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Leitung

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Ausbildung / Werdegang

- 1996-2001: Studium der Psychologie (Heinrich-Heine-Universität Düsseldorf)
- 2002-2008: Wissenschaftliche Mitarbeiterin in der Arbeitsgruppe „Psychophysiologie und Funktionelle Bildgebung“ (Klinik für Psychiatrie, Psychosomatik und Psychotherapie, Universitätsklinikum Würzburg)
- 2008: Promotion zum Dr. phil. (Thema der Dissertation: „Hirnelektrische Hypofrontalität bei schizophrenen Patienten und ihre Bedeutung für die Auswahl der neuroleptischen Medikation“)
- 2008-2010: Stellvertretende Leiterin der Arbeitsgruppe „Psychophysiologie und Funktionelle Bildgebung“ (Klinik für Psychiatrie, Psychosomatik und Psychotherapie, Universitätsklinikum Würzburg)
- 09-10/2011: Visiting Scientist an der Università degli Studi di Padova, Italien
- seit 06/2010: Wissenschaftliche Leiterin der Arbeitsgruppe „Psychophysiologie und Optische Bildgebung“ (Klinik für Psychiatrie und Psychotherapie, Universitätsklinikum Tübingen)
- seit 06/2013: Leiterin der Nachwuchsgruppe „Frontalhirnfunktionen bei adultem ADHS – Theoretische Differenzierung, neurophysiologische Grundlagen und innovative Behandlungsverfahren“

Forschungsinteressen

- Neurophysiologie und Funktion des Präfrontalcortex beim Menschen
- Exekutive Funktionen (u.a. Fehlerverarbeitung / Action monitoring, Inhibition, Arbeitsgedächtnis, Konfliktverarbeitung)
- Neurobiologische Mechanismen psychischer Störungen
- (Adulte) Aufmerksamkeitsdefizit-/Hyperaktivitätsstörung (ADHS)
- Schizophrene Erkrankungen, Hypofrontalität
- Genomische Bildgebung („Genomic Imaging“ / „Imaging Genetics“)
- Nahinfrarot-Spektroskopie (NIRS)
- Ereigniskorrelierte Potentiale (EEG): z.B. Error-related negativity (ERN), NoGo-Anteriorisierung (NGA), P50
- Nicht-invasive Neurostimulationsverfahren, z.B. TMS, tDCS
- Neurofeedback

Funding

- Transregio SFB TRR 58: „Fear, Anxiety, Anxiety Disorders“, Teilprojekt C4 (Förderzeitraum: 2008-2012)
- Centre for Integrative Neuroscience, CIN (Pool Projekt Nr. 2010-11; Förderzeitraum: 2011-2013)
- IZKF Tübingen – Fortüne Programm (Fortüne-Antrag Nr. 2013-0.0; Förderzeitraum: 2011-2013)
- Graduate School GSC 1028: „Learning, Educational Achievement, and Life Course Development“ (LEAD) (Exzellenz-Initiative – Zweite Programmphase; Förderzeitraum: 2012-2017)
- DFG (FA 361/21-1) (Förderzeitraum: 2013-2016)
- DFG (CR 110/8-1) (Förderzeitraum: 2013-2015)
- DFG (EH 388/2-1) (Förderzeitraum 2016-2019)
- IZKF Nachwuchsgruppe (2115-0-0; Förderzeitraum: 2013-2016)
- Deutsche Krebshilfe (Bearb.-Nr.: 70111871) (Förderzeitraum: 2017-2020)
- Milton Erickson Gesellschaft für Klinische Hypnose e.V. (M.E.G) (Förderzeitraum: 2015-2017)

Mitgliedschaften, Förderprogramme & Funktionen

- Sonderforschungsbereich / Transregio SFB TRR 58: „Fear, Anxiety, Anxiety Disorders“ (Mitglied bzw. assoziiertes Mitglied seit 7/2008; Gleichstellungsbeauftragte 2008-2010)
- „Mentoring med“ Programm der Julius-Maximilians-Universität Würzburg und des Universitätsklinikums Würzburg (10/2008 – 4/2010)
- Graduiertenschule LEAD (GSC 1028): Principal Investigator, Gleichstellungsbeauftragte, Mitglied der Planungsgruppe bzw. des Lenkungsausschusses (seit 2012)

Gutachtertätigkeit für wissenschaftliche Zeitschriften

a) für Organisationen

- German Research Foundation (DFG)
- Deutscher Akademischer Austauschdienst (DAAD)
- Swiss National Science Foundation
- University of Padova, Italy (Evaluation of intramural research projects)
- Oesterreichische Nationalbank Jubiläumsfonds

b) für wissenschaftliche Zeitschriften

- ADHD Attention Deficit and Hyperactivity Disorders
- American Journal of Medical Genetics B: Neuropsychiatric Genetics
- Behavior Research Methods
- Brain
- Brain and Language
- Brain Research
- Cerebral Cortex
- Children

- Cognitive and Behavioral Neurology
- Cortex
- Early Human Development
- European Neuropsychopharmacology
- Frontiers in Human Neuroscience
- Human Brain Mapping
- International Journal of Brain Science
- International Journal of Environmental Research and Public Health
- Journal of Autism and Developmental Disorders
- Journal of Cognitive Psychology
- Journal of Neural Transmission
- Journal of Neurolinguistics
- Journal of Neuroscience Methods
- Journal of Psychiatric Research
- Journal of Psychophysiology
- Journal of Visualized Experiments
- Lernen und Lernstörungen
- Medical Case Studies
- Multimodal Technologies and Interaction
- Neurobiology of Aging
- Neurobiology of Learning and Memory
- Neuropsychologia
- Neuroimage
- Neuroimage: Clinical
- Neuroscience Behavioral Reviews
- Neuroscience Research
- Neuroscience Letters
- Progress in Neuro-Psychopharmacology & Biological Psychiatry
- Physiology & Behavior
- PLoS ONE
- Psychiatry and Clinical Neurosciences
- Psychiatry Research
- Psychiatry Research: NeuroImaging
- Psychopharmacology
- Scientific Reports
- Social Cognitive and Affective Neuroscience
- The International Journal of Neuropsychopharmacology

Publikationen

- Ziegler, G.C., Röser, C., Renner, T., Hahn, T., **Ehlis, A.-C.**, Weber, H., Dempfle, A., Walitza, S., Jacob, C., Romanos, M., Fallgatter, A. J., Reif, A. & Lesch, K.-P. (in press). KCNJ6 variants modulate reward-related brain processes and impact executive functions in attention-deficit/hyperactivity disorder. *American Journal of Medical Genetics Part B Neuropsychiatric Genetics*.
- Kutscheidt, K., Dresler, T., Hudak, J., Barth, B., Blume, F., Ethofer, T., Fallgatter, A. J. & **Ehlis, A.-C.** (in press). Interoceptive awareness in patients with attention-deficit/hyperactivity disorder (ADHD). *ADHD Attention Deficit and Hyperactivity Disorders*.
- Kimmig, A.-C. S., Dresler, T., Hudak, J., Haeussinger, F. B., Wildgruber, D., Fallgatter, A. J., **Ehlis, A.-C.** & Kreifelts, B. L. (in press). Feasibility of NIRS-based neurofeedback training in social anxiety disorder - behavioral and neural correlates. *Journal of Neural Transmission*.

- Maier, M. J., Haeussinger, F. B., Hautzinger, M., Fallgatter, A. J. & **Ehlis, A.-C.** (in press). Excessive Bodybuilding as pathology? A first neurophysiological classification. *World Journal of Biological Psychiatry*.
- Hilbert, B. & **Ehlis, A.-C.** (2019). Neurowissenschaftlich fundierte Psychotherapie, *Psychotherapeut*, 64(3), 64(3), 177-179.
- Barth, B. & **Ehlis, A.-C.** (2019). Neurofeedback bei adulter Aufmerksamkeitsdefizit-/Hyperaktivitätsstörung. Stand der Forschung und Implikationen für die Anwendung. *Psychotherapeut*, 64(3), 194-201.
- Storchak, H., Hudak, J., Fallgatter, A. J. & **Ehlis, A.-C.** (2019). Entwicklung eines Neurofeedback-Protokolls zur Reduktion verbal akustischer Halluzinationen. *Psychotherapeut*, 64(3), 202-211.
- Soltanlou, M., Artemenko, C., **Dresler, T.**, Fallgatter, A. J., Nuerk, H.-C.* & Ehlis, A.-C.* (2019). Oscillatory EEG changes during arithmetic learning in children. *Developmental Neuropsychology*, 44(3), 325-338.
- Rohe, T., **Ehlis, A.-C.** & Noppeney, U. (2019). The neural dynamics of hierarchical Bayesian inference in multisensory perception. *Nature Communications*, 10(1), 1907.
- Blume, F., Göllner, R., Möller, K., Dresler, T., **Ehlis, A.-C.** & Gawrilow, C. (2019). Do students learn better when seated close to the teacher? A virtual reality classroom study considering individual levels of inattention and hyperactivity-impulsivity. *Learning & Instruction*, 61, 138-147.
- Storchak, H., Hudak, J., Haeussinger, F. B., Rosenbaum, D., Fallgatter, A. J. & **Ehlis, A.-C.** (2019). Reducing auditory verbal hallucinations by means of fNIRS neurofeedback – A case study with a paranoid schizophrenic patient. *Schizophrenia Research*, 204, 401-403.
- Soltanlou, M., Artemenko, C., Dresler, T., Fallgatter, A. J., **Ehlis, A.-C.*** & Nuerk, H. C.* (2019). Math anxiety in combination with low visuospatial memory impairs math learning in children. *Frontiers in Psychology* 10, 98.
- Goldbeck, F., Hapt, A., Rosenbaum, D., Rohe, T., Fallgatter, A. J., Hautzinger, M. & **Ehlis, A.-C.** (2019). The Positive Brain – Resting State Functional Connectivity in Highly Vital and Flourishing Individuals. *Frontiers in Human Neuroscience*, 12, 540.
- Rosenbaum, D., Blum, L., Schweizer, P., Fallgatter, A. J., Herrmann, M. J., **Ehlis, A.-C.** & Metzger, F. G. (2018). A comparison of speed- vs. complexity-effects on the hemodynamic response of the Trail Making Test in block-designs, *Neurophotonics*, 5(4), 45007.
- Barth, B., Mayer-Carius, K., Strehl, U., Kelava, A., Haeussinger, F. B., Fallgatter, A. J. & **Ehlis, A.-C.** (2018). Identification of neurophysiological biotypes in attention-deficit/hyperactivity disorder. *Psychiatry and Clinical Neurosciences*, 27, 836–848.
- Rosenbaum, D., Hilsendegen, P., Thomas, M., Haeussinger, F. G., Nuerk, H.-C., Fallgatter, A. J., Nieratschker, V., **Ehlis, A.-C.** & F. B., Metzger (2018). Disrupted prefrontal functional connectivity during post-stress adaption in high ruminators. *Scientific Reports*, 8(1), 15588.
- Ehlis, A.-C.**, Barth, B., Hudak, J., Storchak, H., Weber, L., Kimmig, A.-C. S., Kreifelts, B., Dresler, T. & Fallgatter, A. J. (2018). Near-infrared spectroscopy (NIRS) as a new tool for neurofeedback trainings – Applications in psychiatry and methodological considerations. *Japanese Psychological Research*, 60(4), 225-241.
- Maier, M. J., Rosenbaum, D., Haeussinger, F. B., Brüne, M., Enzi, B., Plewnia, C., Fallgatter, A. J. & **Ehlis, A.-C.** (2018). Forgiveness and cognitive control – Provoking revenge via theta-burst-stimulation of the DLPFC. *Neuroimage*, 183, 769-775.
- Hudak, J., Rosenbaum, D., Barth, B., Fallgatter, A. J. & **Ehlis, A.-C.** (2018). Functionally disconnected: a look at how study design influences neurofeedback data and mechanisms in attention-deficit/hyperactivity disorder. *PLoS One*, 13(8), e0200931.
- Ehlis, A.-C.**, Deppermann, S. & Fallgatter, A. J. (2018). Performance monitoring and post-error adjustments in adults with attention deficit hyperactivity disorder (ADHD) – An EEG analysis. *Journal of Psychiatry and Neuroscience*, 43(5), 170118.
- Rosenbaum, D., Maier, M. J., Hudak, J., Wells, A., Metzger, F. G., Fallgatter, A. J. & **Ehlis, A.-C.** (2018). Neurophysiological Correlates of the Attention Training Technique: A Component study. *Neuroimage: Clinical*, 19, 1018-1024.

- Artemenko, C., Soltanlou, M., Dresler, T., **Ehlis, A.-C.*** & Nuerk, H.-C.* (2018). The neural correlates of arithmetic difficulty depend on mathematical ability: Evidence from combined fNIRS and ERP. *Brain Structure and Functions*, 223(6), 2561-2574.
- Artemenko, C.*, Coldea, A.*, Soltanlou, M., Dresler, T., Nuerk, H.-C. & **Ehlis, A.-C.** (2018). The neural circuits of number and letter copying – An fNIRS study. *Experimental Brain Research*, 236(4), 1129-1138.
- Rosenbaum, D., Thomas, M., Hilsendegen, P., Metzger, F. G., Haeussinger, F. B., Nuerk, H.-C., Fallgatter, A. J., Nieratschker, V. & **Ehlis, A.-C.** (2018). Stress-related dysfunction of the right inferior frontal cortex in high ruminators: An fNIRS study. *Neuroimage: Clinical*, 18, 510-517.
- Artemenko, C., Soltanlou, M., **Ehlis, A.-C.**, Nuerk, H.-C.* & Dresler, T.* (2018). The neural correlates of mental arithmetic in adolescents: A longitudinal fNIRS study. *Behavioral and Brain Functions*, 14, 5.
- Leehr, E., Schag, K., Dresler, T., Grosse-Wentrup, M., Hautzinger, M., Fallgatter, A. J., Zipfel, S., Giel, K. E.* & **Ehlis, A.-C.*** (2018). Food specific inhibitory control under negative mood in binge eating disorder – evidence from a multi-method approach. *International Journal of Eating Disorders*, 51(2), 112-123.
- Soltanlou, M., Artemenko, C., **Ehlis, A.-C.**, Huber, S., Fallgatter, A. J., Dresler, T.* & Nuerk, H.-C.* (2018). Reduction but no shift in brain activation after arithmetic learning in children: A simultaneous fNIRS-EEG study. *Scientific Reports*, 8(1), 1707.
- Rosenbaum, D., Hilsendegen, P., Thomas, M., Haeussinger, F. B., Metzger, F. G., Nuerk, H.-C., Fallgatter, A. J., Nieratschker, V. & **Ehlis, A.-C.** (2018). Cortical hemodynamic changes during the Trier Social Stress Test: A fNIRS study. *Neuroimage*, 171, 107-115.
- Gundel, F., von Spee, J., Schneider, S., Haeussinger, F. B., Hautzinger, M., Erb, M., Fallgatter, A. J. & **Ehlis, A.-C.** (2018). Meditation and the brain – Neuronal correlates of mindfulness as assessed with near-infrared spectroscopy. *Psychiatry Research*, 271, 24-33.
- Kroczek, A. M., Haeussinger, F. B., Hudak, J., Vanes, L. D., Fallgatter, A. J. & **Ehlis, A.-C.** (2018). Cue Reactivity Essentials: Event-Related Potentials During Identification of Visual Alcoholic Stimuli in Social Drinkers. *Journal of Studies on Alcohol and Drugs*, 79(1), 137-147.
- Barth, B., Fallgatter, A. J. & **Ehlis, A.-C.** (2017). Neurofeedback als Behandlungsmethode bei Erwachsenen mit einer Aufmerksamkeitsdefizit-/Hyperaktivitätsstörung. *ADHS Report*, 56, 8-12.
- Deppermann, S.*, Venneward, N.*, Diemer, J., Sickinger, S., Haeussinger, F. B., Dresler, T., Notzon, S., Laeger, I., Arolt, V., **Ehlis, A.-C.**, Fallgatter, A. J. & Zwanzger, P. (2017). Neurobiological and clinical effects of fNIRS-controlled rTMS in patients with panic disorder/agoraphobia during cognitive-behavioural therapy. *Neuroimage: Clinical*, 15, 668-677.
- Haupt, A., Licht, K.-S., Dehnen, K., Deppermann, S., Fallgatter, A. J., Revenstorff, D. & **Ehlis, A.-C.** (2017). Ein psychophysiologischer Vergleich von hypnotischer Trance und Entspannung. Eine Pilotstudie. *Hypnose-ZHH*, 12(1+2), 115-140.
- Hudak, J., Blume, F., Dresler, T., Haeussinger, F. B., Renner, T. J., Fallgatter, A. J., Gawrilow, C. & **Ehlis, A.-C.** (2017). Near-infrared spectroscopy-based frontal lobe neurofeedback integrated in virtual reality modulates brain and behavior in highly-impulsive adults. *Frontiers in Human Neuroscience*, 11, 425.
- Soltanlou, M., Artemenko, C., Dresler, T., Haeussinger, F. B., Fallgatter, A. J., **Ehlis, A.-C.*** & Nuerk, H.-C.* (2017). Increased arithmetic complexity is associated to with domain-general but not to domain-specific magnitude processing in children: A simultaneous fNIRS-EEG study. *Cognitive, Affective, & Behavioral Neuroscience* 17(4), 724-736.
- Barth, B., Fallgatter, A. J. & **Ehlis, A.-C.** (2017). Neurofeedback als Behandlungsmethode bei Erwachsenen mit einer Aufmerksamkeitsdefizit-/Hyperaktivitätsstörung. *ADHS Report*, 56, 8-12.

- Merker, S., Reif, A., Ziegler, G. C., Weber, H., Mayer, U., **Ehlis, A.-C.**, Conzelmann, A., Johansson, S., Müller-Reible, C., Nanda, I., Haaf, T., Ullmann, R., Romanos, M., Fallgatter, A. J., Pauli, P., Strekalova, T., Jansch, C., Vasquez, A. A., Haavik, J., Ribasés, M., Ramos-Quiroga, J. A., Buitelaar, J. K., Franke, B. & Lesch, K.-P. (2017). *Journal of Child Psychology and Psychiatry*, 58(7), 798-809.
- Rosenbaum, D., Haight, A., Fuhr, K., Haeussinger, F. B., Metzger, F. G., Nürk, H.-C., Fallgatter, A. J., Batra, A. & **Ehlis, A.-C.** (2017). Aberrant functional connectivity in depression as an index of state and trait rumination. *Scientific Reports*, 7(1), 2174.
- Barth, B., Mayer, K., Strehl, U., Fallgatter, A. J. & **Ehlis, A.-C.** (2017). EMG biofeedback training in adult attention-deficit/hyperactivity disorder: an active (control) Training? *Behavioural Brain Research*, 329, 58-66.
- Kroczek, A. M., Haeussinger, F. B., Fallgatter, A. J., Batra, A. & **Ehlis, A.-C.** (2017). Prefrontal Functional Connectivity measured with Near-Infrared Spectroscopy during Smoking Cue Exposure. *Addiction Biology*, 22(2), 513-522.
- Blume, F., Hudak, J., Dresler, T., Kühnhausen, J., Renner, T. J., **Ehlis, A.-C.** & Gawrilow, C. (2017). NIRS-based Neurofeedback Training in a Virtual Reality Classroom in Children with ADHD. *Trials*, 18, 41.
- Metzger, F. G., **Ehlis, A.-C.**, Haeussinger, F. B., Schneeweiss, P., Hudak, J., Fallgatter, A. J. & Schneider, S. (2017). Functional brain imaging of Walking while Talking - an fNIRS study. *Neuroscience*, 343, 85-93.
- Metzger, F. G., Schopp, B., Haeussinger, F. B., Dehnen, K., Synofzik, M., Fallgatter, A. J. & **Ehlis, A.-C.** (2016). Brain activation in frontotemporal and Alzheimer's dementia: a functional near-infrared spectroscopy study. *Alzheimers Research & Therapy*, 8, 56.
- Barth, B., Strehl, U., Fallgatter, A. J. & **Ehlis, A.-C.** (2016). Near-Infrared Spectroscopy based Neurofeedback of Prefrontal Cortex Activity: A Proof-of-Concept Study. *Frontiers in Human Neuroscience*, 10, 3389.
- Metzger, F. G., Hobert, M. A., **Ehlis, A.-C.**, Hasmann, S. E., Hahn, T., Eschweiler, G. W., Berg, D., Fallgatter, A. J., Maetzler, W. & the TREND Study team (2016). Dual Tasking for the Differentiation between Depression and Mild Cognitive Impairment. *Frontiers in Aging Neuroscience*, 8, 235.
- Kroczek, A. M., Haeussinger, F. B., Rohe, T., Schneider, S., Plewnia, C., Batra, A., Fallgatter, A. J. & **Ehlis, A.-C.** (2016). Effects of transcranial direct current stimulation on craving, heart-rate variability and prefrontal hemodynamics during smoking cue exposure. *Drug and Alcohol Dependence*, 168, 134-127.
- Ehlis, A.-C.**, Haeussinger, F. B., Gastel, A., Fallgatter, A. J. & Plewnia, C. (2016). Task-dependent and polarity-specific effects of prefrontal transcranial direct current stimulation on cortical activation during word fluency. *Neuroimage*, 140, 134-140.
- Deppermann, S.*, Notzon, S.*, Kroczek, A., Rosenbaum, D., Haeussinger, F. B., Diemer, J., Domschke, K., Fallgatter, A. J., **Ehlis, A.-C.** & Zwanzger, P. (2016). Functional co-activation within the prefrontal cortex supports the maintenance of behavioural performance in fear-relevant situations before an iTBS modulated virtual reality challenge in participants with spider phobia. *Behavioural Brain Research*, 307, 208-217.
- Lehr, E. J., Schag, K., Brinkmann, A., **Ehlis, A.-C.**, Fallgatter, A. J., Zipfel, S., Giel, K. E. & Dresler, T. (2016). Alleged approach-avoidance conflict for food stimuli in binge eating disorder. *PLoS One*, 11(4), e0152271.
- Rosenbaum, D., Hagen, K., Deppermann, S., Kroczek, A. M., Haeussinger, F. B., Heinzl, S., Berg, D., Fallgatter, A. J., Metzger, F. G., **Ehlis, A.-C.** & The TREND Study Consortium (2016). State dependent altered connectivity in late-life depression: A functional near-infrared spectroscopy study. *Neurobiology of Aging*, 39, 57-68.
- Schneider, S., Wagels, L., Haeussinger, F. B., Fallgatter, A. J., **Ehlis, A.-C.** & Rapp, A. M. (2015). Haemodynamic and electrophysiological markers of pragmatic language comprehension in schizophrenia. *The World Journal of Biological Psychiatry* 16(6), 398-410.
- Schroeder, P. A., **Ehlis, A.-C.**, Wolkenstein, L., Fallgatter, A. J. & Plewnia, C. (2015). Emotional distraction and bodily reaction: Modulation of autonomous responses by anodal tDCS to the prefrontal cortex. *Frontiers in Cellular Neuroscience*, 9, 482.

- Notzon, S.*, Deppermann, S.*, Fallgatter, A. J., Diemer, J., Kroczeck, A. M., Domschke, K., Zwanzger, P. & **Ehlis, A.-C.** (2015). Psychophysiological effects of an iTBS modulated virtual reality challenge including participants with spider phobia. *Biological Psychology*, *112*, 66-76.
- Metzger, F. G., **Ehlis, A.-C.**, Haeussinger, F. B., Fallgatter, A. J. & Hagen, K. (2015). Effects of cholinesterase inhibitor on brain activation in Alzheimer's patients measured with functional near-infrared spectroscopy. *Psychopharmacology*, *232(23)*, 4383-4391.
- Barth, B., Kroczeck, A., Deppermann, S., Dresler, T., Fallgatter, A. J. & **Ehlis, A.-C.** (2015). Epidemiologie und Pathogenese der Komorbidität von Aufmerksamkeitsdefizit-/ Hyperaktivitätsstörung (ADHS) und Sucht – Die Rolle der Exekutivfunktionen [Epidemiology and Pathogenesis of the Comorbidity of Attention-Deficit/Hyperactivity Disorder (ADHD) and Addiction – The Role of Executive Functions]. *Sucht*, *61(5)*, 279-291.
- Heinzel, S., Metzger, F. G., **Ehlis, A.-C.**, Korell, R., Alboji, A., Haeussinger, F. B., Wurster, I., Brockmann, K., Suenkel, U., Eschweiler, G. W., Maetzler, W., Berg, D. & Fallgatter, A. J. (2015). Age and Vascular Burden Determinants of Cortical Hemodynamics Underlying Verbal Fluency. *PLoS One*, *10(9)*, e0138863.
- Hagen, K., **Ehlis, A.-C.**, Haeussinger, F. B., Beeretz, S., Kromer, G. V., Heinzel, S., Maetzler, W., Eschweiler, G. W., Berg, D., Fallgatter, A. J., Metzger, F. G. & The TREND Study Consortium (2015). The relation of SMI and the VSEP in a risk sample for neurodegenerative disorders. *Journal of Neural Transmission*, *122(8)*, 1167-1174.
- Mayer, K., Wyckoff, S. N., Fallgatter, A. J., **Ehlis, A.-C.** & Strehl, U. (2015). Neurofeedback as a nonpharmacological treatment for adults with attention-deficit/hyperactivity disorder (ADHD): study protocol for a randomized controlled trial. *Trials*, *16(1)*, 174.
- Kopf, J.*, Volkert, J.*, Heidler, S., Dresler, T., Kittel-Schneider, S., Gessner, G., Neuner, M., Herrmann, M. J., **Ehlis, A.-C.** & Reif, A. (2015). Electrophysiological evidence of a typical cognitive distortion in bipolar disorder. *Cortex*, *66*, 103-114.
- Herrmann, M. J., Bogon, J., Koehler, S., Cordes, A., Stenneken, P., Reif, A. & **Ehlis, A.-C.** (2015). Serotonin transporter polymorphism modulates neural correlates of real-life joint action. An investigation with functional near-infrared spectroscopy (fNIRS). *Neuroscience*, *292*, 129-136.
- Marx, A.-M., **Ehlis, A.-C.**, Furdea, A., Holtmann, M., Banaschewski, T., Brandeis, D., Rothenberger, A., Gevensleben, H., Freitag, C. M., Fuchsberger, Y., Fallgatter, A. J. & Strehl, U. (2015). Near-infrared spectroscopy (NIRS) neurofeedback as a treatment for children with attention deficit hyperactivity disorder (ADHD)-a pilot study. *Frontiers in Human Neuroscience*, *8*, 1038.
- Brucker, B., **Ehlis, A.-C.**, Haeussinger, F. B., Fallgatter, A. J. & Gerjets, P. (2015). Watching corresponding gestures facilitates learning with animations by activating human mirror-neurons: An fNIRS study. *Learning and Instruction*, *36*, 27-37.
- Deppermann, S.*, Storchak, H.*, Fallgatter, A. J. & **Ehlis, A.-C.** (2014). Stress-induced neuroplasticity: (mal)adaptation to adverse life events in patients with PTSD - a critical overview. *Neuroscience*, *238*, 166-177.
- Bahnmueller, J., Dresler, T., **Ehlis, A.-C.**, Cress, U. & Nuerk, H.-C. (2014). NIRS in motion - Unraveling the neurocognitive underpinnings of embodied numerical cognition. *Frontiers in Psychology*, *5*, 743.
- Dresler, T., Barth, B., Ethofer, T., Lesch, K.-P., **Ehlis, A.-C.*** & Fallgatter, A. J.* (2014). Imaging genetics in adult attention-deficit / hyperactivity disorder (ADHD): A way towards pathophysiological understanding? *Borderline Personality Disorder and Emotion Dysregulation*, *1*, 6.
- Haeussinger, F. B., Dresler, T., Heinzel, S., Fallgatter, A. J. & **Ehlis, A.-C.** (2014). Reconstructing functional near-infrared spectroscopy (fNIRS) signals impaired by extra-cranial confounds: An easy-to-use filter method. *Neuroimage*, *95*, 69-79.

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