatry

Dr. Hilmar Zech

Neuroscience in Dev. Psychiatry

Clinician scientist:

Dr. Franziska Radtke

Complex Developmental Disorders:
22q11.2 (UNION-CVD 2020-2023)

Dr. Hans Aster Neuroscience in Dev. Psychiatry
Methylphenidate and ADHS
(IZKF 2020-2023)
Dr. Stefanie Fekete Therapeutic Drug Monitoring:
(Medical Faculty stipend)

PhD students:

Klara Gregorova Reiter & Romanos
David Reindel Reiter & Romanos
Jessica Reinhard Julia Reinhard/Reiter
Maria Waltmann Deserno

- ***Section of Medical Psychology (Dept. Psychiatry, Psychosomatics and Psychotherapy)***

Work Group Leader:

Prof. Heiner Vogel Rehabilitation Medicine

Postdocs:

PD Karin Meng Rehabilitation Medicine (affiliation with
Comprehensive Cancer Center)
Dr. Matthias Lukaszczik Rehabilitation Medicine
Dr. Jutta Ahnert Rehabilitation Medicine

- ***Associated individual members***

Institute of Clinical Psychology (CMH, CAC, Prevention Research):

Professors Paul Pauli (University President since 04/2021)

Prof. Matthias Gamer

Prof. Andrea Kübler

Prof. Johannes Hewig

Prof. Andrea Reiter

Prof. Andre Pittig (W2 Erlangen since 06/2021, W2/W3 Göttingen since 2023)

Institute of Clinical Neurobiology (CAC, Translational Neuroscience):

Prof. Philip Tovote

Prof. Carmen Villmann

PD Robert Blum (Neurology since 2022)

Prof. Jens Volkmann (Neurology)

Neurogerontopsychiatry

Prof. Hermann Einsele (Internal Medicine II)

Psychosomatic Medicine

C Research Report of Center of Mental Health (2020-2023)

As opposed to previous reports this report will not be a list of reports of the individual member institutions, but a joint report summarizing essential developments and addressing the points of the board review.

In detail, the following aspects will be addressed:

- **Research Vision with focus on anxiety**
- **Translational perspective**
- **Mentoring and Career development**

Doing so, contributions of individual members will be presented allowing for synergistic cooperations, e.g. in future DFG - funded Research Groups and Collaborative Research Centers or BMBF- and EU- funded Consortia as soon as the transition period has been successfully concluded.

The focus will be on research on fear, anxiety and anxiety disorders.

1. Research Vision

Essentially, the CMH follows the NIMH Research Strategy:

National Institute of Mental Health Strategic Plan for Research

The NIMH Strategic Plan will guide our research forward across the country and around the world.

In this Strategic Plan for Research, NIMH outlines four high-level Goals:

- ▶ **Goal 1: Define the Brain Mechanisms Underlying Complex Behaviors**
- ▶ **Goal 2: Examine Mental Illness Trajectories Across the Lifespan**
- ▶ **Goal 3: Strive for Prevention and Cures**
- ▶ **Goal 4: Strengthen the Public Health Impact**

These four Goals form a broad roadmap for the Institute's research priorities beginning with fundamental science and extending through evidence-based services that improve public health outcomes.

Examples will be presented from current research on anxiety:

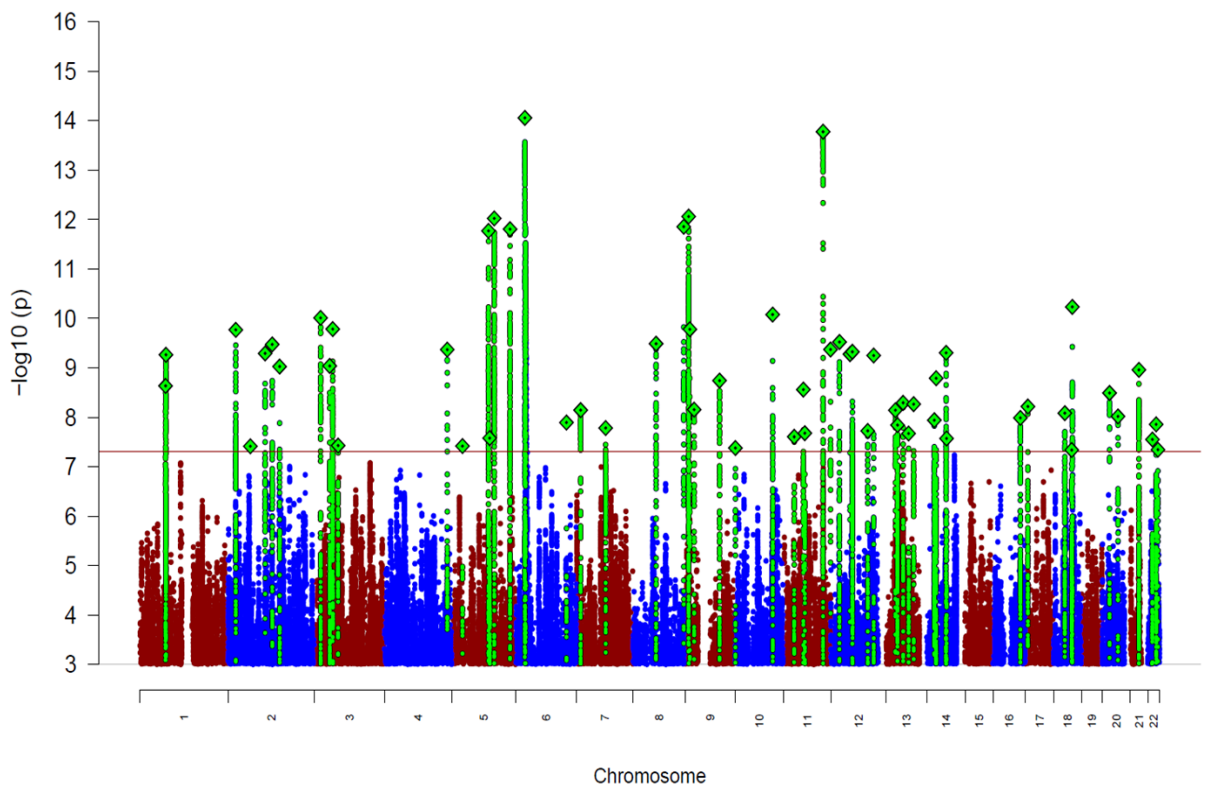
CMH Strategies addressing goal 1:

Brain Mechanisms Underlying Complex Behaviors

Genetics and Epigenetics:	Identify Molecular Pathways
Imaging:	Identify Neuronal Networks
Experimental Models:	iPSC and animal models for pathway and network analyses
Probands and Patients:	Deep phenotyping for functionally defined endophenotypes as basis for functionally defined interventions

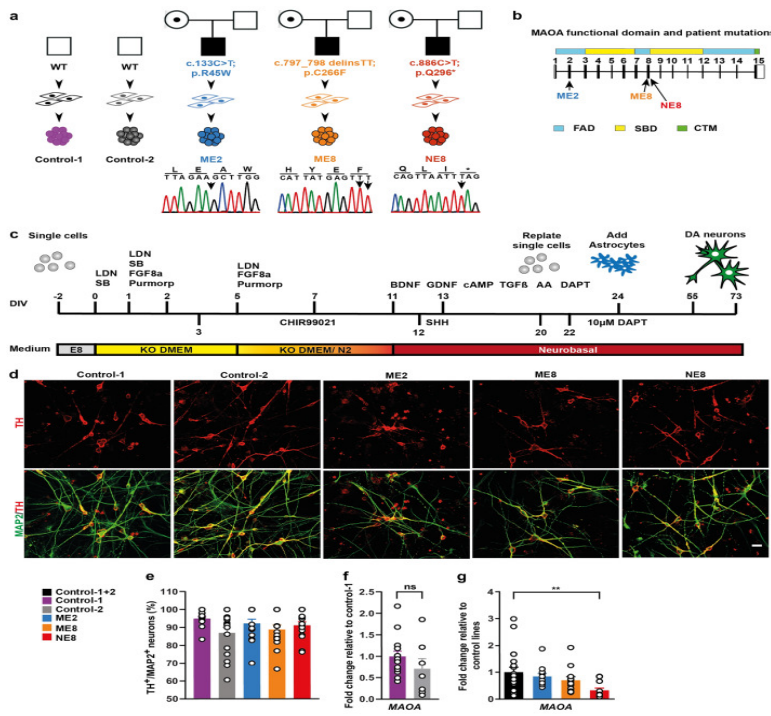
- Genetics and Epigenetics (PGC Anxiety and PTSD)

60 genome-wide significant loci in 100 000 anxiety patients
Overlap with loci for depression and learning



PGC GWAS 09/2022
Mattheisen, Purves, Silviu-Bacanu ... Deckert, Eley, Hettema

Polygenic Risk Score adds to the risk for PTSD in addition to trauma and negative coping styles in the DAAD SEE-PTSD cohort.



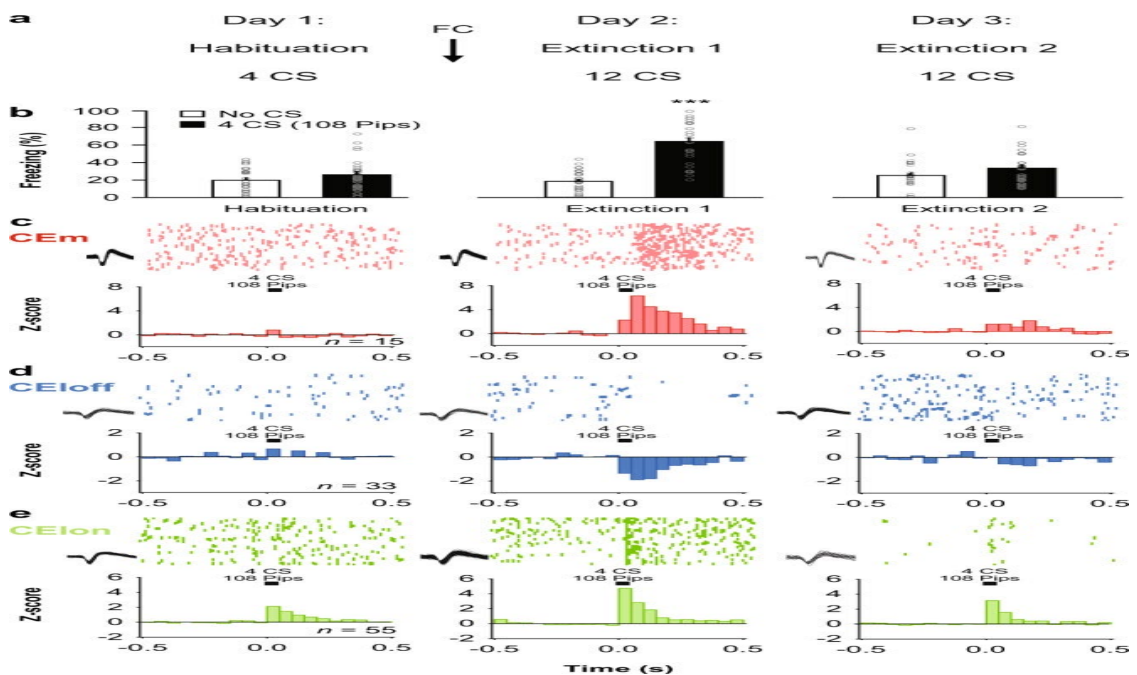
Van Rhijn ... Kittel-Schneider ...

Brunner syndrome associated MAOA mutations result in NMDAR hyperfunction and increased network activity in human dopaminergic neurons.

Neurobiology of Disease 163:105587, 2022

- *Mouse model*

Optogenetics identify neuronal subpopulations essential for amygdala micro-circuits modulating fear extinction

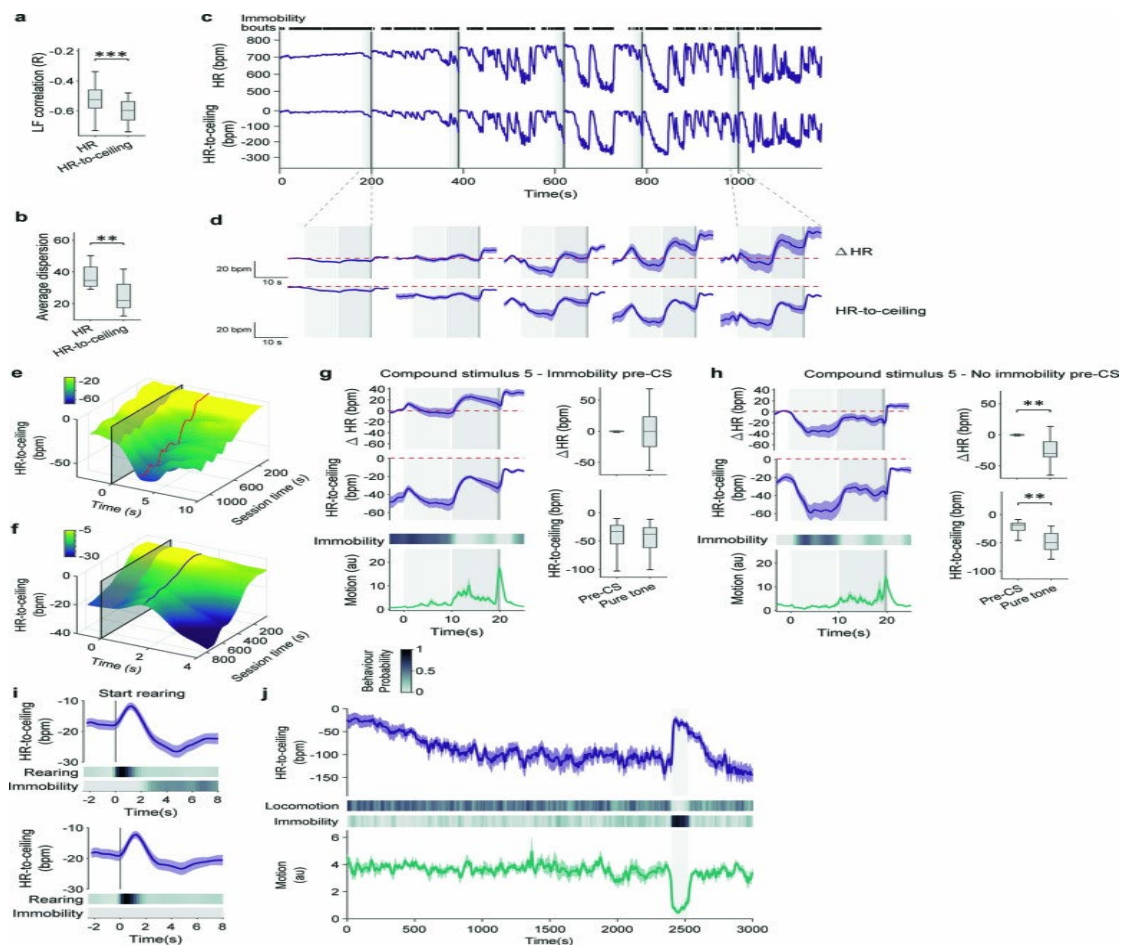


Whittle ... Tovote ...

Central amygdala micro circuits mediate fear extinction.

Nature Communications 12:4156, 2021

Cardiobehavioural microstates are identified by parallel recording of behaviour, neuronal and cardiac activity

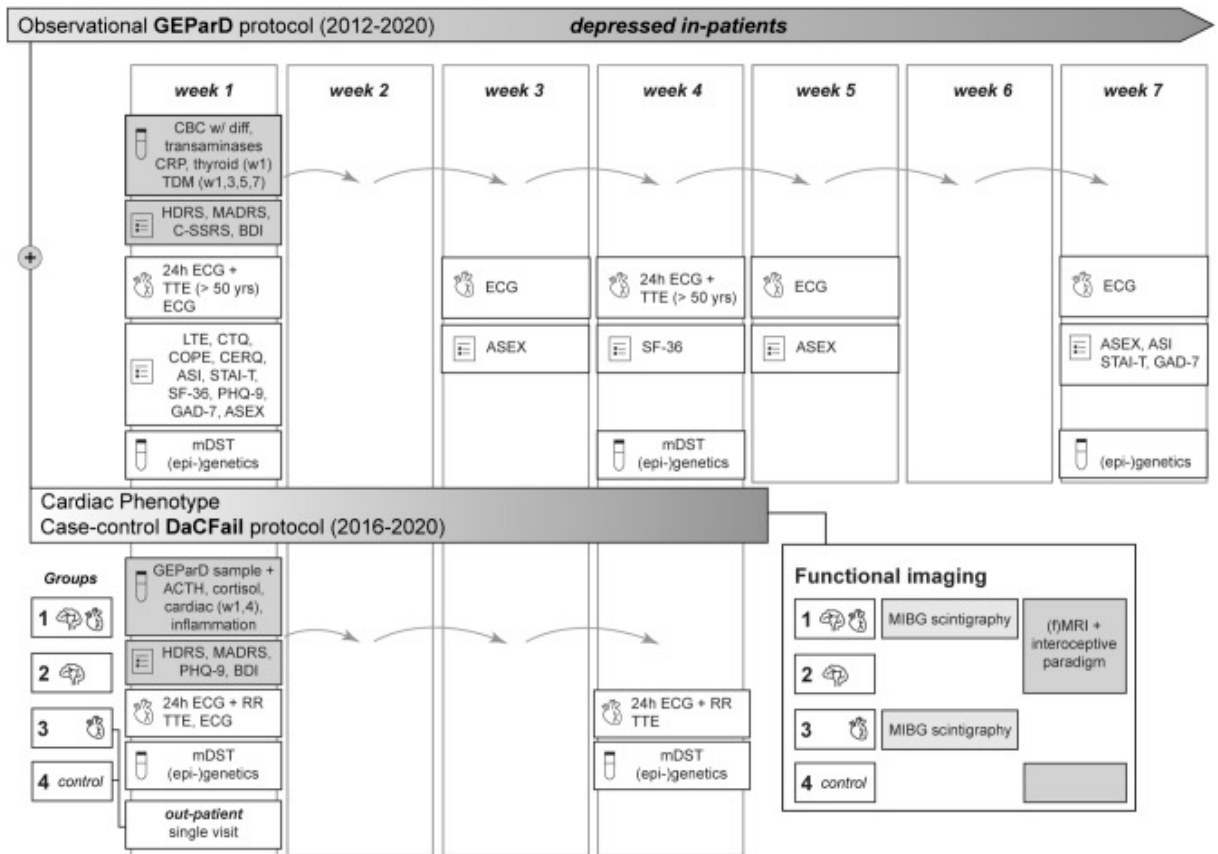


Signoret-Genest ... Tovote.

Integrated cardio-behavioral responses to threat define defensive states.
Nature Neuroscience 26(3):447-457, 2023

- *Probands and Patients: Depression, anxiety, stress axis and cardiac function*

Multidimensional deep phenotyping in naturalistic therapy depression cohort (GEPaD and DaCFail) in cooperation with Comprehensive Heart Failure Center allows to define depression subtypes with regard to anxiety, stress axis and cardiac function.



Lichter, ..., Störk, ... Heuschmann, Buck, Pham, Kittel-Schneider, Deckert.
 Deep phenotyping as a contribution to personalized depression therapy: the GEPaRD and DaCFail protocols
 Journal of Neural Transmission 130(5):707-722, 2023.

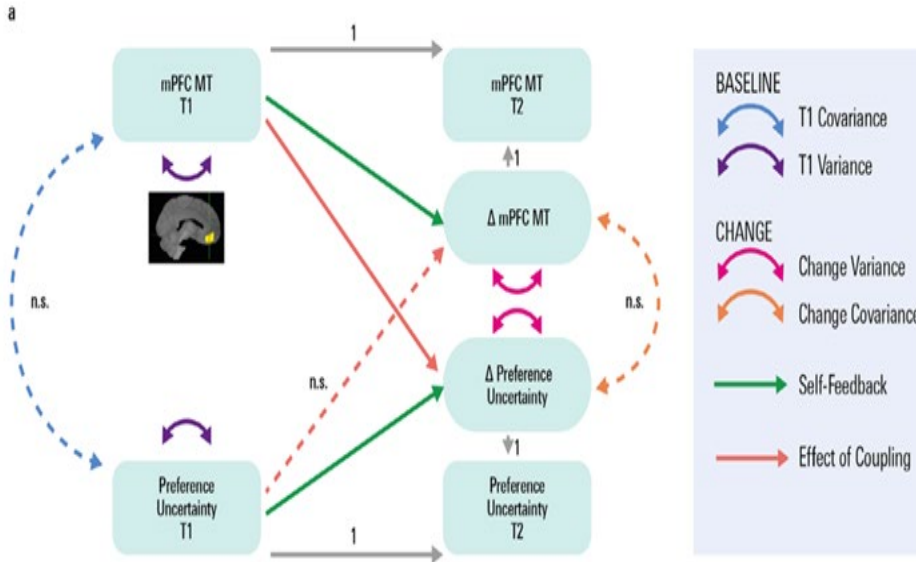
CMH strategies addressing goal 2:

Mental Illness Trajectories Across the Lifespan

Longitudinal cohorts

- *Neuroscience in Psychiatry Network Project (children and adolescents):*

Susceptibility to social influence decreases with time and correlates with brain myelinisation



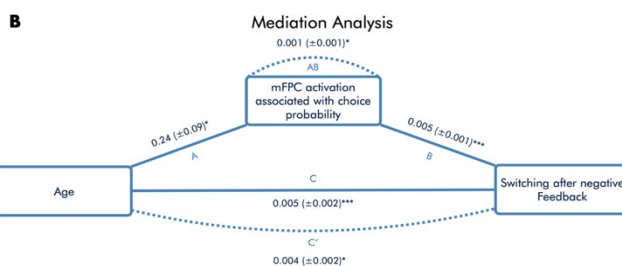
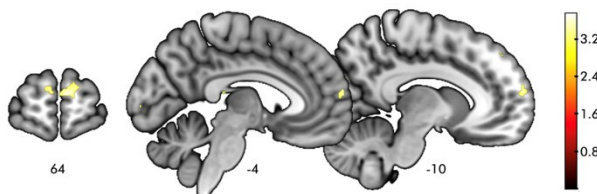
Reiter et al. Preference uncertainty accounts for developmental effects on susceptibility to peer influence in adolescence. *Nature Communications* 12(1):3823, 2021.

Reiter et al. Self-reported childhood family adversity is linked to an attenuated gain of trust during adolescence. *Nature Communications*, in press.

Gregorova et al. A computational account of mood variability during adolescence and its links to psychopathology. Preregistered report accepted at *Nature Communications*.

Brain activation in the medial prefrontal cortex mediates age-related development of decision-making behavior

A Positive Effect of Age on Neural Correlate of Choice Probability in the Medial Frontopolar Cortex



Waltmann et al., *Developmental Cognitive Neuroscience*, 2023.

Scholz et al., *Journal of Neuroscience*, 2023

CMH strategies addressing goal 3:

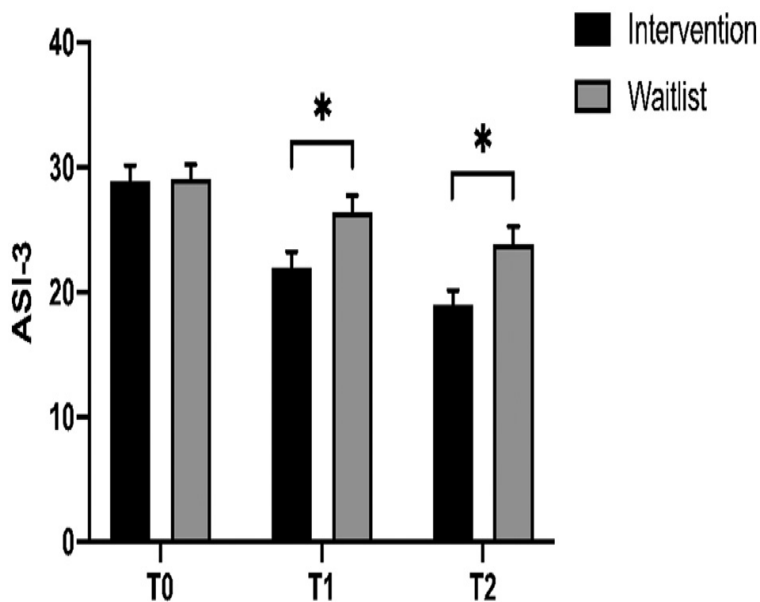
Prevention and Cures

Interventions for endophenotypes

Interventions applying virtual reality

- *Prevention using Intermediate Phenotypes: Anxiety Sensitivity*

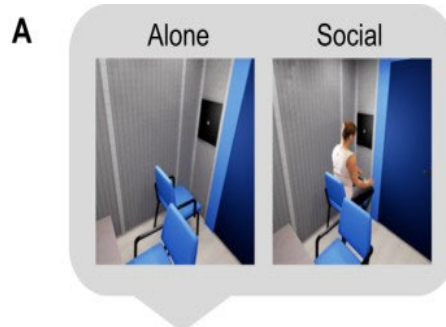
Specific intervention successfully reduces anxiety risk endophenotype anxiety sensitivity.



Schiele, Vietz, Gajewska, Unterecker, Gottschalk, Deckert, Neufang, Schmidt, Domschke.
The cognitive anxiety sensitivity treatment (CAST) in anxiety prevention - Focus on separation anxiety and interoception.
European Neuropsychopharmacology 53: 104-113, 2021

- *Therapy using Virtual Reality: Avatars*

Virtual agents reduce fear in women with high social anxiety in study in cooperation with CAIDAS



Qi, Buch, Krop, Hermann, Latoschik, Deckert, Hein.

Social buffering of human fear is shaped by gender, social concern and the presence of real versus virtual agents.
 Transl Psychiatry 11:641, 2021

CMH Strategies addressing goal 4:

Public Health Impact

Population studies

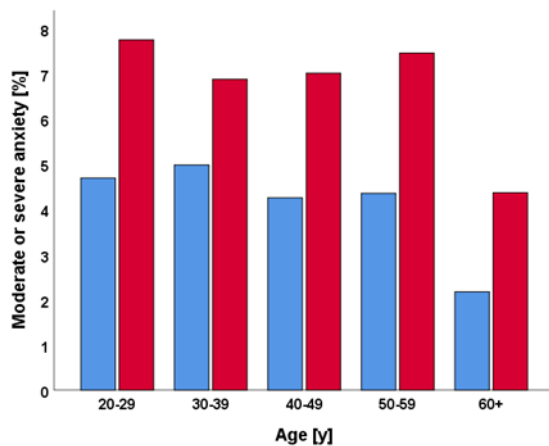
Multicenter Trials

Apps

Guidelines

- Population studies: NAKO, STAAB and NapKon

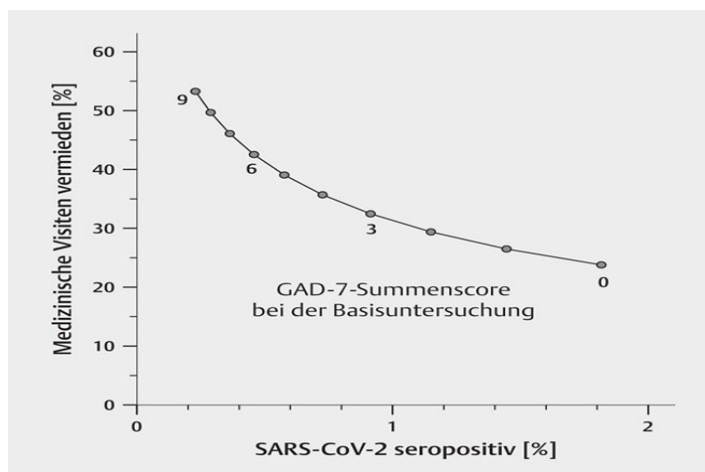
Broad phenotyping in the national cohort with 200 000 individuals will allow to analyze the relevance of anxiety disorders for somatic health.



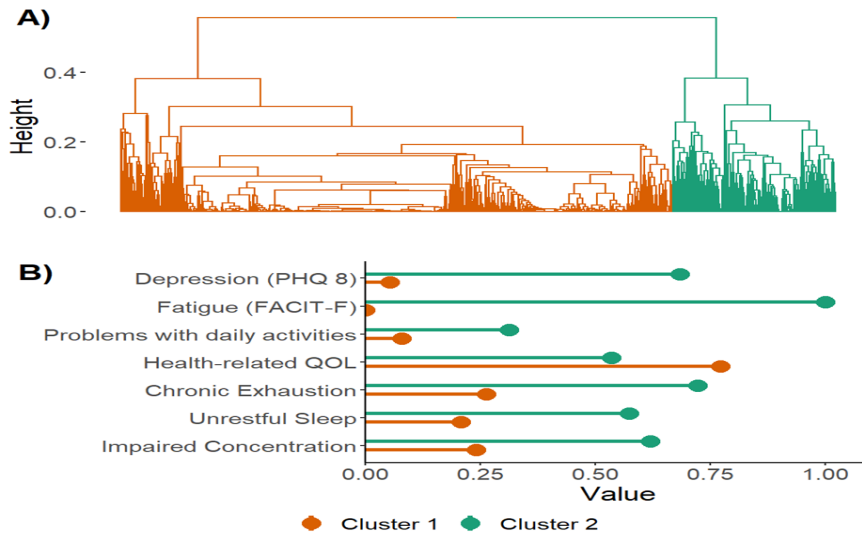
Erhardt, Gelbrich ... Deckert

Generalised anxiety and panic symptoms in the German National Cohort (NAKO)
World Journal of Biological Psychiatry 17:1-16, 2022.

STAAB study with 5000 Würzburg individuals indicates that anxiety reduces risk for COVID-19 infection at the price of missing scheduled doctor visits.



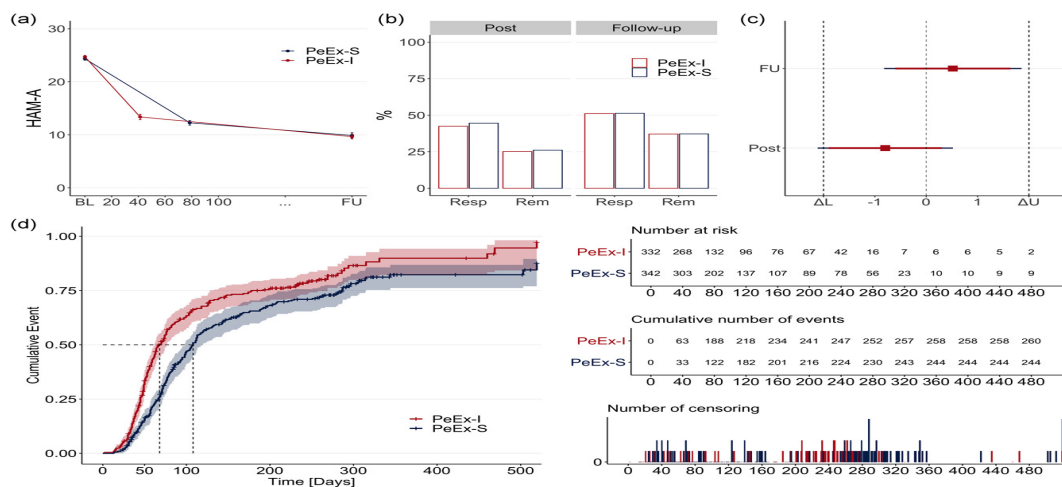
Depression and fatigue in PostCOVID cannot be differentiated using a machine learning algorithm in POP cohort with 1500 affected individuals



Weiß, Gutzeit, ..., Deckert, ... Hein
 Depression and fatigue six months post-COVID-19 disease are associated with overlapping symptom constellations: A prospective, multi-centre, population-based cohort study
 eClinicalMedicine, submitted

- National and EU multicenter trials: Protect and Predict

Protect study shows that temporally intensified exposure therapy of anxiety disorders is associated with faster remission. This is a guide-line relevant finding.



Pittig ... Deckert, Pauli ...
 Efficacy of temporally intensified exposure for anxiety disorders: A multicenter randomized clinical trial

Application of a combined psychometric and neuropsychological algorithm based on machine learning for antidepressant therapy is associated with reduction in anxiety, but not depression in depressed patients. While with regard to the primary outcome this is a failed study, it opens up new perspectives for anxiety research.

Analyses of measures other than symptoms of depression.

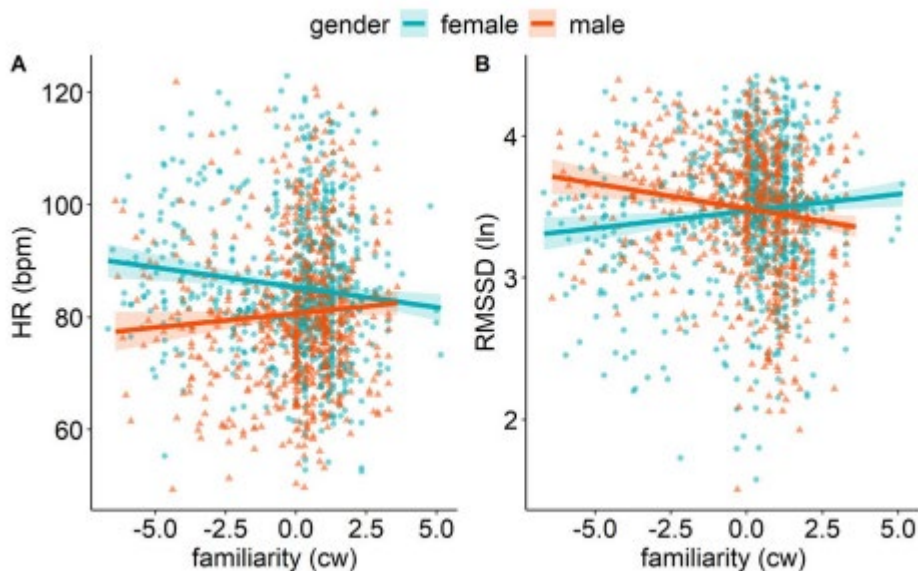
Time point	PReDicT group		TaU group		Difference between groups (95% CI)	P value
	N	Mean change (95% CI)	N	Mean change (95% CI)		
<i>GAD-7</i>						
Week 8	391	-6.12 (-6.83, -5.41)	389	-5.44 (-6.14, -4.74)	0.68 (0.03, 1.32)	0.040
<i>SAS-SR</i>						
Week 8	391	-7.60 (-8.57, -6.64)	389	-6.51 (-7.47, -5.54)	1.09 (-0.26, 2.45)	0.112
Week 24	274	-9.70 (-10.79, -8.61)	258	-7.48 (-8.60, -6.36)	2.22 (0.74, 3.70)	0.004
Week 48	228	-10.28 (-11.50, -9.05)	231	-9.60 (-10.81, -8.39)	0.68 (-0.73, 2.08)	0.346

Browning ... Deckert ... Menke ...

The clinical effectiveness of using a predictive algorithm to guide antidepressant treatment in primary care (PReDicT): an open-label, randomised controlled trial
 Neuropsychopharmacology 46(7):1307-1314, 2021.

- Apps

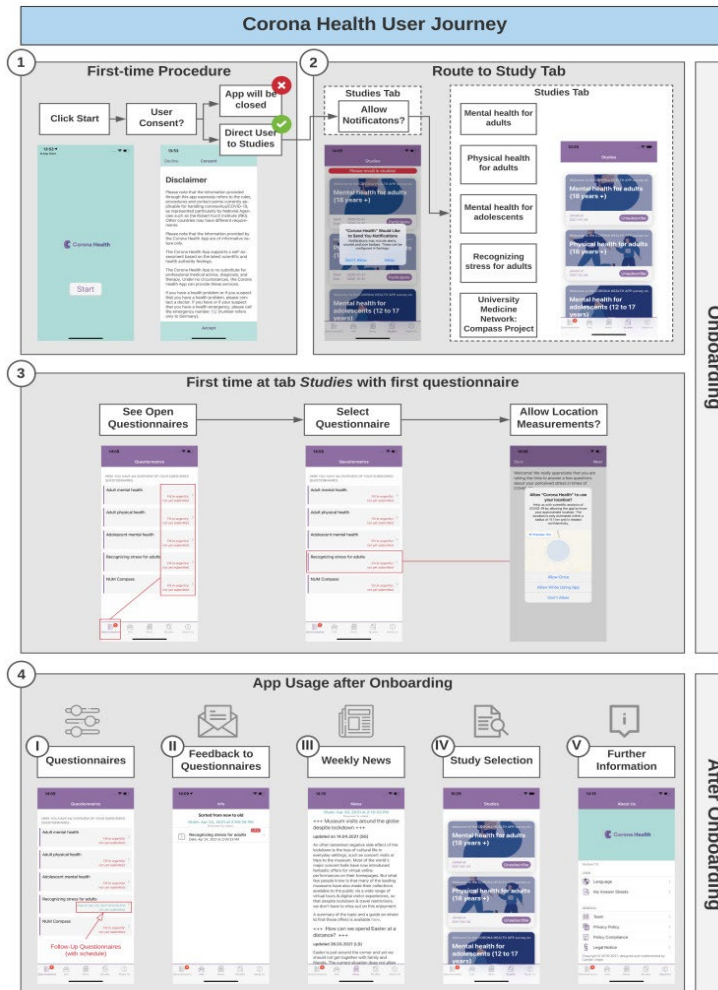
Application of Apps and EMAs allow joint behavioural and cardiologic assessments in social interactions



Gründahl, Weiß, Stenzel, Deckert, Hein

The effects of everyday-life social interactions on anxiety-related autonomic responses differ between men and women
Scientific Reports 13:9498, 2023

Application of Apps allow population wide assessment of mental health including anxiety during COVID 10 pandemic.



Beierle ... Deckert, Deserno ... Hein ... Romanos ... Weiß, Pryss.

Corona Health-A Study- and Sensor-Based Mobile App Platform Exploring Aspects of the COVID-19 Pandemic
International Journal of Environmental Research and Public Health 18: 7395, 2021

- Guidelines

National Guidelines

Members of the Center of Mental Health have taken part and take the lead in S3 guidelines for anxiety therapy in adults and children, for chromosome 22q11.2 syndrome and for laboratory and apparative diagnostics in mental disorders.

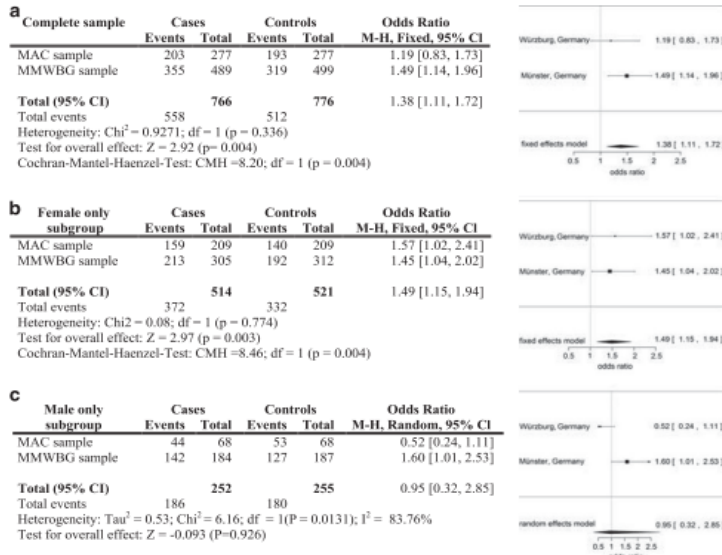
2. Translational perspective

This will be highlighted with five examples:

- ***Research on neuropeptide S as a new option for pharmacological intervention***
- ***Research on generalization as new option for psychotherapeutic intervention***
- ***Multicenter Therapy Trials***
- ***TDM and pharmacogenetics service***
- ***Comprehensive Anxiety Center***
- ***German Center for Prevention Research and Mental Health***

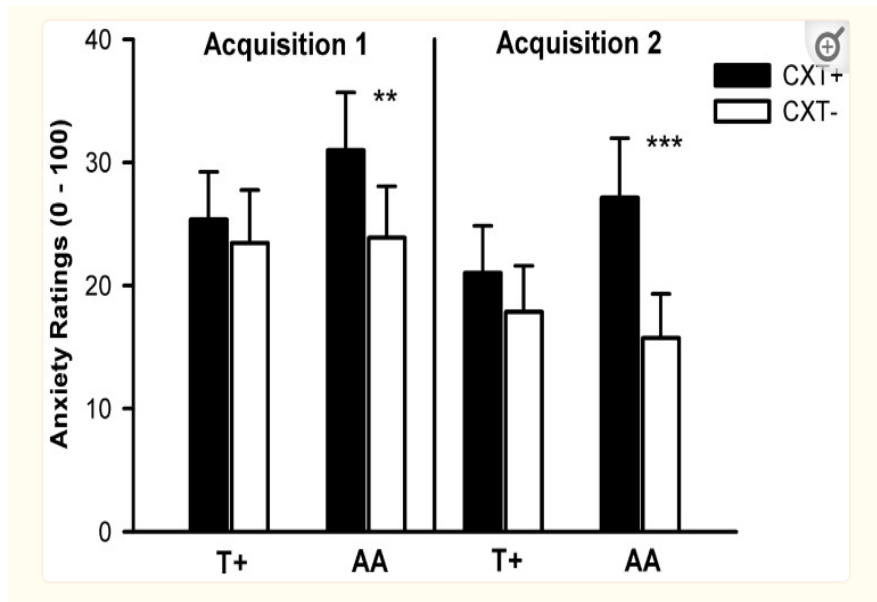
- **Neuropeptide S:**

Neuropeptide S receptor gene variation is associated with categorical and dimensional fear and anxiety phenotypes



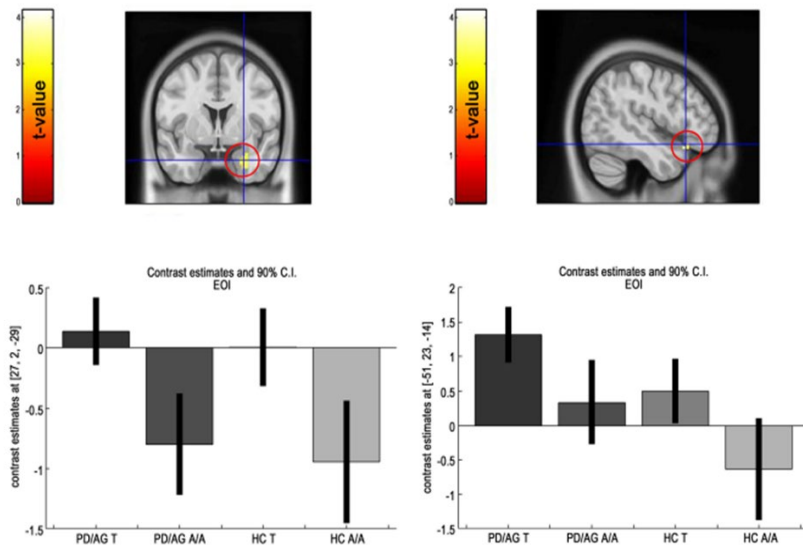
Domschke, Reif, Weber ... Baumann ... Jacob ... Erhardt ... Pauli ... Deckert
Neuropeptide S receptor gene -- converging evidence for a role in panic disorder
Molecular Psychiatry 16(9):938-48, 2011.

Neuropeptide S receptor gene variation modulates fear conditioning



Glantz-Schoon, Andreatta, Reif, Ewald, Tröger, Baumann, Deckert, Mühlberger, Pauli .
Contextual fear conditioning in virtual reality is affected by 5HTTLPR and NPSR1 polymorphisms: effects on fear-potentiated startle.
Frontiers in Behavioural Neuroscience 7:31, 2013.

Neuropeptide S receptor gene variation modulates fear circuitry

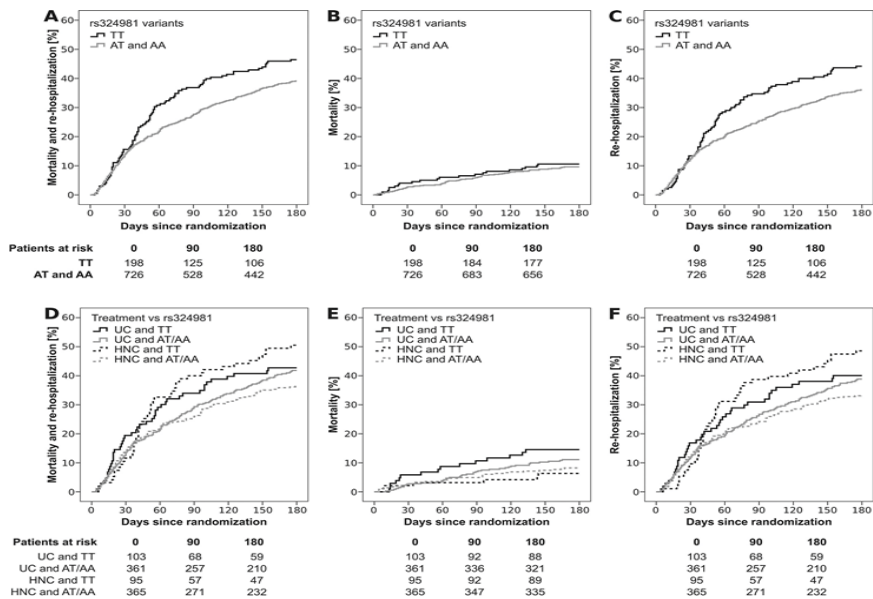


Gechter ... **Deckert, Weber, Herrmann** ...

Association of NPSR1 gene variation and neural activity in patients with panic disorder and agoraphobia and healthy controls

Neuroimage: Clinical 24:102029, 2019. doi: 10.1016/j.nicl.2019.102029.

Neuropeptide S receptor gene variation modulates therapy outcome



Angermann ... **Kittel-Schneider ... Deckert** ...

A functional variant of the neuropeptide S receptor-1 gene modulates clinical outcomes and healthcare utilization in patients with systolic heart failure: results from the Interdisciplinary Network Heart Failure (INH) Study.

.European Journal of Heart Failure 2017 Mar;19(3):314-323

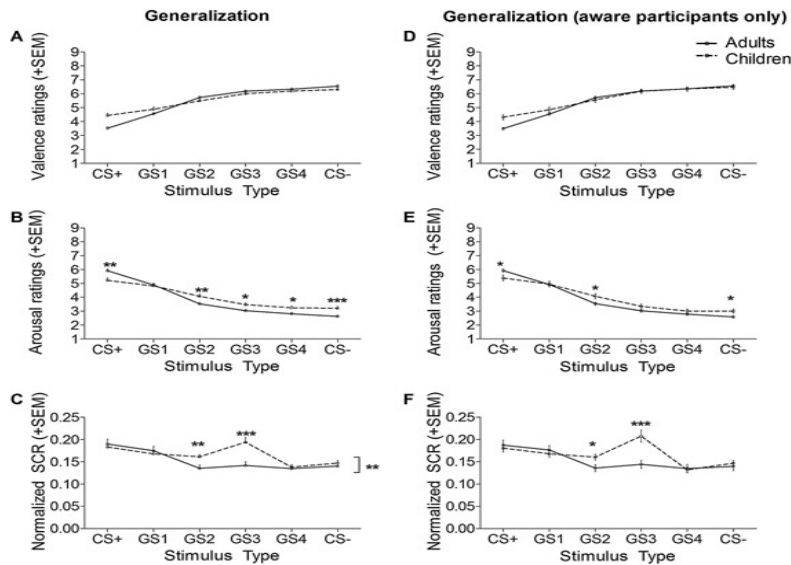
Next steps:

Prospective study on the relevance of neuropeptide S receptor gene variation as a predictor for psychotherapy outcome.

Probing into available neuropeptide S receptor antagonists as anxiolytics.

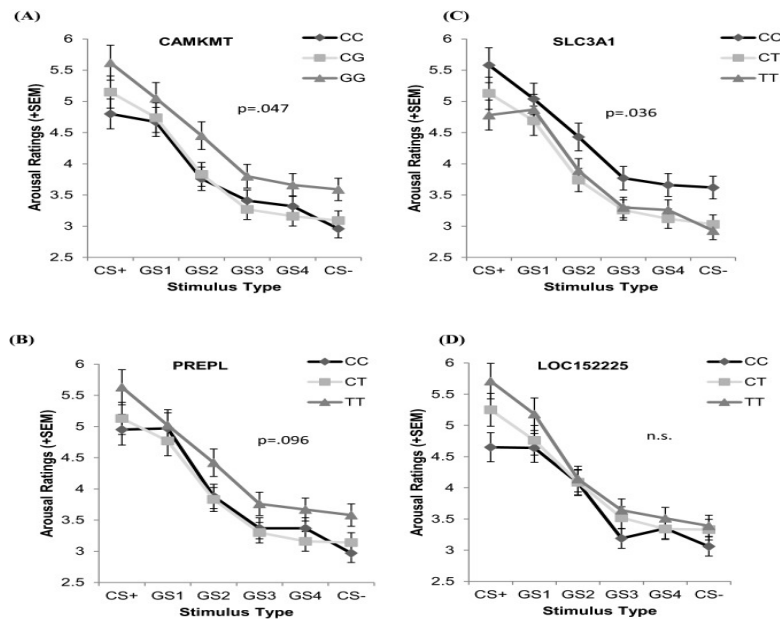
- **Generalization**

Anxiety endophenotype generalization is more pronounced in children than in adults.



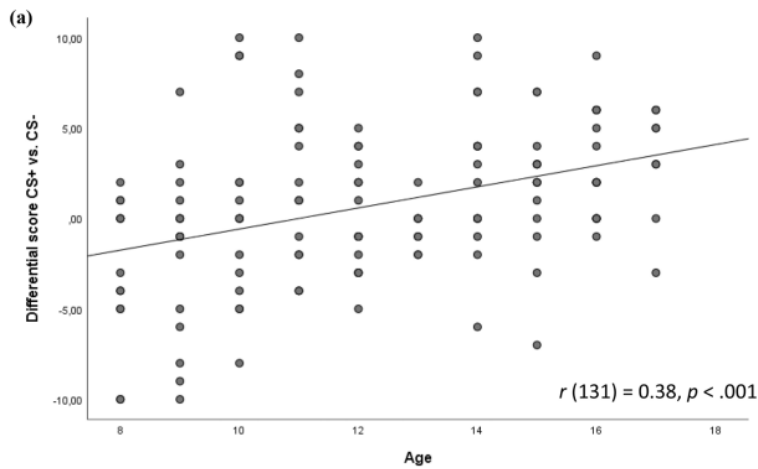
Schiele, **Reinhard**, Reif, Domschke, **Romanos**, **Deckert**, **Pauli**
 Developmental aspects of fear: Comparing the acquisition and generalization of conditioned fear in children and adults
 Developmental Psychobiology 58(4):471-81, 2016.

GWAS genes for anxiety (ANGST study) are associated with psychometric anxiety phenotypes as well as the anxiety endophenotype generalization



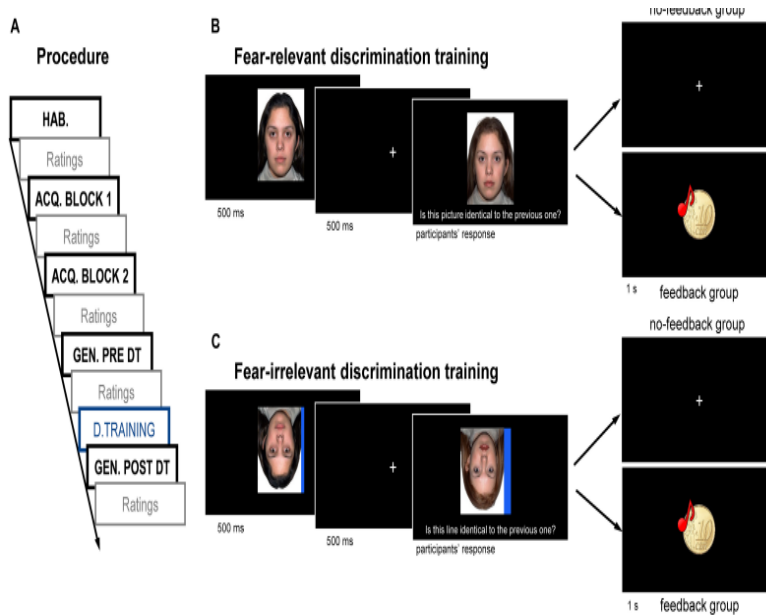
Reinhard, Drepper, Weber, Schiele, Kneer, Mittermeier, Frey, Reif, Pauli, Domschke, Deckert, Romanos.
 Anxiety risk SNPs on chromosome 2 modulate arousal in children in a fear generalization paradigm
 European Child and Adolescent Psychiatry 29(9):1301-1310, 2020.

The anxiety endophenotype generalization decreases with age in children.



Reinhard, Slysachak, Schiele, Andreatta, Reif, Domschke, Gamer, Pauli, Deckert, Romanos.
 Fear conditioning and stimulus generalization in association with age in children and adolescents.
 European Child and Adolescent Psychiatry 31(10):1581-1590, 2022

Anxiety endophenotype generalization can be reduced by discrimination training.



Herzog, Andreatta, Schneider, Schiele, Domschke, Romanos, Deckert, Pauli.
 Reducing Generalization of Conditioned Fear:
 Beneficial Impact of Fear Relevance and Feedback in Discrimination Training.
 Frontiers in Psychology 12:665711, 2021

Next steps:

A DFG -funded 2nd follow-up study on the relevance of generalization as a predictor for the development of anxiety disorders has been initiated.

A prospective study using discrimination training as an add-on to exposure training is being prepared.

- **Multicenter therapy trials**

To facilitate participation in multicenter AMG and MPG trials psychiatrists and psychologists have been systematically trained and the number of study nurses has been extended to a total of 4 assuring a continuous service during ongoing studies. This allowed us to contribute to interdisciplinary innovation-fund projects such as ZSE-Duo and Acht which are guideline –relevant studies für Centers of Rare Diseases and Adipositas centers. In addition, it ascertains our participation in up-coming multi-center therapy trials

1. Theta Burst stimulation in depression

Multicenter study on the efficacy of theta-burst stimulation in depression (lead Tübingen, BMBF-funded).

First patient has been included at adult psychiatry (Herrmann, Polak) in 04/2022.

2. CARE

Multicenter trial investigating the PRONIA protocol including a MRI scan and basis for a secondary preventive intervention in at-risk patients for schizophrenia (lead Düsseldorf, Innovation fund-funded).

First patient at adult and child&adolescent psychiatry (Kittel-Schneider, Deserno) to be included 07/2023.

3. P4D

Multicenter trial investigating the potential of genetics for personalized treatment in depression (lead Hanover, BMBF-funded). Würzburg work package is to develop a pharmacokinetic genetic testing kit.

First patient at adult psychiatry (Unterecker, Weber) to be included in 07/2023.

4. Network University Medicine (NUM) COVID-19 projects

Participation in *NapKon* providing mental health phenotyping batteries (Deckert and Hein) and *egePan* on mental health consequences for health system employees (Unterecker) during first funding period (2020-2021), *NapKon-Tip* as an adaptive trial platform with study on post-COVID, *CollPan* on mental health consequences in risk groups and *UTN* on use of digitalization strategies in COVID-19 pandemic during second funding period (2023-2024).

- **Therapeutic drug monitoring and pharmacogenetics**

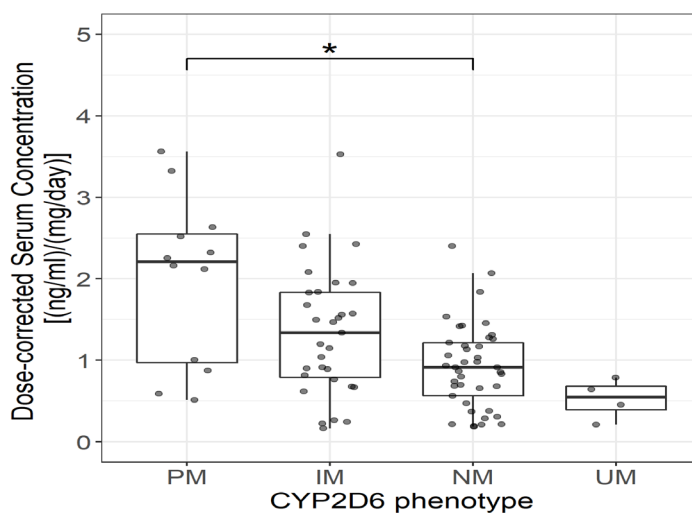
In 2017 the therapeutic drug monitoring platform was switched from HPLC to a Mass Spectrometry platform supported by DFG Large equipment funding.

This platform is performing app. 50 000 analyses/year and is serving not only the two Würzburg university psychiatries, local practitioners and regional hospitals such as the two district hospitals Lohr and Werneck and specialized child&adolescent psychiatries, but also university hospitals such as that of the University of Frankfurt.

In 2021 the therapeutic drug monitoring platform was complemented by a pharmacokinetic genetic testing platform for Cyp2D6 and Cyp2C19.

<https://www.ukw.de/psychiatrie/zuweisende-kolleginnen-und-kollegen/tdm-labor/>

This follows a recommendation of the Gene Diagnostic Committee of the German Secretary of Health and own data demonstrating that under naturalistic conditions Cyp2D6 and Cyp2C19 testing can indeed predict serum levels.



Scherf-Clavel, Weber, Wurst, Stonawski, Hommers, Unterecker, Wolf, Domschke, Rost, Brückl, Lucae, Uhr, Binder, Menke, Deckert. Pharmacopsychiatry 55(5):246-254, 2022.

Based on a commercial diagnostic kit using Maldi-ToF technology a novel and improved diagnostic kit was developed and validated according to RiLiBÄK criteria By PD Heike Weber and after a one-year pilot phase at the department is now offered also to external users.

This service is unique in German psychiatry and will enhance patient safety during pharmacological drug treatment.

- **Comprehensive Anxiety Center**

This center has been established on the model of Comprehensive Cancer Centers and the Comprehensive Heart Failure Center.

<https://www.ukw.de/clinical-profile-centers/comprehensive-anxiety-center-cac/homepage/>

It is a so-called A-Center of the Bavarian Hospital Plan allowing for additional funding. As a psychiatric A-Center it is unique in Bavaria and to our knowledge in Germany.

It consists of the CMH psychiatries and 9 partner hospitals in Bavaria and Baden-Württemberg.

Its mission is

- to disseminate guidelines into clinical practice in hospitals
- foster cooperation between psychiatrists and psychologists in hospitals
- provide training in anxiety therapies for psychiatrists, psychologists, therapists and nurses in hospitals
- offer case conferences for difficult-to-treat anxiety patients
- provide a network for clinical research on anxiety disorders
- meet at least once a year for a scientific conference.

Due to the pandemic its realization beyond the annual meeting proved difficult.

On-site educational visits which had just begun prior to the pandemic could not continue, but have been taken up again in 2023.

Online meetings necessary for case conferences at first were not possible due to the lack of digital infrastructure in non-university hospitals, but are scheduled to start in the 2nd half of 2023.

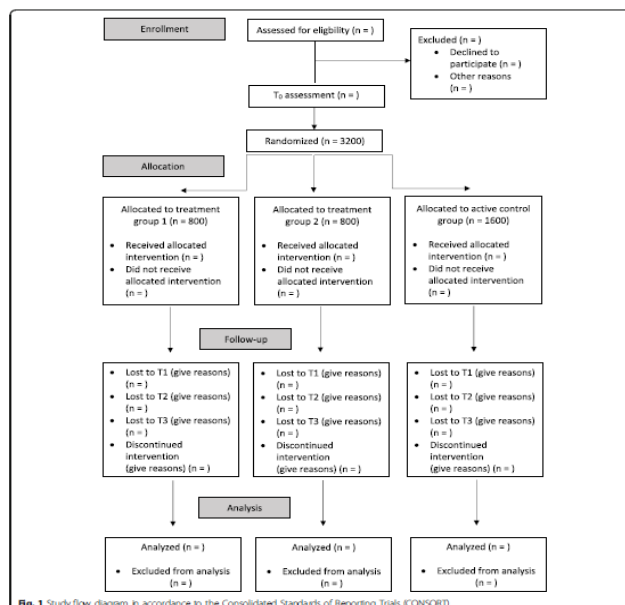
Nevertheless, even during the pandemic large psychiatric hospitals such as Nürnberg and Bamberg joined the Center.

With the end of the pandemic we have restarted the Center and will use its possibilities to the better of anxiety patients.

- **German Center for Prevention Research and Mental Health**

The kick-off meeting of the German Center of Prevention Research and Mental Health has taken place and the building will officially be opened for use on October 16, 2023. Numerous projects on **primary prevention** including a longitudinal cohort in cooperation between child&adolescent psychiatry and pediatrics and between child&adolescent psychiatry and education: <https://www.med.uni-wuerzburg.de/dzpp/institut/projekte/>

An exemplary flagship project is (“DUDE – Du und deine Emotionen / You and your emotions”) is a newly developed universal prevention program, based on a skills-based approach in schools, in 3200 young adolescents (age 11–14 years). DUDE is tailored to diminish the incidence of NSSI and to prevent its possible long-term consequences (e.g., suicidality) in adolescents. DUDE is a comprehensive approach to improve mental health via improved emotion regulation.



The medical psychology section of adult psychiatry with its focus on rehabilitation, i.e. **secondary and tertiary prevention** is extending its focus on mental health:

<https://www.psychotherapie.uni-wuerzburg.de/forschung/forschung.html>

A W1 professor position on prevention of dementia and dementia complications focusing has been filled.

<https://www.ukw.de/forschung/forschung-psychiatrie/forschungsschwerpunkte/praevention-von-demenz-und-demenzfolgeerkrankungen/>

The interdisciplinary structure of the center with participation of psychiatry and psychology as well as other disciplines under the lead of Marcel Romanos as a joint institute of University Hospital and University is unique in Germany and will facilitate prevention research on Mental Health at Würzburg and in the context of the German Center of Mental Health.

3. *Mentoring and Career development*

According to Würzburg university culture specific programs are complemented by interdisciplinary programs allowing for interdisciplinary exchange.

To assure participation of clinicians and scientists interested in mental health, members of the CMH are also members of these interdisciplinary program boards.

A common feature of all structured programs beyond interdisciplinary mentorates of 3-4 scientists and annual meetings are skills courses and obligatory presentation of research results at national and/or international congresses.

The following strategies are employed to recruit excellent clinicians and scientists:

Undergraduate studies (human medicine, psychology, biology):

1. Clinical orientation of medical psychology curriculum
2. Participation in psychology bachelor curriculum
3. Elective courses with clinical topics for medical students
4. Internships for psychologists and biologists at the psychiatry departments
5. Integration of clinical topics as a consequence of the curricular reform

Graduate studies (human medicine, psychology, biology, neuroscience)

1. Short- and long-term internships at the psychiatry departments
2. Elective courses with clinical and scientific topics
3. **English-speaking Elite Master Translational Neuroscience**
4. Elective participation of medical students in the elite master translational neuroscience
5. Mentoring of medical students during structured MD theses with skills courses
6. Establishment of "Day of University Psychiatry" with lectures by external scientists (Meyer-Lindenberg, Grabe) and internal scientists (Deckert, Hein)

At all levels there are special programs for female clinicians and scientist and boards representing program students.

In summary, this allows mentoring of clinicians and scientists from undergraduate studies to tenure track professorships.

Examples are

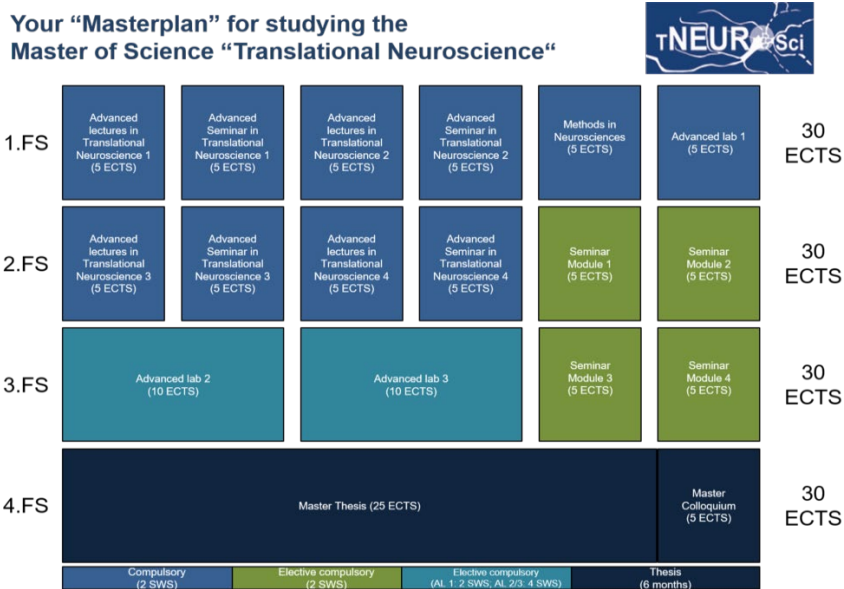
- Graduate Students

Elite Master Translational Neuroscience

<https://www.med.uni-wuerzburg.de/translneurosci/elite-graduate-program/>

Program Coordinators: Sendtner, Deckert

Coordinator: Villmann

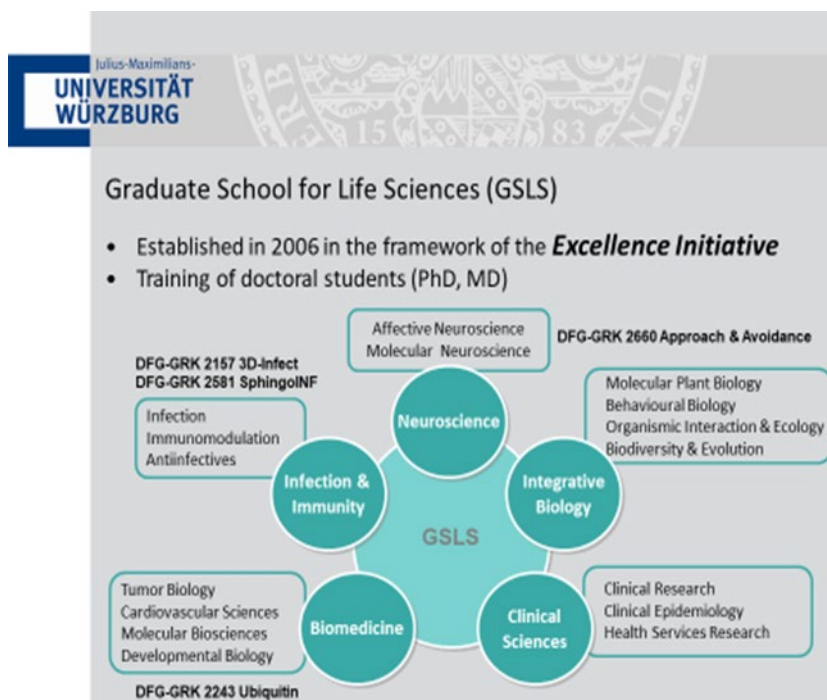


- PhD Students

Graduate School of Life Sciences - Neuroscience Class

<https://www.graduateschools.uni-wuerzburg.de/life-sciences/startseite/>

Speakers: Sendtner, Gamer



RTG 2660 Approach/Avoidance (integrated in GSLS)

<https://www.uni-wuerzburg.de/grk2660/startseite/>

Speaker: Gamer

Steering Committee: Hein, Tovote

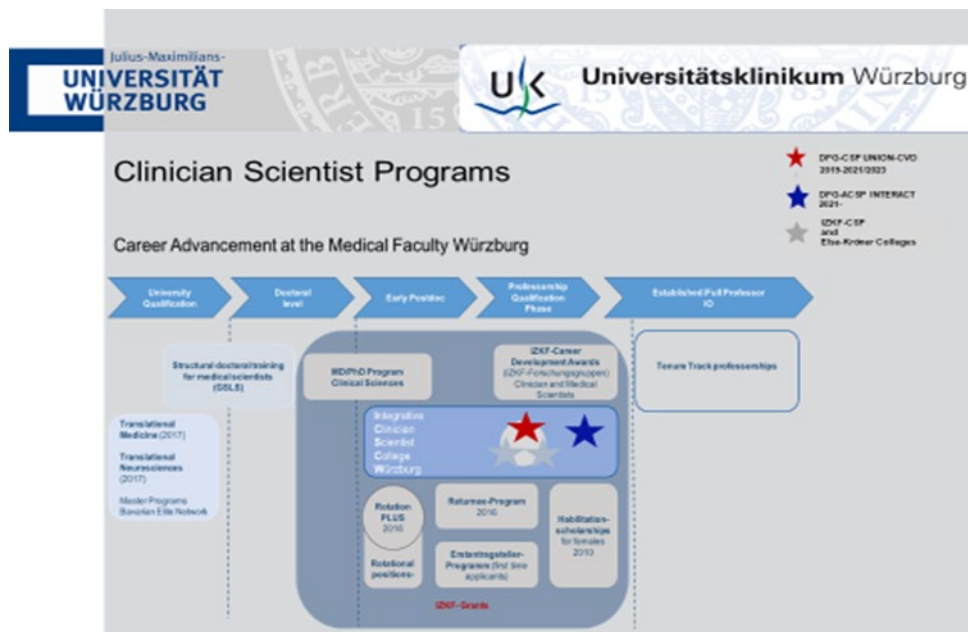


- Clinician Scientists

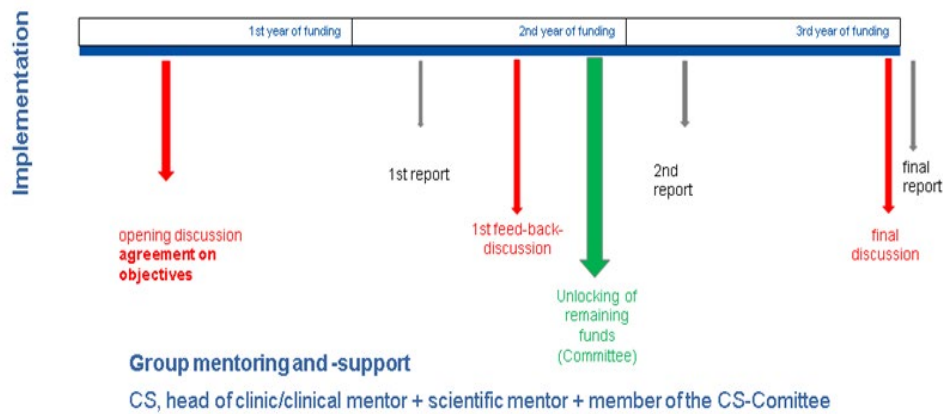
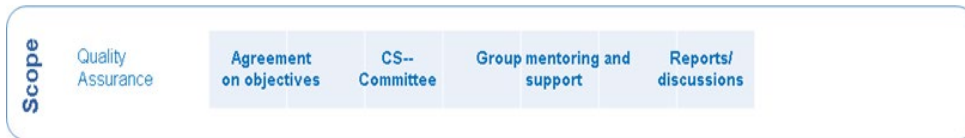
Integrative Clinician Scientist College

<https://www.med.uni-wuerzburg.de/izkf/integrative-clinician-scientist-college-wuerzburg/>

Steering Committee: Deckert



DFG-Clinician Scientist program UNION-CVD (integrated in ICSC)
<https://www.med.uni-wuerzburg.de/izkf/integrative-clinician-scientist-college-wuerzburg/clinicianscientist-programm-understandinginterorgannetworksincardiacandvascular diseases/>
 Steering Committee: Deckert



D Research Funding of the Center of Mental Health (2021-2022)

Funding by DFG or BMBF or EU in general is for positions as well as consumables.

Programs specifically funding positions are

the Elite Master Translational Neuroscience
for W2 and lecturer positions for 10 years until 2028

the DFG Research Training Group RTG 2660
for PhD students for 3 years each until 2025 with a possible extension
until 2029

the DFG clinician scientist program UNION-CVD
for clinician scientists for 1.5 years each until 2024 with a permanent
structure established by the ICSC of the IZKF.

Equipment was and is either funded by the Bavarian state government, the DFG Large Equipment program, DFG and BMBF projects and their overheads.

- **Grants of all member institutions and individuals**

Principal Investigator	Project Title	Grant Agency	Project Number	Duration	Funds	annual
Deckert	Network PROTECT-AD in the research network for mental disorders	BMBF	BMBF 01EE1402	02/15 - 12/21	1.388.916 €	231.486 €
Deckert	Knowledge for personalized medicine in psychiatric application - pharmacogenetics and TDM 1. Cooperation agreement for the joint project	MED	MED-1604-0010	11/16 - 02/21	209.600 €	52.400 €
Deckert	"Vagus-Evoked Potentials and Near-Infrared Spectroscopy (NIRS)"	Vogel foundation	Vogel foundation	07/10 - 12/21	625.000 €	56.818 €
Deckert	Contract for the "Creation of the S2e guideline for apparatus and laboratory diagnostics in psychiatry" with DGPPN e.V.	DGPPN		09/21 - 12/22	30.600 €	22.950 €
Deckert	DFG-Clinician Scientist-Programm UNION-CVD	DFG	UNION-CVD	04/19 -09/22	450.000 €	150.000 €
Deckert	Unterstützung des Vorhabens "Digitalisierung historischer Akten" Ausschüttung erfolgt über den Unniversitätsbund	V-09 UDM/REGIO	Vogel Stiftung	12/22 - 11/23	40.000 €	40.000 €
Deckert, Pauli, Romanos, Sendtner, Villmann, Volkmann	Elite network Bavaria, elite course "Translational Neuroscience" Personal	Elite network bavaria	Elite network bavaria	10/18 - 09/28	6.500.000 €	650.000 €
Erhardt-Lehmann	Dynamiken von Furchtgeneralisierungsprozessen und deren prädiktiver Wert für die Entwicklung Angstbezogener Psychopathologien bei Jugendlichen und (jungen) Erwachsenen: die Rolle von Alter, Lebensereignissen und (epi)genetischen Faktoren	I-01 DFG		10/22 - 09/25	151.970 €	50.656 €
Erhardt-Lehmann	Weiterleitung der DFG-Sachbeihilfe zum Thema "Dynamiken von Furchtgeneralisierungsprozessen und deren prädiktiver Wert für die Entwicklung Angstbezogener Psychopathologien bei Jugendlichen und (jungen) Erwachsenen: die Rolle von Alter,	I-01 DFG	Weiterleitung Universität Erlangen-Nbg.	10/22 - 09/25	119.400 €	39.800 €

	Lebensereignissen und (epi)genetischen Faktoren"					
Gamer	Eye or mouth lookers? Saccade and pupillary responses to diagnostic features of emotional facial expressions	DAAD	99451	2020 - 2021	7.450 €	3.725 €
Gamer	GRK 2660 (Speaker: Gamer; PIs: Asan, Hein, Kübler, Lesch, Pauli, Reiter, Romanos, Schmitt-Böhner, Sommer, Tovote)	GRK	827842	11/21 - 10/24	5.043.818 €	1.008.763 €
Hein	Heisenberg Professorship	DFG	DFG HE 4566/5-1	10/17 - 06/20	1.058.864 €	211.772 €
Hein	Research grant to support the research project of Dr. Yanyan Qi - DAAD Program "Sino-German (CSC-DAAD) Postdoc Scholarship Program"	DAAD	Stipendiatin Frau Dr. Yanyan Qi	03/20 - 02/21	2.400 €	2.400 €
Hein	Sino-German Mobility Program: Cultural Neuroscience Research on Social Motivation and Behavior	Chinese-German center for science promotion	M-0093	01/21 - 12/23	77.025 €	25.675 €
Hein	KFO 5001 sub-project P05 "Social buffering" in pain resilience and resolution	DFG	DFG KFO 5001 TP 05	01/21 - 12/24	265.284 €	66.321 €
Herrmann, Pauli	Non-invasive brain stimulation to improve psychotherapy of anxiety disorders	DFG	DFG 4541/4-1	11/20 - 10/23	237.140 €	79.046 €
Herrmann	TBS-D-Studie	BMBF	Uniklinik Tübingen	08/21 - 12/24	3.000 €	
Hewig	European Regional Development Fund	EFRE		2017 - 2021	595.411 €	119.082 €
Hewig	COOP HE5330/15-1 Neuroscientific EEG personality research	DFG	COOP HE5330/15-1	2019 - 2022	13.339 €	3.334 €
Hilger	A new perspective on intelligence and the neural basis of g: applying graph theoretical network analysis to elucidate the relationship between attention and intelligence	DFG	822854	07/20 - 06/23	151.500 €	50.500 €
Kittel-Schneider	MTA "hiPCS/ADHD" with the University of Zurich (The Waterloo Foundation)	Uni Zurich	Waterloo	11/20 - 10/23	2.281 €	760 €
Kittel-Schneider	MTA "hiPCS/ADHD" mit University of Southern Denmark	University clinic south denmark		08/21 - 12/22	24.000 €	16.941 €
Kittel-Schneider	Support from the German Depression Aid Foundation and the Deutsche Bahn Foundation	German Depression Aid Foundation	German Depression Aid Foundation	03/21 - 12/21	1.000 €	1.000 €
Kittel-Schneider	Neurobiologische Grundlagen affektiver Erkrankungen und ADHS im Erwachse	X-02 KLOM SP		03/21 - 06/25	5.000 €	1.000 €
Kittel-Schneider, Berninger	Babylotsen	UDM/REGIO		02/22 - 12/24	162.344 €	57.297 €

Kittel-Schneider	Unterstützung des Kooperationsprojektes "Babylotsen" der Klinik für Psychiatrie, Psychotherapie und Psychosomatik und der Klinik für Gynäkologie	X-02 KLOM SP	Lions Clubs	02/22 - 12/24	30.000 €	10.285 €
Kittel-Schneider	CARE - Computer-assistierte Risiko-Evaluation in der Früherkennung psychotischer Erkrankungen	I-04 BLM	Innofond 01NVF20004	01/22 - 12/24	258.593 €	86.197 €
Kittel-Schneider	Kooperationsvertrag für die Unterstützung der Aktivitäten des Bündnisses gegen Depression (Koordinationszentrale sowie regionale Bündnisse)	V-04 UDM/STIF	Stiftung Dt. Depressionshilfe	04/22 - 11/22	1.000 €	
Kübler	Nonorganic sleep disorders: indicative package for inpatient psychosomatic rehabilitation	DRV	836613	2018 - 2022	359.580 €	89.895 €
Kübler	Brain Computer Interface	Lotte-Schopper-Foundation		2019 - 2021	21.800 €	10.900 €
Lauer	Casetrain	VHB	H-220-08-05-13Lau1, Lau2, Lau3	10/18 - 11/21	69.767 €	23.255 €
Lauterbach, Pauli	Doctoral focus "Resilience factors in pain processing"	Evang. Studies		2015 - 2021	691.000 €	115.166 €
Lesch	DECODE - Cadherin 13 function in the cortico-cerebellar network in neurodevelopmental disorders	BMBF	BMBF 01EW1902	05/19 - 04/22	296.525 €	98.841 €
Lesch	Serotonin and BEYOND: Brain development research Excelling Young Ones in Neurotechnologies and Discoveries' — 'SEROTONIN and BEYOND'	EU	EU 953327	01/21 - 12/25	252.788 €	50.557 €
Lesch	Graduiertenkolleg "Neuronale Mechanismen von (mal)adaptivem Annäherungs-Vermeidungsverhalten " (Einrichtungsantrag, GRK 2660/1)	I-01 DFG GRK	Graduiertenkolleg	11/21 - 04/24	450.729 €	180.291 €
Lesch	The health benefits of deuterium depletion on synaptic function, regional metabolism, and behaviour (Aqua-Synapse)	I-02 EU	Aqua-Synapse MSCA-2021-SE-01	01/23 - 12/26	128.800 €	32.200 €
Mattheisen	PLOT-BD - Personalization of Long-Term Treatment in Bipolar Disorders	BMBF	BMBF 01KU1914	07/19 - 06/22	284.543 €	94.858 €
Mattheisen	Mikrodeletionssyndrom 22q11, klinische molekulare Untersuchungen in einer psychiatrischen Hochrisikohorte	IZKF	N-388	01/19 - 12/21	186.380 €	62.126 €
McNeill	2021 BBRF Young Investigator Grant -	V-04 UDM/STIF	Grant Agreement	01/22 - 01/24	61.000 €	30.500 €

	NARSAD Grant Agreement "Investigating The Functional Role OF ADGRL3 Genetic Variation In A Novel In Vitro Model Of Adult ADHD"					
Meng	Wirksamkeit der verhaltensmedizinisch orientierten Rehabilitation mit di	III-08 SPOAPK	VOR-psy	01/23 - 06/25	166.670 €	66.668 €
Neufang	Serotonergic modulation of impulsivity	DFG	DFG NE 1583/5-1	07/18 - 06/21	280.500 €	93.500 €
Nieberler	Rotation-program	IZKF	Rotation-positions	11/21 - 07/22	70.000 €	70.000 €
Pauli	Influence of psychological consequences of accidents on road safety relevant driving competence of accident car drivers	WIVW	DFG 847076	04/20 - 12/22	53.526 €	21.410 €
Pauli	Use of augmented reality in plant planning and material flow optimization	BayVFP digital funding line	823900 PriMA	03/20 - 03/23	147.300 €	49.100 €
Pauli	Privacy Matters	EU	849160	09/20 - 10/23	200.588 €	66.862 €
Pauli	Chinesisch-Deutsches Mobilitätsprogramm: Addiction Memory Modifacation by Virtual Reality: from Basic Research to the Clinic	BMBF	F-461	04/20 - 03/23	117.052 €	39.017 €
Pauli, Hein, Gamer	The long-term effects of Corona on mental health: Trajectories of adaptive and maladaptive coping	Volkswagen Foundation	836600	2020 - 2022	119.400 €	59.700 €
Pauli, Kübler	Combination of virtual reality and brain-computer interface for the therapy of chronic pain - sub-project: Optimization of virtual reality in neurofeedback	BMBF	VDI 814087	07/20 - 06/23	713.640 €	237.880 €
Pittig	Decision conflicts in anxiety	DFG	DFG 846843	2018 - 2021	373.874 €	93.468 €
Pittig	Marianne Plehn Program Mrs. Paula Engelke	junior group Dr. Pittig		05/21 - 12/24	21.200 €	6.057 €
Reinhard	Dynamiken von Furchtgeneralisierungsprozessen und deren prädiktiver Wert für die Entwicklung Angstbezogener Psychopathologien bei Jugendlichen und (jungen) Erwachsenen: die Rolle von Alter, Lebensereignissen und (epi)genetischen Faktoren	I-01 DFG	DFG RE 4928/1-1	10/22 - 09/25	134.900 €	44.966 €
Reiter	Graduiertenkolleg "Neuronale Mechanismen von (mal)adaptivem Annäherungs-Vermeidungsverhalten	I-01 DFG GRK	DFG GRK 2660/1	11/21 - 04/24	193.225 €	94.294 €

	" (Einrichtungsantrag, GRK 2660/1)					
Reiter	DFG SFB 940/3: Cognitive Control, Teilprojekt B07	I-01 DFG SFB	DFG SFB 940 B07	03/22 - 06/24	177.388 €	78.839 €
Romanos	ESCALife (Evidence-based, Stepped Care of ADHD along the life-span; ESCALife, ESCApreschool, ESCASchool)	BMBF	01EE1408	09/15 - 12/21	708.184 €	118.030 €
Romanos	INTEGRATE-ADHD - ADHD in Germany - Comparison and integration of administrative and epidemiological ADHD diagnostic data through clinical assessment	Innofonds	Innofonds 01VSF19014	01/21 - 12/23	771.975 €	257.325 €
Romanos	Corona - COVMon - Monitoring concepts for SARS-CoV-2 - Epidemiology and co-infections, TF	BMBF	BMBF 03COV16B	10/20 - 09/22	61.097 €	30.548 €
Romanos	DS22q - Creation of an S3 guideline deletion and duplication syndrome	Innofonds	Innofonds 01VSF21011	04/22 - 09/24	288.250 €	115.300 €
Romanos	Zuwendung der DGKJP zur Unterstützung der Entwicklung der Leitlinie zur Behandlung des 22q11.2 Deletions- und Duplikationssyndrom im Kindes-, Jugend- und Erwachsenenalter	V-07 UDM/VER	Leitlinienerstellung	01.10.2022	10.000 €	
Romanos	Effectiveness of cross-sector models of care in psychiatry - a prospective, controlled, multi-centre observational study (PsychCare)	Innovation Committee	G-BA 01VSF16053 forwarding TU Dresden	07/17 - 06/21	29.419 €	7.354 €
Romanos	Understanding and Preventing Problem Behavior in Intellectual Development Disorder and Autism Spectrum Disorder (ProVia)	ProVia	ProVia	11/20 - 10/22	202.146 €	101.073 €
Romanos	Serotonergic modulation of impulsivity	DFG	DFG RO 4139/6-1	02/20 - 01/23	5.450 €	1.816 €
Romanos	Investigator contract for the "A-FFIP" study with the Goethe University Frankfurt am Main 1. Cooperation agreement	DFG	DFG 'A-FFIP'	seit 03/18	90.000 €	18.000 €
Romanos	Cooperation agreement "PREMO - Prevention through effective emotion regulation" with commercial health insurance company KKH	KKH	KKH	10/18 - 11/22	415.310 €	103.827 €
Romanos	Cooperation agreement with commercial health insurance company KKH	KKH	KKH	09/20 - 03/24	612.500 €	175.000 €

Tovote	Cerebellum and Emotional Networks - (CEN)	EU	CEN 956414	06/21 - 05/25	505.576 €	126.394 €
Tovote	Characterization of periaqueductal gray circuits for top-down motor/autonomic control and bottom-up cardiac interoception in fear and anxiety	DFG	DFG TO 1124/1-1	10/17 - 09/21	582.327 €	145.581 €
Tovote	Heisenberg professorship 1st bridging permit 2nd permit	DFG	DFG TO 1124/3-1	04/20 - 03/22	225.500 €	112.750 €
Tovote	Subproject B06: Impaired interaction in basal ganglia, locus coeruleus and midbrain circuits during defensive behavior: a model for freezing of gait in Parkinson's disease?	DFG	DFG SFB TRR 295 B06	07/20 - 06/24	392.900 €	98.225 €
Tovote	INF sub-project: Development of standards for data quality and reproduction	DFG	DFG SFB TRR 295 INF	07/20 - 06/24	168.700 €	34.675 €
Unterecker	Development, testing and implementation of regionally adaptive care structures and processes for evidence-based pandemic management coordinated by university medicine	NUM	EgePan	08/20 - 03/21	33.150 €	33.150 €
Villmann	Research group, sub-project P5 "Autoantibodies against glycine receptors and spinal disinhibition"	DFG	DFG VI 586/11-1	10/20 - 09/23	219.565 €	94.967 €
Villmann	KFO 5001 sub-project P03 "Neuropathic pain induced by Caspr2 autoantibodies: pathogenesis and regression"	DFG	DFG VI 586/12-1	10/21 - 09/25	284.900 €	71.225 €
Villmann	Sub-project B01: "Ultra-soft matrix composites for 3D neuroglia in vitro research"	DFG	DFG SFB TRR 225 B01	01/18 - 12/21	271.000 €	67.750 €
Vogel	Development of phase-specific sets of screening indicators and outcome measures for the neurotraumatological rehabilitation of insured persons of the statutory accident insurance	DGUV	Neurotraumatologische rehabilitation	03/20 - 06/24	360.000 €	90.000 €
Vogel	The health and work pilots: Systemic integration management for people with mental disabilities (SEMpsych)	BMA	SEMpsych	11/19 - 10/24	343.036 €	85.759 €
Vogel	Development of training on the peer review process of socio-medical	DRV Bund	Peer Review-procedure	01/19 - 12/24	113.220 €	22.644 €

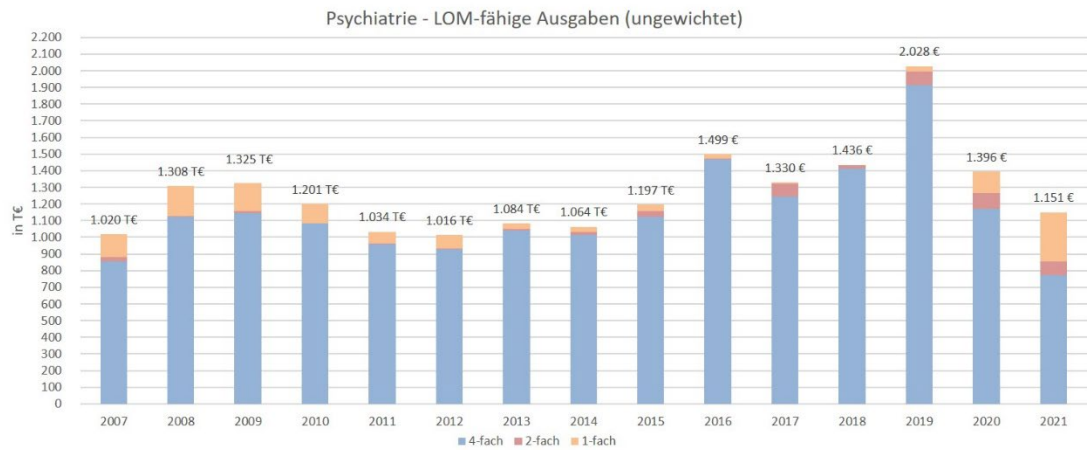
	assessment of claims for reduced earning capacity pension, 2019-2024					
Vogel	Promoting the informedness of rehabilitants in medical-occupational rehabilitation (MBOR): Substudy B - Development and formative evaluation of a question prompt instrument	DRV Bavaria South	MBOR	01/20 -12/21	82.339 €	41.169 €
Vogel	Transition management in the medical rehabilitation of the statutory pension insurance: development, testing and formative evaluation of a structured concept.	DRV Bund	reconciliation management	02/20 -01/23	422.144 €	140.714 €
Vogel	Development of phase-specific sets of screening indicators and outcome measures for the neurotraumatological rehabilitation of insured persons of the statutory accident insurance	DGUV	Screening	01/20 - 03/24	480.000 €	120.000 €
Vogel	Development of phase-specific sets of screening indicators and outcome measures for the neurotraumatological rehabilitation of insured persons of the statutory accident insurance	DRV Bavaria South	A feasibility study	07/20 - 06/21	94.218 €	94.218 €
Vogel	Development and evaluation of a socio-medical curriculum for working as a medical expert in the area of the statutory pension insurance SoCuMed	DRV Bund	SoCuMed	12/20 -11/22	239.982 €	119.991 €
Vogel	Telemedical Franconian obesity aftercare therapy (Tele-FANT)	LGL	Tele-FANT	06/21 - 09/23	200.000 €	100.000 €
Vogel	Evaluation of a web-based training phase as part of a prevention service supported by the German Pension Insurance, Part 1	DRV Bavaria South	Trainings phase clinic Höhenried	06/21 - 11/22	156.022 €	104.014 €
Vogel	Access-optimized work ability-oriented rehabilitation (ZAR)	BMA	ZAR	11/21 - 10/26	815.066 €	163.013 €
Vogel	Time-adjusted activity with outpatient, job-related accompanying intervention (ZaTaB)	BMA	ZaTaB	11/21 - 10/26	1.283.833 €	256.766 €
Vogel	Entwicklung und formative Evaluation einer Online-Informationsplattform für Versicherte mit Rehabilitationsbedarf bei psychischen Komorbiditäten und arbeits-/berufsbezogenen	III-08 SPOAPK	Reha-passt	01/23 - 12/25	484.827 €	161.609 €

	Belastungen (Reha- passt)					
Vogel	Formative Evaluation einer dualen Rehabilitation in verschiedenen Indikationsbereichen (DUAL)	III-08 SPOAPK	DUAL	01/22 - 06/25	294.600 €	84.000 €
Vogel	Traumabehandlung in den Senioreneinrichtungen der Stiftung Bürgerspital zum Hl. Geist Würzburg	V-04 UDM/STIF	Stiftung Bürgerspital zum Hl. Geist	07/22 - 12/24	150.000 €	60.000 €
Weber	P4D - Personalisierte, prädiktive, präzise und präventive Medizin zur Verbesserung der Früherkennung, Diagnostik, Therapie und Prävention depressiver Erkrankungen - Pharmakogenomische Analysen zur Entwicklung eines Behandlungs- sowie Diagnostik-Assays	BMBF 01EK2204G	P4D	09/22 - 08/25	539.465 €	179.821 €
Wiemer	Cognitive biases in associative hazard and safety learning	DFG	German-China 822915	09/18 - 09/21	336.486 €	112.162 €
Ziegler	Cardiovascular regulation in ADHD (KOR-ADHS)	University federation	University federation e.V.	12/21 - 11/23	4.500 €	2.250 €
Sum					35.373.788€	8.538.169 €

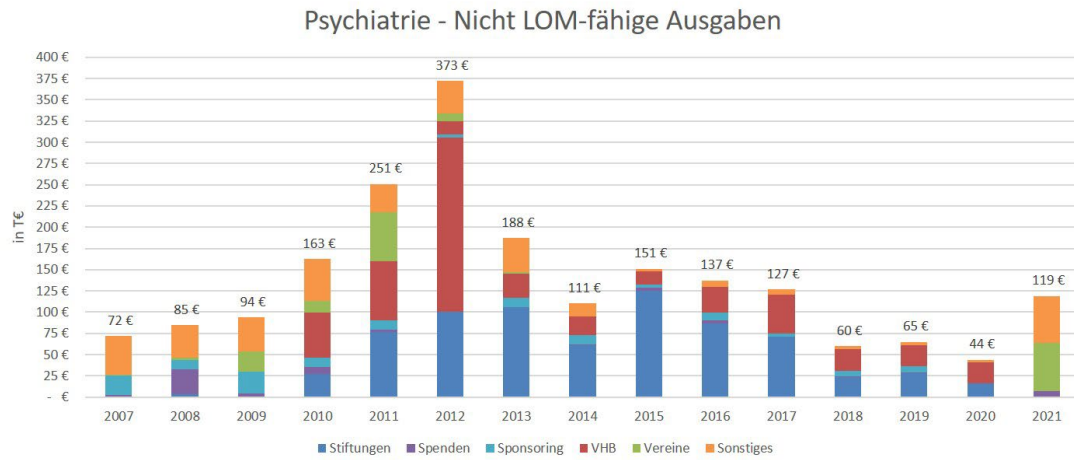
- **Grants of adult and child&adolescent psychiatry**

Adult psychiatry (without section of medical psychology)

Grants from public sources

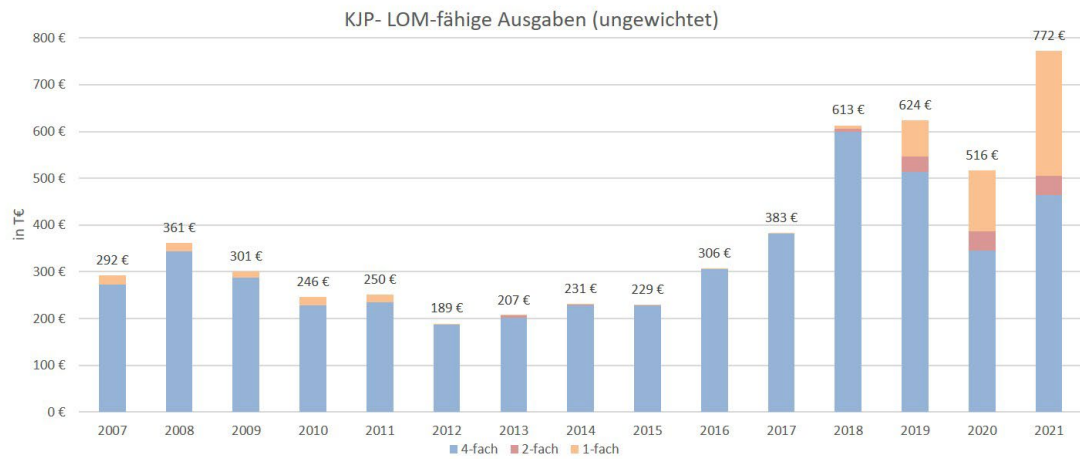


Grants from privates sources

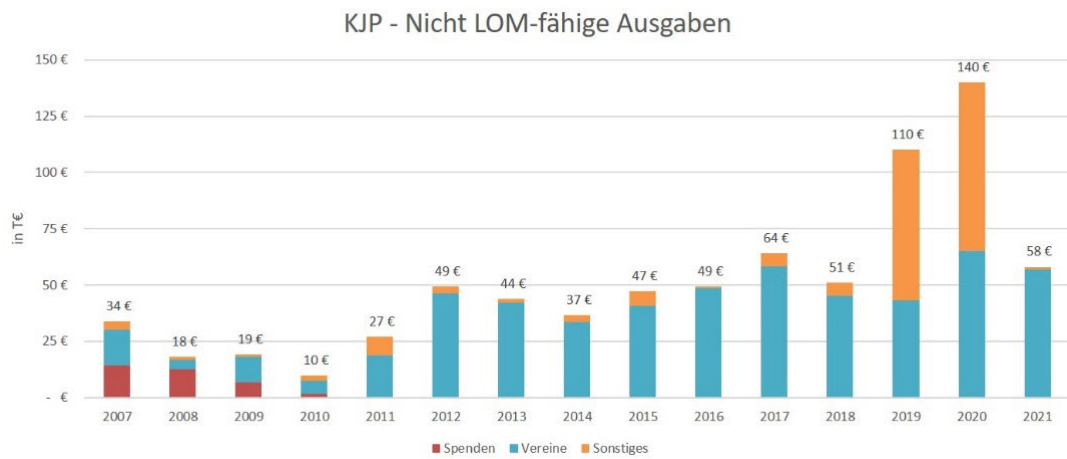


Child & adolescent psychiatry

Grants from public sources



Grants from private sources



E Publications of the Center of Mental Health (2021-2022)

- Publications in 2021

- Aboagye B, Weber T, Merdian HL, Bartsch D, Lesch KP, Waider J (2021) Serotonin deficiency induced after brain maturation rescues consequences of early life adversity. *Sci Rep*, 11(1): 1-13
- Akhrif A, Roy A, Peters K, Lesch KP, Romanos M, Schmitt-Böhrer A, Neufang S (2021) REVERSE phenotyping- Can the phenotype following constitutive Tph2 gene inactivation in mice be transferred to children and adolescents with and without adhd? *Brain Behav*, 11(5): e02054
- Alho EJJ, Fonoff ET, Di Lorenzo Alho AT, Nagy J, Heinsen H (2021) Use of computational fluid dynamics for 3D fiber tract visualization on human high-thickness histological slices: histological mesh tractography. *Brain Struct Funct*, 226: 323–333
- Andreatta M, Pauli P (2021) Contextual modulation of conditioned responses in humans: A review on virtual reality studies. *Clin Psychol Rev*, 90: 102095
- Ask H, Cheesman R, Jami ES, Levey DF, Purves KL, Weber H (2021) Genetic contributions to anxiety disorders: where we are and where we are heading . *Psychol Med*, 51: 2231–2246
- Barnes-Scheufler CV, Passow C, Rösler L, Mayer JS, Oertel V, Kittel-Schneider S, Matura S, Reif A, Bittner RA (2021) Transdiagnostic comparison of visual working memory capacity in bipolar disorder and schizophrenia. *Int J Bipolar Disord*, 9(1): 1-12
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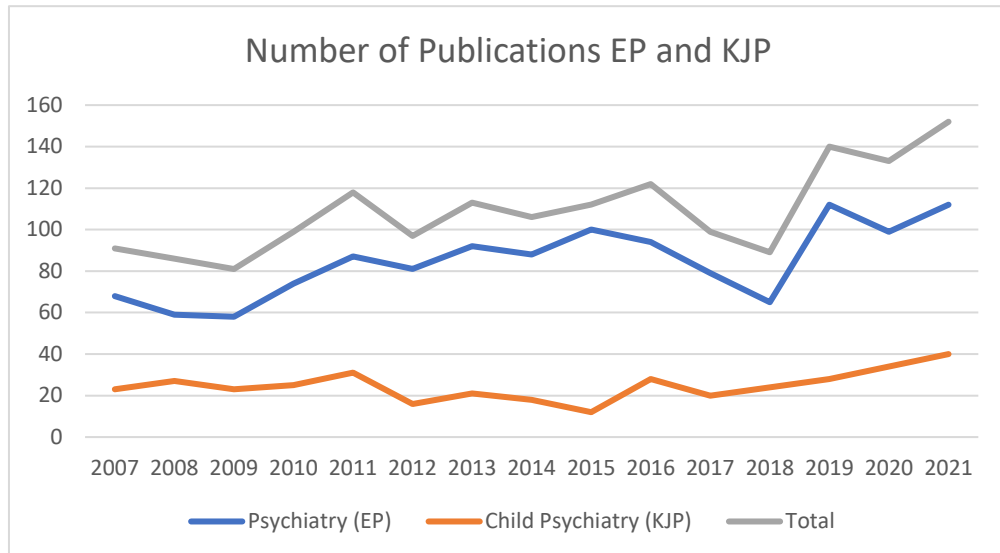
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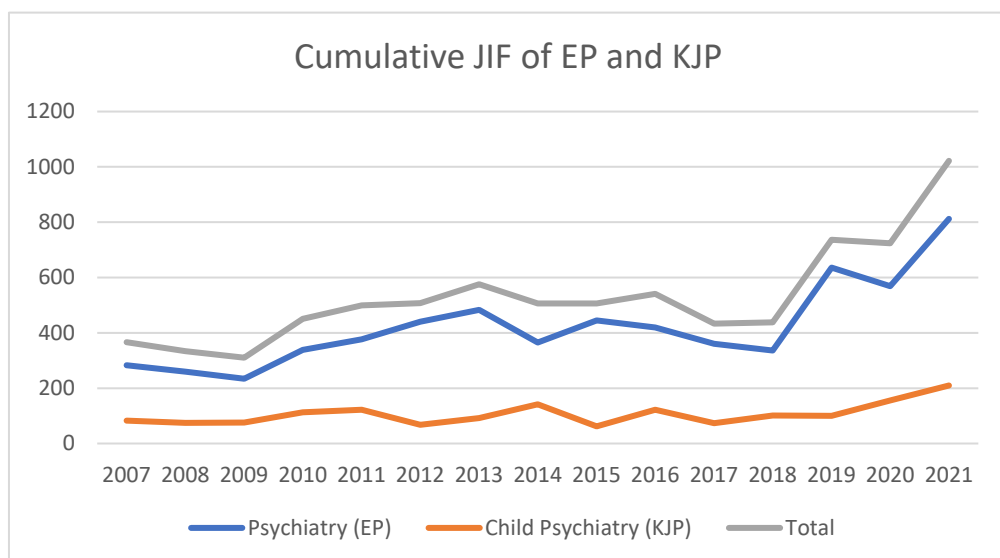
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Analysis of publications of Psychiatry, Psychosomatics and Psychotherapy (EP) and Child and Adolescent Psychiatry, Psychosomatics and Psychotherapy (KJP)

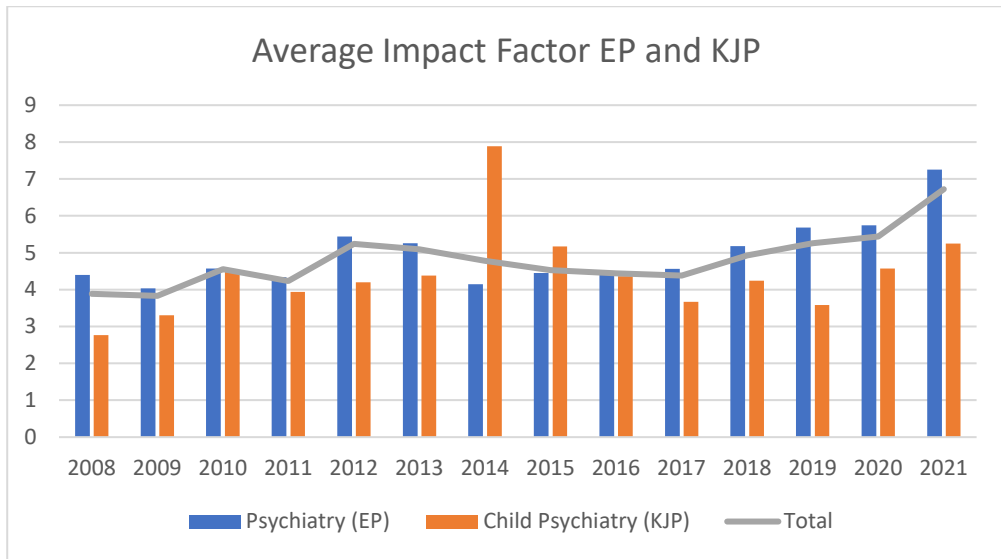
a) Number of publications



b) Cumulative Impact Factor



c) Average Impact Factor



Würzburg, June 14, 2023