

Publications of the Department of Clinical Psychology and Psychophysiology

2023

Maywald M, Pogarell O, Levai S, Paolini M, Tschentscher N, Rauchmann BS, Krause D, Stöcklein S, Goerigk S, Röll L, Ertl-Wagner B, Papazov B, Keeser D, Karch S, Chrobok A. Neurofunctional differences and similarities between persistent postural-perceptual dizziness and anxiety disorder. *Neuroimage Clin.* 2023 Jan 19;37:103330. doi: 10.1016/j.nicl.2023.103330. Online ahead of print. PMID: 36696807

Tschentscher N, Woll CFJ, Bucher J, Kriesche D, Engel RR, Karch S. Neurocognitive Deficits in First-Episode and Chronic Psychotic Disorders: A Systematic Review from 2009 to 2022. *Brain Sci.* 2023, 13, 299. <https://doi.org/10.3390/brainsci13020299> Academic Editor: Gary D

2022

Maywald M, Paolini M, Rauchmann BS, Gerz C, Heppe JL, Wolf A, Lerchenberger L, Tominschek I, Stöcklein S, Reidler P, Tschentscher N, Ertl-Wagner B, Pogarell O, Keeser D, Karch S. Individual- and Connectivity-Based Real-Time fMRI Neurofeedback to Modulate Emotion-Related Brain Responses in Patients with Depression: A Pilot Study. *Brain Sci.* 2022 Dec 14;12(12):1714. doi: 10.3390/brainsci12121714. IF 3.333

Mergl R, Karch S, Henl J, Meindl D, Schöpf F, Szabo SI, Hallweger P, Heiler P, Maywald M, Tschentscher N, Allgaier AK, Pogarell O. Effects of Four Different EEG-Neurofeedback Reinforcement Types in Healthy Individuals - A Pilot Study. *Clin EEG Neurosci.* 2022 Nov 13:15500594221138278. doi: 10.1177/15500594221138278. Online ahead of print. IF 2.046

Krause D, Chrobok A, Karch S, Keeser D, Manz KM, Koch W, Brendel M, Rominger A, Koller G, Behle N, Pogarell O. Binding potential changes of SERT in patients with depression are associated with remission: A prospective [^{123}I]β-CIT-SPECT study. *Exp Clin Psychopharmacol.* 2022 May 23. doi: 10.1037/ph0000566. Online ahead of print. IF 3.492

Kriesche D, Woll CFJ, Tschentscher N, Engel RR, Karch S. Neurocognitive deficits in depression: a systematic review of cognitive impairment in the acute and remitted state. *Eur Arch Psychiatry Clin Neurosci.* 2022 Sep 1. doi: 10.1007/s00406-022-01479-5. Online ahead of print. IF 5.760

Paolini M, Keeser D, Rauchmann BS, Gschwendtner S, Jeanty H, Reckenfelderbäumer A, Yaseen O, Reidler P, Rabenstein A, Engelbregt HJ, Maywald M, Blautzik J, Ertl-Wagner B, Pogarell O, Rüther T, Karch S. Correlations Between the DMN and the Smoking Cessation Outcome of a Real-Time fMRI Neurofeedback Supported Exploratory Therapy Approach: Descriptive Statistics on Tobacco-Dependent Patients. *Clin EEG Neurosci.* 2022 Jul;53(4):287-296. doi: 10.1177/15500594211062703. IF 2.046

Karch S, Krause D, Lehnert K, Konrad J, Haller D, Rauchmann BS, Maywald M, Engelbregt H, Adorjan K, Koller G, Reidler P, Karali T, Tschentscher N, Ertl-Wagner B, Pogarell O, Paolini M, Keeser D. Functional and clinical outcomes of fMRI-based neurofeedback training in patients with alcohol dependence: a pilot study. *Eur Arch Psychiatry Clin Neurosci.* 2022 Jun;272(4):557-569. doi: 10.1007/s00406-021-01336-x. IF 5.760

2021

Mallock N, Rabenstein A, Gernun S, Laux P, Hutzler C, Karch S, Koller G, Henkler-Stephani F, Parr MK, Pogarell O, Luch A, Rüther T. Nicotine delivery and relief of craving after consumption of European

JUUL e-cigarettes prior and after pod modification. *Sci Rep.* 2021 Jun 8;11(1):12078. doi: 10.1038/s41598-021-91593-6.

Adorjan K, Langgartner S, Maywald M, Karch S, Pogarell O. A cross-sectional survey of internet use among university students. *Eur Arch Psychiatry Clin Neurosci.* 2021 Aug;271(5):975-986. doi: 10.1007/s00406-020-01211-1.

2020

Giegling I, Hartmann AM, Genius J, Konte B, Maul S, Straube A, Eggert T, Mulert C, Leicht G, Karch S, Hegerl U, Pogarell O, Höller SM, Möller HJ, Graw J, Rujescu D. Polymorphisms in CRYBB2 encoding βB2-crystallin are associated with antisaccade performance and memory function. *Transl Psychiatry.* 2020; 10: 113. Published online 2020 Apr 21. doi: 10.1038/s41398-020-0791-0

Hasan A, Roeh A, Leucht S, Langguth B, Hansbauer M, Oviedo-Salcedo T, Kirchner SK, Papazova I, Löhrs L, Wagner E, Maurus I, Strube W, Rossner M, Wehr MC, Bauer I, Heres S, Leucht C, Kreuzer PM, Zimmermann S, Schneider-Axmann T, Görlitz T, Karch S, Egert-Schwender S, Schossow B, Rothe P, Falkai P. Add-on spironolactone as antagonist of the NRG1-ERBB4 signaling pathway for the treatment of schizophrenia: Study design and methodology of a multicenter randomized, placebo-controlled trial. *Contemp Clin Trials Commun.* 2020 Mar; 17: 100537. Published online 2020 Jan 28. doi: 10.1016/j.conc.2020.100537

2019

Krause D, Jobst A, Langemak SM, Keeser D, Chrobok AI, Langgartner S, Adorjan K, Gertzen M, Pogarell O, Karch S. Event-Related Potentials Are Associated With Unexpected Gain and Loss: Using a Gambling Paradigm. *Clin EEG Neurosci.* 2019 May;50(3):154-160. doi: 10.1177/1550059418814987.

Karch S*, Paolini M*, Gschwendtner S, Jeanty H, Reckenfelderbäumer A, Yaseen O, Maywald M, Fuchs C, Rauchmann BS, Chrobok A, Rabenstein A, Ertl-Wagner B, Pogarell O, Keeser D*, Rüther T*. Real-Time fMRI Neurofeedback in Patients With Tobacco Use Disorder During Smoking Cessation: Functional Differences and Implications of the First Training Session in Regard to Future Abstinence or Relapse. *Front Hum Neurosci.* 2019 Mar 4;13:65. doi: 10.3389/fnhum.2019.00065.

Karch S*, Paolini M*, Jeanty H, Reckenfelderbäumer A, Gschwendtner S, Maywald M, Rauchmann BS, Rabenstein A, Chrobok A, Gertzen M, Ertl-Wagner B, Pogarell O, Rüther T*, Keeser D*. Neurofeedback mittels funktioneller Magnetresonanztomographie in Echtzeit (rtfMRT) bei Patienten mit psychischen Erkrankungen: klinisches Anwendungspotenzial im Bereich der Emotionsregulation und des emotionalen Erlebens. *Psychotherapeut,* 64(3), 212-219; doi: 10.1007/s00278-019-0352-2.

2018

Buchheim A, Labek K, Taubner S, Kessler H, Pokorny D, Kächele H, Cierpka M, Roth G, Pogarell O, Karch S. Modulation of Gamma Band Activity and Late Positive Potential in Patients with Chronic Depression after Psychodynamic Psychotherapy. *Psychother Psychosom.* 2018;87(4):252-254. doi: 10.1159/000488090.

Rüther T, Schultz Y, Wirth C, Chrobok A, Rabenstein A, Keeser D, Ertl-Wagner B, Pogarell O, Karch S. Effect of smoking status on neuronal responses to graphic cigarette warning labels. *PLoS One.* 2018 Sep 20;13(9):e0201360. doi: 10.1371/journal.pone.0201360. eCollection 2018.

Neustädter ME, Adorjan K, Kistner N, Glaser M, Hummel I, von Saldern S, Palm U, Dehning S, Pogarell O, Karch S. [Successful treatment in the day clinic of the Clinic for Psychiatry and Psychotherapy of

LMU Munich. Experienced changes from the patients' perspective]. MMW Fortschr Med. 2018 Nov;160(Suppl 5):6-10. doi: 10.1007/s15006-018-1050-7.

Weinmann T, Vetter C, Karch S, Nowak D, Radon K. Shift work and cognitive impairment in later life – results of a cross-sectional pilot study testing the feasibility of a large-scale epidemiologic investigation. BMC Public Health. 2018 Nov 14;18(1):1256. doi: 10.1186/s12889-018-6171-5

2017

Adorjan K, Thoma C, Tchipeva E, Janjic C, Leidger A, Hoch E, Koller G, Falkai P, Pogarell O, Karch S. Ein wirksames Behandlungskonzept für Patienten mit Suchterkrankungen. MMW Fortschritte der Medizin 2017 159(Suppl.6): 1-5.

Karch S, Langgartner S, Wagner E, Pogarell O. Neurophysiologische Befund bei Patienten mit Abhängigkeitserkrankungen. Neurophysiol. Lab. 2017 39(3),129-140.

Konte B, Leicht G, Giegling I, Pogarell O, Karch S, Hartmann AM, Friedl M, Hegerl U, Rujescu D, Mulert C. A genome-wide association study of early gamma-band response in a schizophrenia case-control sample. World J Biol Psychiatry. 2017 Sep 19:1-8. doi: 10.1080/15622975.2017.1366054.

Sanader B, Keeser D, Paolini M, Karch S. Neurofeedback im therapeutischen Einsatz. Neurophysiol. Lab. 2017 39(3),110-115.

2016

Engelbregt HJ, Keeser D, van Eijk L, Suiker EM, Eichhorn D, Karch S, Deijen JB, Pogarell O. Short and long-term effects of sham-controlled prefrontal EEG-neurofeedback training in healthy subjects. Clinical Neurophysiology 2016 Apr;127(4):1931-7

Hasan A, Guse B, Cordes J, Wölwer W, Winterer G, Gaebel W, Langguth B, Landgrebe M, Eichhammer P, Frank E, Hajak G, Ohmann C, Verde PE, Rietschel M, Ahmed R, Honer WG, Malchow B, Karch S, Schneider-Axmann T, Falkai P, Wobrock T. Cognitive Effects of High-Frequency rTMS in Schizophrenia Patients With Predominant Negative Symptoms: Results From a Multicenter Randomized Sham-Controlled Trial. Schizophr Bull. 2016 May;42(3):608-18

Karch S, Loy F, Krause D, Schwarz S, Kiesewetter J, Segmiller F, Chrobok AI, Keeser D, Pogarell O. Increased Event-Related Potentials and Alpha-, Beta-, and Gamma-Activity Associated with Intentional Actions. Front. Front Psychol. 2016 Jan 22;7:7

Koerte IK, Mayinger M, Muehlmann M, Kaufmann D, Lin AP, Steffinger D, Fisch B, Rauchmann BS, Immler S, Karch S, Heinen FR, Ertl-Wagner B, Reiser M, Stern RA, Zafonte R, Shenton ME. Cortical thinning in former professional soccer players. Brain Imaging Behav. 2016 Sep;10(3):792-8.

Krause D, Folkerts M, Karch S, Keeser D, Chrobok AI, Zaudig M, Hegerl U, Juckel G, Pogarell O. Prediction of Treatment Outcome in Patients with Obsessive-Compulsive Disorder with Low-Resolution Brain Electromagnetic Tomography: A Prospective EEG Study. Front Psychol. 2016 Jan 22;6:1993.

Langgartner S, Strube W, Oviedo T, Hansbauer M, Karch S, Wirth S, Falkai P, Hasan A. Treatment-resistant Schizophrenia and Global Cortical Atrophy in a Patient with Turner Syndrome. Pharmacopsychiatry. 2016 Nov;49(6):262-263.

2015

Karch S, Pogarell O. Neurobiologie bei Zwangsstörung. Psychologie in Österreich 2015, 1; 7-16.

Karch S*, Keeser D*, Hümmer S, Paolini M, Kirsch V, Karali T, Kupka M, Rauchmann BS, Chrobok A, Blautzik J, Koller G, Ertl-Wagner B, Pogarell O. Modulation of Craving Related Brain Responses Using Real-Time fMRI in Patients with Alcohol Use Disorder. *PLoS One*. 2015 Jul 23;10(7):e0133034

Koerte I, Mayinger M, Muehlmann M, Kaufmann D, Lin A, Steffinger D, Fisch B, Rauchmann B, Immel S, Karch S, Heinen F, Ertl-Wagner B, Reiser M, Stern R, Zafonte R, Shenton M. Altered Neurochemistry in Former Professional Soccer Players without a History of Concussion. *J Neurotrauma*. 2015 Sep 1;32(17):1287-93.

Rominger A, Cumming P, Brendel M, Xiong G, Zach C, Karch S, Tatsch K, Bartenstein P, la Fougère C, Koch W, Pogarell O. Altered serotonin and dopamine transporter availabilities in brain of depressed patients upon treatment with escitalopram: A [123 I] β -CIT SPECT study. *Eur Neuropsychopharmacol*. 2015 Jun;25(6):873-81.

Wigand M, Kubicki M, Clemm von Hohenberg C, Leicht G, Karch S, Eckbo R, Pelavin PE, Hawley K, Rujescu D, Bouix S, Shenton ME, Mulert C. Auditory verbal hallucinations and the interhemispheric auditory pathway in chronic schizophrenia. *World J Biol Psychiatry*. 2015 Jan;16(1):31-44.

2014

Jobst, A., Dehning, S., Ruf, S., Notz, T., Buchheim, A., Henning-Fast, K., Meißner, D., Meyer, S., Bondy, B., Müller, N. & Zill, P. (2014). Oxytocin and vasopressin levels are decreased in the plasma of male schizophrenia patients. *Acta Neuropsychiatr*, 26(6), 347-355.

Karch S*, Völker JM*, Thalmeier T, Ertl M, Leicht G, Pogarell O, Mulert C. Deficits during voluntary selection in adult patients with ADHD: new insights from single-trial coupling of simultaneous EEG/fMRI. *Frontiers in psychiatry* April 2014; Volume 5; Article 41; published: 22 April 2014

O'Donoghue T, Morris DW, Fahey C, Da Costa A, Moore S, Cummings E, Leicht G, Karch S, Hoerold D, Tropea D, Foxe JJ, Gill M, Corvin A, Donohoe G. Effects of ZNF804A on auditory P300 response in schizophrenia. *Transl Psychiatry*. 2014 Jan 14;4:e345.

Schiepek G, Heinzel S, Karch S, Aas B, Strunk G. Chaos and self-organization in psychotherapy. *Chaos and Complexity Letters*, 2014, Volume 8, Number 2-3:231-257.

2013

Buchheim A, Roth G, Schiepek G, Pogarell O, Karch S. Neurobiology of Personality Disorders. *Swiss Archives of Neurology and Psychiatry* 2013; 164(4):115-22.

Clemm von Hohenberg C, Wigand MC, Kubicki M, Leicht G, Giegling I, Karch S, Hartmann AM, Konte B, Friedl M, Ballinger T, Eckbo R, Bouix S, Jäger L, Shenton ME, Rujescu D, Mulert C. CNTNAP2 polymorphisms and structural brain connectivity: A diffusion-tensor imaging study. *Journal of Psychiatric Research*. 2013 July 17 [Epub ahead of print]

Grossheinrich N, Reinl M, Pogarell O, Karch S, Mulert C, Brueckl M, Hennig-Fast K, Rau A, Epple M, Hornig A, Padberg F. Effects of Low Frequency Prefrontal Repetitive Transcranial Magnetic Stimulation on the N2 Amplitude in a GoNogo Task. *PLoS One*. 2013 Jun 27;8(6):e67136. Print 2013. Juen, F., Arnold, L., Meißner, D., Nolte, T. & Buchheim, A. (2013). Attachment disorganization in different clinical groups: What underpins unresolved attachment? *Psihologija*, 46(2), 127–141.

Leicht G, Karch S, Giegling I, Kirsch V, Möller HJ, Pogarell O, Hegerl U, Rujescu D, Mulert C. AS21-01 - Alterations of the early auditory evoked gamma-band response in patients with schizophrenia. *European Psychiatry* 27:1.

Leicht G, Mulert C, Eser D, Sämann P, Ertl M, Länger A, Karch S, Pogarell O, Meindl T, Czisch M, Rupprecht R. Benzodiazepines counteract rostral anterior cingulate cortex activation induced by CCK-4 in humans. *Biol Psychiatry* 2013; 73(4): 337-44.

Nowidi, K, Kunisch, R., Bouna-Pyrrou, P., Meissner, D., Hennig-Fast, K., Weindl, A., Förster, S., Neuhann, T. M., Falkai, P., Berger, M. & Musil, R. (2013). The White man's burden - a case study caught between bipolar affective disorder and Huntington's disease. *Fortschr Neurol Psychiatr.*, 81(6), 337-345.

Schiepek G, Tominschek I, Heinzel S, Aigner M, Dold M, Unger A, Lenz G, Windischberger C, Moser E, Plöderl M, Lutz J, Meindl T, Zaudig M, Pogarell, O, Karch S. Discontinuous Patterns of Brain Activation in the Psychotherapy Process of Obsessive Compulsive Disorder: Converging Results from Repeated Functional MRI and Daily Self-Reports. *PLoS One*. 2013 August;8(8):e71863. Print 2013.

2012

Juckel G*, Karch S*, Kawohl W, Kirsch V, Jäger L, Leicht G, Lutz L, Stammel A, Pogarell O, Ertl M, Reiser M, Hegerl U, Möller HJ, Mulert C. Age effects on the P300 potential and the corresponding fMRI BOLD-signal. *Neuroimage* 2012 May 1;60(4):2027-2034.

Karch S, Pogarell O, Mulert C. Functional Magnetic Resonance Imaging and treatment strategies in schizophrenia. *Current Pharmaceutical Biotechnology*. 2012;13(8):1622-9.

Karch S, Heinzel S, Pogarell O, Schiepek G. Neurobiologische Grundlagen psychotherapeutischer Verfahren: ein Überblick über methodische Anforderungen sowie Ergebnisse bei psychiatrischen Störungsbildern. *Psychotherapeut* 2012; 57:204-212.

Karch S, Segmiller S, Hantschk I, Cerovecki A, Opgen-Rhein M, Hock B, Dargel S, Leicht G, Hennig-Fast K, Riedel M, Pogarell O. Increased gamma oscillations during voluntary selection processes in adult patients with attention deficit/hyperactivity disorder. *Journal of Psychiatric Research* 2012; 46(11): 1515-1523.

Karch S, Keeser D, Pogarell O. Treatment effects in schizophrenia: evidence from neuroimaging. *Minerva Psichiatrica* 2012; 53:171-84.

Pogarell O, Koch W, Karch S, Dehning S, Müller N, Tatsch K, Poepperl G, Möller HJ. Dopaminergic neurotransmission in patients with schizophrenia in relation to positive and negative symptoms. *Pharmacopsychiatry*. 2012 May;45 Suppl 1:S36-41.

Schaaff N, Karch S, Segmiller F, Koch W, Reicherzer M, Mulert C, Hegerl U, Juckel G, Pogarell O. Loudness dependence of auditory evoked potentials in patients with borderline personality disorder - impact of psychopathology. *Psychiat Res* 2012; 199(3): 181-7.

Schiepek G, Karch S, Tominschek I, Pogarell O. Neurobiologische Korrelate der Psychotherapie von Zwangsstörungen. *Psychotherapeut* 2012; 57:234-240.

2011

Ilankovic LM, Allen PP, Engel R, Kambeitz J, Riedel M, Müller N, Hennig-Fast K. Attentional modulation of external speech attribution in patients with hallucinations and delusions. *Neuropsychologia* 2011, 49(5): 805-12.

Karch S, Pogarell O. Neurobiologie der Zwangsstörung. *Nervenarzt* 2011. 82:299-307

Keeser D, Padberg F, Reisinger E, Pogarell O, Kirsch V, Palm U, Karch S, Möller HJ, Nitsche MA, Mulert FC. Prefrontal direct current stimulation modulates resting EEG and event-related potentials in healthy subjects: A standardized low resolution tomography (sLORETA) study. *Neuroimage*. 2011 Mar 15;55(2):644-57.

Leicht G, Karch S, Karamatskos E, Giegling I, Möller HJ, Hegerl U, Pogarell O, Rujescu D, Mulert C. Alteration of the early auditory evoked gamma-band response in first degree relatives of patients with schizophrenia: Hints to a new intermediate phenotype. *J Psychiatr Res*. 2011; 45(5):699-705.

Mittermeier V, Leicht G, Karch S, Hegerl U, Möller HJ, Pogarell O, Mulert C. Attention to emotion: auditory-evoked potentials in an emotional choice reaction task and personality traits as assessed by the NEO FFI. *Eur Arch Psychiatry Clin Neurosci*. 2011 Mar;261(2):111-20.

Palm U, Forsthoff A, de la Fontaine L, Rupprecht T, Karch S, Meisenzahl EM, Pogarell O. Electroconvulsive therapy and corpus callosum aplasia: a case report. *J ECT*. 2011 Mar;27(1):e17-20. Pogarell O, Padberg F, Karch S, Segmiller F, Juckel G, Mulert C, Hegerl U, Tatsch K, Koch W. Dopaminergic mechanisms of target detection - P300 event related potential and striatal dopamine. *Psychiatry Res* 2011; 194(3): 212-8.

2010

Ertl M, Kirsch V, Leicht G, Karch S, Olbrich S, Reiser M, Hegerl U, Pogarell O, Mulert C. Avoiding the Ballistocardiogram (BCG) Artifact of EEG data acquired simultaneously with fMRI by pulse triggered presentation of stimuli. *J Neurosci Methods*. 2010 Feb 15;186(2):231-41.

Erzberger CS, Engel RR (2010) Zur Äquivalenz der Normen des Wechsler-Intelligenztests für Erwachsene (WIE) mit denen des Hamburg-Wechsler-Intelligenztests für Erwachsene - Revision (HAWIE-R). *Zeitschrift für Neuropsychologie*, 21(1), 25-37.

Frank G, Hennig-Fast K, Klünemann HH, Schmitz G, Greenlee MW. (2010) Differential Impact of ApoE ε4 on Cortical Activation During Famous Face Recognition in Cognitively Intact Individuals and Patients With Amnestic Mild Cognitive Impairment. *Alzheimer Dis Assoc Disord*. 2010 Dec 28. [Epub ahead of print]

Karch S, Feuerecker R, Leicht G, Meindl T, Hantschk I, Kirsch V, Ertl M, Lutz J, Pogarell O, Mulert C. Separating distinct aspects of the voluntary selection between response alternatives: N2- and P3-related BOLD responses. *Neuroimage*. 2010 May 15; 51(1):356-364.

Karch S, Thalmeier T, Lutz J, Cerovecki A, Opgen-Rhein M, Hock B, Leicht G, Hennig-Fast C, Meindl T, Riedel M, Mulert N, Pogarell O (2010) Neural correlates (ERP/fMRI) of voluntary selection in adult ADHD patients. *Eur Arch Psychiatry Clin Neurosci* 260: 427-440.

Leicht G, Kirsch V, Giegling I, Karch S, Hantschk I, Möller HJ, Pogarell O, Hegerl U, Rujescu D, Mulert C. Reduced Early Auditory Evoked Gamma-Band Response in Patients with Schizophrenia. *Biol Psychiatry*. 2010 Feb 1;67(3):224-31.

Mulert, C, Leicht G, Hepp P, Kirsch V, Karch S, Pogarell O, Reiser M, Hegerl U, Jäger L, Möller HJ, McCarley R. Single-trial coupling of the gamma-band response and the corresponding BOLD signal. *Neuroimage*. 2010 Feb 1;49(3):2238-2247.

Riedel M, Schennach-Wolff R, Musil R, Dehning S, Cerovecki A, Opgen-Rhein M, Matz J, Seemüller F, Obermeier M, Engel RR, Müller N, Möller HJ, Spellmann I (2010) Neurocognition and its influencing factors in the treatment of schizophrenia-effects of aripiprazole, olanzapine, quetiapine and risperidone. *Hum Psychopharmacol* 25: 116-125.

Riedel M, Spellmann I, Schennach-Wolff R, Musil R, Dehning S, Cerovecki A, Opgen-Rhein M, Matz J, Seemüller F, Obermeier M, Severus E, Engel RR, Müller N, Möller H-J (2010) Effect of aripiprazole on cognition in the treatment of patients with schizophrenia. *Pharmacopsychiatry* 43: 50-57.

Schennach-Wolff R, Obermeier M, Seemüller F, Jäger M, Schmauss M, Laux G, Pfeiffer H, Naber D, Schmidt LG, Gaebel W, Klosterkötter J, Heuser I, Maier W, Lemke MR, Ruther E, Klingberg S, Gastpar M, Engel RR, Möller H-J, Riedel M (2010) Does clinical judgment of baseline severity and changes in psychopathology depend on the patient population? Results of a CGI and PANSS linking analysis in a naturalistic study. *J Clin Psychopharmacol* 30: 726-731.

Seemüller F, Riedel M, Dargel S, Djaja N, Schennach-Wolff R, Dittmann S, Möller HJ, Severus E. (2010) Bipolare Depression. Spektrum klinischer Erscheinungsbilder und Abgrenzbarkeit von der unipolaren Depression. *Nervenarzt* 81(5):531-8.

Soyka M, Zingg C, Koller G, Hennig-Fast K (2010) Cognitive function in short- and long-term substitution treatment: Are there differences? *World J Biol Psychiatry* 11: 400-408.

Stübner S, Grohmann R, von Stralendorff, I, Rüther E, Möller H-J, Müller-Oerlinghausen B, Engel RR, Horvath A, Greil W (2010) Suicidality as rare adverse event of antidepressant medication: report from the AMSP multicenter drug safety surveillance project. *J Clin Psychiatry* 71: 1293-1307.

Yatham LN, Torres IJ, Malhi GS, Frangou S, Glahn DC, Bearden CE, Burdick KE, Martínez-Arán A, Dittmann S, Goldberg JF, Ozerdem A, Aydemir O, Chengappa KN. (2010) The International Society for Bipolar Disorders-Battery for Assessment of Neurocognition (ISBD-BANC). *Bipolar Disord.* 12(4): 351-63.

2009

Blume A, Mergl R, Niedermeier N, Kunz J, Karch S, Havers I, Hegerl U. (2009) Evaluation eines Online-Diskussionsforums für an Depression Erkrankte und Angehörige – eine Untersuchung zu Motiven und Auswirkungen der Teilnahme. *Neuropsychiatrie*, 23(1):42-51.

Born C, Seitz NN, Grunze H, Vieta E, Dittmann S, Seemüller F, Amann B. (2009) Preliminary results of a fine-grain analysis of mood swings and treatment modalities of bipolar I and II patients using the daily prospective life-chart-methodology. *Acta Psychiatr Scand.*, 120(6):474-480.

Born C, Bernhard B, Dittmann S, Seemüller F, Grunze H. (2009) Lamotrigine in bipolar disorder: results of a mirror-image evaluation using the NIMH Lifechart-Methodology. *J Affect Disord.*; 115(1-2):241-245.

Eser D, Leicht G, Lutz J, Wenninger S, Kirsch V, Schüle C, Karch S, Baghai T, Pogarell O, Born C, Rupprecht R, Mulert C. (2009) Functional neuroanatomy of CCK-4 induced panic attacks in healthy volunteers. *Hum Brain Mapp*, 30(2):511-522.

Eser D, Leicht G, Baghai T, Pogarell O, Schüle C, Karch S, Nothdurfter C, Rupprecht R, Mulert C. (2009) Impact of loudness dependency of auditory evoked potentials on the panic response to CCK-4. *J Psychiatr Res*, 43(4):393-400.

Furukawa, T. A., Shear, M. K., Barlow, D. H., Gorman, J. M., Woods, S. W., Money, R., Etschel, E., Engel, R. R., & Leucht, S. (2009). Evidence-based guidelines for interpretation of the Panic Disorder Severity Scale. *Depression and Anxiety*, 26: 922-929.

Grossheinrich N, Rau A, Pogarell O, Fast K, Reinl M, Karch S, Dieler A, Engel R, Mulert C, Sterr A, Padberg F. (2009). Theta burst stimulation of the prefrontal cortex: safety and impact on cognition, mood and resting EEG. *Biol Psychiatry*, 65(9):778-784.

Hennig-Fast, K., Werner, N. S., Lermer, R., Latscha, K., Meister, F., Reiser, M., Engel, R. R., & Meindl, T. (2009). After facing traumatic stress: Brain activation, cognition and stress coping in policemen. *Journal of Psychiatric Research*, 43, 1146-1155.

Karch S, Mulert C, Thalmeier T, Lutz J, Leicht G, Meindl T, Möller HJ, Jäger L, Pogarell O. (2009). The free choice whether or not to respond after stimulus presentation. *Hum Brain Mapp*, 30(9):2971-2985.

Karch S, Leicht G, Giegling I, Lutz J, Kunz J, Buselmeier M, Hey P, Spörl A, Jäger L, Meindl T, Pogarell O, Möller HJ, Hegerl U, Rujescu D, Mulert C. (2009). Inefficient neural activity in patients with schizophrenia and nonpsychotic relatives of schizophrenic patients: Evidence from a working memory task. *J Psychiatr Res*, 43(15):1185-1194.

Lange-Asschenfeldt, C., Grohmann, R., Lange-Asschenfeldt, B., Engel, R. R., Ruether, E., & Cordes, J. (2009). Cutaneous adverse reactions to psychotropic drugs: Data from a multicenter surveillance program. *Journal of Clinical Psychiatry*, 70, 1258-1265.

Leucht, S., Arbter, D., Engel, R. R., Kissling, W., & Davis, J. M. (2009). How effective are second-generation antipsychotic drugs? A meta-analysis of placebo-controlled trials. *Molecular Psychiatry*, 14, 429-447.

Leucht, S., Corves, C., Arbter, D., Engel, R. R., Li, C., & Davis, J. M. (2009). Second-generation versus first-generation antipsychotic drugs for schizophrenia: a meta-analysis. *Lancet*, 373, 31-41.

Leucht, S., Davis, J. M., Engel, R. R., Kissling, W., & Kane, J. M. (2009). Definitions of response and remission in schizophrenia: Recommendations for their use and their presentation. *Acta Psychiatrica Scandinavica*, 119, 7-14 (Suppl. 438).

Olbrich S, Mulert C, Karch S, Trenner M, Leicht G, Pogarell O, Hegerl U (2009). EEG-vigilance and BOLD effect during simultaneous EEG/fMRI measurement. *Neuroimage*, 45(2):319-332.

Schiepek G, Tominschek I, Karch S, Lutz J, Mulert C, Meindl T, Pogarell O. (2009). A controlled single case study with repeated fMRI measurements during the treatment of a patient with obsessive-compulsive disorder: Testing the nonlinear dynamics approach to psychotherapy. *World J Biol Psychiatry*, 10(4 Pt 2):658-668.

Werner, N. S., Meindl, T., Materne, J., Engel, R. R., Huber, D., Riedel, M., Reiser, M., & Hennig-Fast, K. (2009). Functional MRI study of memory-related brain regions in patients with depressive disorder. *Journal of Affective Disorders*, 119, 124-131.

2008

Amrhein, C., Hengmuth, S., Maragkos, M., & Hennig-Fast, K. (2008). Neuropsychological characteristics of highly dissociative healthy individuals. *J Trauma Dissociation*, 9, 525-542.

Bröder, A., Herwig, A., Teipel, S., & Fast, K. (2008). Different storage and retrieval deficits in normal aging and mild cognitive impairment: A multinomial modeling analysis. *Psychology and Aging*, 23, 353-365.

Dieler, A.C., Sämann, P.G., Leicht, G., Eser, D., Kirsch, V., Baghai, T.C., Karch, S., Schüle, C., Pogarell, O., Czisch, M., Rupprecht, R., Mulert, C. (2008). Independent component analysis applied to

pharmacological magnetic resonance imaging (phMRI): new insights into the functional networks underlying panic attacks as induced by CCK-4. *Curr Pharm Des*, 14(33), 3492-3507.

Dittmann, S., Hennig-Fast, K., Gerber, S., Seemüller, F., Riedel, M., Severus, W., Langosch, J., Engel, R. R., Möller, H. J. & Grunze, H. C. (2008). Cognitive functioning in euthymic bipolar I and bipolar II patients. *Bipolar Disorders*, 10, 877-887.

Dittmann, S., Seemüller, F., Grunze, H. C., Schwarz, M. J., Zach, J., Fast, K., Born, C., Dargel, S., Engel, R. R., Bernhard, B., Möller, H. J., Riedel, M. & Severus, W. E. (2008). The impact of homocysteine levels on cognition in euthymic bipolar patients: A cross-sectional study. *Journal of Clinical Psychiatry*, 69, 899-906.

Domes, G., Czieschnek, D., Weidler, F., Berger, C., Fast, K., & Herpertz, S. C. (2008). Recognition of facial affect in borderline personality disorder. *Journal of Personality Disorders*, 22, 135-147.

El Sharkawy, J., Groth, K., Vetter, C., Beraldi, A., & Fast, K. (2008). False memories of emotional and neutral words. *Behavioural Neurology*, 19, 7-11.

Hennig-Fast, K. (2008). Neuropsychologische Diagnostik bei ADHS im Erwachsenenalter, Psychotherapie in der Psychiatrie, Psychotherapeutischen Medizin und Klinischen Psychologie, 2008(2)

Hennig-Fast, K., Meister, F., Frodl, T., Beraldi, A., Padberg, F., Engel, R. R., Reiser, M., Möller, H. J. & Meindl, T. (2008). A case of persistent retrograde amnesia following a dissociative fugue: Neuropsychological and neurofunctional underpinnings of loss of autobiographical memory and self-awareness. *Neuropsychologia*, 46, 2993-3005.

Karch, S., Jager, L., Karamatskos, E., Graz, C., Stammel, A., Flatz, W., Lutz, J., Holtschmidt-Täschner, B., Genius, J., Leicht, G., Pogarell, O., Born, C., Möller, H.J., Hegerl, U., Reiser, M., Soyka, M., Mulert, C. (2008). Influence of trait anxiety on inhibitory control in alcohol-dependent patients: simultaneous acquisition of ERPs and BOLD responses. *Journal of Psychiatric Research*, 42(9), 734-745.

Levine, S. Z., Rabinowitz, J., Engel, R., Etschel, E., & Leucht, S. (2008). Extrapolation between measures of symptom severity and change: An examination of the PANSS and CGI. *Schizophrenia Research*, 98, 318-322.

Mulert, C., Seifert, C., Leicht, G., Kirsch, V., Ertl, M., Karch, S., Moosmann, M., Lutz, J., Möller, H.J., Hegerl, U., Pogarell, O., Jäger, L. (2008). Single-trial coupling of EEG and fMRI reveals the involvement of early anterior cingulate cortex activation in effortful decision making. *Neuroimage*, 42(1), 158-68.

Engel, R.R. & Fast, K. (2008) Klinisch-psychologische und neuropsychologische Testdiagnostik. In: H.-J. Möller, G. Laux & H.-P. Kapfhammer (Hrsg.) *Psychiatrie und Psychotherapie*. Dritte Auflage. Band I. Allgemeine Psychiatrie. Heidelberg: Springer, S. 483-509.

Hegerl, U., Karch, S., Mulert, C. (2008). Neurophysiologische Grundlagen psychischer Erkrankungen. In: Möller HJ, Laux G, Kapfhammer H-P (Hrsg.). *Psychiatrie und Psychotherapie*. Dritte Auflage. Band 1. Allgemeine Psychiatrie. Springer, Heidelberg, S. 209-225.

2007

Pedrosa Gil, F., Nickel, M., Ridout, N., Schwarz, M.J., Schöchlin C., Schmidmaier R. (2007). Alexithymia and Interleukin Variations in Somatoform Disorder. *Neuroimmunomodulation*, 14(5), 235-242.

- Bäuml, J., Pitschel-Walz, G., Volz, A., Engel, R. R., & Kissling, W. (2007). Psychoeducation in schizophrenia: 7-year follow-up concerning rehospitalization and days in hospital in the Munich Psychosis Information Project Study. *Journal of Clinical Psychiatry*, 68, 854-861.
- Dittmann, S., Seemüller, F., Schwarz, M. J., Kleindienst, N., Stampfer, R., Zach, J. et al. (2007). Association of cognitive deficits with elevated homocysteine levels in euthymic bipolar patients and its impact on psychosocial functioning: preliminary results. *Bipolar Disorder*, 9, 63-70.
- Domes, G., Winter, B., Schnell, K., Vohs, K., Fast, K., Herpertz, S.C. (2007). Inhibitory Functioning in Borderline Personality Disorder and the Influence of Emotions. *Psychological Medicine*, 36 (8), 1163-1172.
- Eser, D., Schüle, C., Baghai, T., Floesser, A., Krebs-Brown, A., Enunwa, M. et al. (2007). Evaluation of the CCK-4 model as a challenge paradigm in a population of healthy volunteers within a proof-of-concept study. *Psychopharmacology (Berlin)*, 192, 479-487.
- Großheinrich, N., Fast, K., & Padberg, F. (2007). rTMS in der Emotionsforschung. In Siebner H, Ziemann U (Eds.) *Das TMS Buch - Transkranielle Magnetstimulation*, 487- 496. Springer Verlag, Heidelberg.
- Groves, J. A. & Engel, R. R. (2007). The German Adaptation and Standardization of the Personality Assessment Inventory (PAI). *Journal of Personality Assessment*, 88, 49-56.
- Lampe, K., Konrad, K., Kroener, S., Fast, K., Kunert, H.J., & Herpertz, S.C. (2007). Neuropsychological and behavioural disinhibition in adult ADHD compared to borderline personality disorder. *Psychological Medicine*, 37, 1717-1729.
- Leucht, S., Engel, R. R., Bäuml, J., & Davis, J. M. (2007). Is the superior efficacy of new generation antipsychotics an artifact of LOCF? *Schizophrenia Bulletin*, 33, 183-191.
- Leucht, S., Davis, J. M., Engel, R. R., Kane, J. M., & Wagenpfeil, S. (2007). Defining 'response' in antipsychotic drug trials: recommendations for the use of scale-derived cutoffs. *Neuropsychopharmacology*, 32, 1903-1910.
- Riedel, M., Spellmann, I., Strassnig, M., Douhet, A., Dehning, S., Opgen-Rhein, M. et al. (2007). Effects of risperidone and quetiapine on cognition in patients with schizophrenia and predominantly negative symptoms. *European Archives of Psychiatry and Clinical Neuroscience*, 257, 360-370.
- Fast, K. & Engel, R. R. (2007). *Halstead Category Test - Deutsche Version*. Göttingen: Hogrefe 2006
- Leucht, S., Kane, J. M., Etschel, E., Kissling, W., Hamann, J., & Engel, R. R. (2006). Linking the PANSS, BPRS, and CGI: Clinical implications. *Neuropsychopharmacology*, 31, 2318-2325.
- Leucht, S. & Engel, R. R. (2006). The relative sensitivity of the clinical global impressions scale and the brief psychiatric rating scale in antipsychotic drug trials. *Neuropsychopharmacology*, 31, 406-412.
- Pitschel-Walz, G., Bäuml, J., Bender, W., Engel, R. R., Wagner, M., & Kissling, W. (2006). Psychoeducation and compliance in the treatment of schizophrenia: results of the Munich Psychosis Information Project Study. *Journal of Clinical Psychiatry*, 67, 443-452.
- Teipel, S. J., Willoch, F., Ishii, K., Bürger, K., Drzezga, A., Engel, R. et al. (2006). Resting state glucose utilization and the CERAD cognitive battery in patients with Alzheimer's disease. *Neurobiology of Aging*, 27, 681-690.

Teipel, S. J., Willoch, F., Ishii, K., Burger, K., Drzezga, A., Engel, R., Bartenstein, P., Moller, H. J., Schwaiger, M., & Hampel, H. (2006). Resting state glucose utilization and the CERAD cognitive battery in patients with Alzheimer's disease. *Neurobiology and Aging*. 27(5):681-90.

2005

Kleindienst, N., Engel, R., & Greil, W. (2005). Which clinical factors predict response to prophylactic lithium? A systematic review for bipolar disorders. *Bipolar Disord*, 7, 404-417.

Kleindienst, N., Engel, R. R., & Greil, W. (2005). Psychosocial and demographic factors associated with response to prophylactic lithium: a systematic review for bipolar disorders. *Psychol.Med.*, 35, 1685-1694.

Koller, G., Engel, R. R., Preuss, U. W., Karakesisoglou, A., Zill, P., Bondy, B., & Soyka, M. (2005). Tryptophan hydroxylase gene 1 polymorphisms are not associated with suicide attempts in alcohol-dependent individuals. *Addict.Biol.*, 10, 269-273.

Leucht, S., Kane, J. M., Kissling, W., Hamann, J., Etschel, E., & Engel, R. R. (2005). What does the PANSS mean? *Schizophr.Res.*, 79, 231-238.

Leucht, S., Kane, J. M., Kissling, W., Hamann, J., Etschel, E., & Engel, R. (2005). Clinical implications of Brief Psychiatric Rating Scale scores. *Br.J Psychiatry*, 187, 366-371.

Muller, N., Riedel, M., Schwarz, M. J., & Engel, R. R. (2005). Clinical effects of COX-2 inhibitors on cognition in schizophrenia. *Eur.Arch Psychiatry Clin Neurosci.*, 255, 149-151.