

Prof. Dr. Heidi Danker-Hopfe



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Curriculum Vitae

- 1974 - 79 Studies of Biology and Mathematics at the University of Bremen
- 1979 Completion of studies; total result of examination: "passed with honours"
- 1979 - 1984 Research assistant (phase I) in the Hunam Biology study group in the Department of Biology and Chemistry at the University of Bremen
- 1984 Ph.D. in sciences (Dr. rer. Nat) "Summa cum laude"
- 1984 - 1989 Research assistant (phase II) in the Hunam Biology study group in the Department of Biology and Chemistry at the University of Bremen
- 1989 - 1995 Research assistant (C1) in the Hunam Biology study group in the Department of Biology and Chemistry at the University of Bremen
- 1996 Qualification to lecture in the special field of Human Biology in the Department of Biology and Chemistry at the University of Bremen
- 1996 - 1998 Research assistant in Laboratory for Clinical Psychophysiology of the Department of Psychiatry at the Benjamin Franklin University Clinic of the Free University of Berlin (leave of absence 03.10.1997 to 11.08.1998)
- 1997 - 1998 Deputy professor for Human Biology at the Department of Biology and Chemistry at the University of Bremen
- since 1998 Deputy Head of the Laboratory for Clinical Psychophysiology (including sleep laboratory) of the Department of Psychiatry and Psychotherapy at the Benjamin Franklin University Clinic of the Free University of Berlin (now Charité - University Medicine Berlin, Campus Benjamin Franklin)
- 2003 Associate Professor at the University of Bremen
- 2006 Member of the committee A6 of the Radiation Protection Commission

Research Visits abroad

03/1980	Department of Anthropology at Delhi University, India, guest of Prof. R.S. Singh and Dr. M.K. Bhasin
03/1988 - 05/1988	University of Texas, Health Science Center, Houston, Graduate School of Biomedical Sciences (financial support by the DAAD), guest of Prof. Dr. R. Chakraborty
01/92 - 05/92	Visiting scholar at the University of Texas at Austin, Department of Kinesiology and Health Education, guest of Prof. Dr. R.M. Malina
09/93 - 10/93	Institute of Anthropology of the Polish Academy of Sciences in Wroclaw, Poland, (financial support by the Go-East-Programme sponsored by the EU)

Member of Editorial Boards of Scientific Journals

1989 - 1997	American Journal of Human Biology (Editor: R.M. Malina, Austin, Texas)
1995 - 2000	International Journal of Anthropology (Editor: C. Chiarelli, Florenz)
1995 - 2000	Yearbook of Anthropology (Editor: C. Susanne, Brüssel)
seit 1996	Papers of Antropologiczny (Editor: Helje Kaarma, Tartu, Estland)
seit 1997	Przegląd Antropologiczny (Editor: Prof. Dr. P. Bergmann, Poland)
1997 - 2000	Annals of Human Biology (Editors: K.J. Collins, London; G.A. Harrison, Oxford; R. Hauspie, Brüssel)

Occasionally reviews for the journals Somnology, European Journal of Sleep Research, Psychophysiology, Bioelectromagnetics

Duties in Scientific Organisations

Since 1990	elected member of the Council of the European Anthropological Association and local treasurer for Germany
1993 - 2000	General Treasurer of the European Anthropological Association
since 2001	Deputy Head of the working group "Methods" of the German Society for Sleep Research and Sleep Medicine
since 2002	Secretary of the "Berlin Brandenburgische Gesellschaft für Schlafforschung und Schlafmedizin"

Publications

Peer reviewed journals

- Ziegenhorn AA, Roepke S, Schommer NC, Merkl A, Danker-Hopfe H, Perschel FH, Heuser I, Anghelescu IG, Lammers CH: Clonidine improves hyperarousal in borderline personality disorder with or without comorbid posttraumatic stress disorder: a randomized,

double-blind, placebo-controlled trial. *J Clin Psychopharmacol.* 2009, 29(2) 170-3

- Schulte-Herbrüggen O, Fuchs E, Abumaria N, Ziegler A, Danker-Hopfe H, Hiemke C, Hellweg R: Effects of escitalopram on the regulation of brain-derived neurotrophic factor and nerve growth factor protein levels in a rat model of chronic stress. *J Neurosci Res.* 2009 Apr 9
- Danker-Hopfe H, Anderer P, Zeitlhofer J, Boeck M, Dorn H, Gruber G, Heller E, Loretz E, Moser D, Parapatics S, Saletu B, Schmidt A, Dorffner G: Interrater reliability for sleep scoring according to the Rechtschaffen & Kales and the new AASM standard. *J Sleep Res.* 2009, 18(1) 74-84
- Moser D, Anderer P, Gruber G, Parapatics S, Loretz E, Boeck M, Kloesch G, Heller E, Schmidt A, Danker-Hopfe H, Saletu B, Zeitlhofer J, Dorffner G: Sleep classification according to AASM and Rechtschaffen & Kales: effects on sleep scoring parameters. *Sleep.* 2009, 32(2) 139-49
- Hornung OP, Regen F, Dorn H, Angheliescu I, Kathmann N, Schredl M, Danker-Hopfe H, Heuser I: The effects of donepezil on postlearning sleep EEG of healthy older adults. *Pharmacopsychiatry.* 2009 Jan;42(1):9-13
- Lang UE, Günther L, Scheuch K, Klein J, Eckhart S, Hellweg R, Danker-Hopfe H, Oehler J: Higher BDNF concentrations in the hippocampus and cortex of an aggressive mouse strain. *Behav Brain Res.* 2009, 197(1) 246-249
- Jakob F, Brakemeier EL, Schommer N, Quante A, Merkl A, Danker-Hopfe H, Angheliescu I, Heuser I, Bajbouj M: Ultrahigh frequency repetitive transcranial magnetic stimulation in unipolar depression. *J Clin Psychopharmacol* 2008, 28(4) 474-476
- Schulte-Herbrüggen O, Eckart S, Deicke U, Kühl A, Otten U, Danker-Hopfe A, Abramowski D, Staufenbiel M, Hellweg: Age-dependent time course of cerebral brain-derived neurotrophic factor, nerve growth factor, and neurophin-3 in APP23 transgenic mice. *J Neurosci Res* 2008, 86(12) 2774-2783
- Brakemeier EL, Wilbertz G, Rodax S, Danker-Hopfe H, Zinka B, Zwanzger P, Grossheinrich N, Várkuti B, Rupprecht R, Bajbouj M, Padberg E: Patterns of response to repetitive transcranial magnetic

stimulation (rTMS) in major depression: replication study in drug-free patients, *J Affect Disord*, 2008 108(1-2), 59-70.

- Hornung OP, Regen F, Danker-Hopfe H, Heuser I, Lammers CH: Declarative and procedural memory consolidation during sleep in patients with borderline personality disorder. *J Psychiatr Research*, 2008, 42(8), 653-658.
- Sauter C, Popp R, Danker-Hopfe H, Büttner A, Wilhelm B, Binder R, Böhning W, Weeß, HG: Normative values of the German Epworth Sleepiness Scale. Results from a multicenter study. *Somnologie* 2007, 11 272-278.
- Peter A, Hansen ML, Merkl A, Voigtländer S, Bajbouj M, Danker-Hopfe H: REM sleep behaviour disorder and excessive startle reaction to visual stimuli in a patient with pontine lesions. *Sleep Med* 2007,
- Hornung OP, Regen F, Danker-Hopfe H, Heuser I, Anghelescu I: Sleep-related memory consolidation in depression: an emerging field of research. *Depress Anxiety* 2007.
- Schulte-Herbrüggen O, Hamker U, Meske V, Danker-Hopfe H, Ohm TG, Hellweg R beta/A4-Amyloid increases nerve growth factor production in rat primary hippocampal astrocyte cultures. *Int J Dev Neurosci* 2007, 25(6) 387-390
- Merkl A, Brakemeier EL, Danker-Hopfe H, Bajbouj M Vagus nerve stimulation improves restless legs syndrome associated with major depression: a case report. *J Clin Psychiatry* 2007 68(4) 635-656
- Jockers-Scherübl MC, Zubraegel D, Baer T, Linden M, Danker-Hopfe H, Schulte-herbrüggen O, Neu P, Hellweg R Nerve growth factor serum concentrations rise after successful cognitive-behavioural therapy of generalized anxiety disorder. *Prog Neuropsychopharmacol Biol Psychiatry* 2007 31(1) 200-2004
- Jockers-Scherübl MC, Bauer A, Kuhn S, Reischies F, Danker-Hopfe H, Schmidt LG, Rentzsch J, Hellweg R. Nerve growth factor in serum is a marker of the stage of alcohol disease. *Neurosci Lett* 2007 419(1) 78-82
- Ziegenhorn AA, Schulte-Herbrüggen O, Danker-Hopfe H, Malbranc M, Hartung HD, Anders D, Lang UE, Steinhagen-Thiessen E, Schaub RT, Hellweg R. Serum neutrophins – A study on the time

course and influencing factors in a large old age sample. *Neurobiol Aging* 2007 28(9) 1436-1445

- Brakemeier EL, Luborzewski A, Danker-Hopfe H, Kathmann N, Bajbouj M. Positive predictors for antidepressive response to prefrontal repetitive transcranial magnetic stimulation. *J Psychiatry Research* 2007, 41(7) 395-403,
- Luborzewski A, Schubert F, Danker-Hopfe H, Brakemeier EL, Schlattmann P, Angheliescu I, Colla M, Bajbouj M. Metabolic alterations in the dorso9lateral prefrontal cortex after treatment with high-frequency repetitive transcranial magnetic stimulation in patients with unipolar major depression. *J Psych Research* 2007, 41(7) 606-615.
- Jockers-Scherübl MC, Zubraegel D, Baer T, Linden M, Danker-Hopfe H, Schulte-Herbrüggen O, Neu P, Hellweg R. Nerve growth factor serum concentrations rise after successful cognitive-behavioural therapy of generalized anxiety disorder. *Prog Neuropsychopharmacol Biol Psychiatry* 2007, 31(1) 200-2004.
- Hornung OP, Regen F, Danker-Hopfe H, Schredl M, Heuser I. The relationship between REM sleep and memory consolidation in old age and effects of cholinergic medication. *Biol Psychiatry* 2007, 61(6) 750-757.
- Bajbouj M, Gallinat J, Lang UE, Hellen F, Vesper J Lisanby SH, Danker-Hopfe H, Neu P. Motor cortex excitability after vagus nerve stimulation in major depression. *J Clin Psychopharmacol* 2007, 27(2) 156-159
- Bajbouj M, Lisanby SH, Lang UE, Danker-Hopfe H, Heuser I, Neu P. Evidence for Impaired Cortical Inhibition in Patients with Unipolar Major Depression. *Biol Psychiatry*. 2006 59(5) 395-400.
- Danker-Hopfe H, Binder R, Popp R, Sauter C, Büttner A, Böhning W, Weeß HG: Erhebung zur Praxis der Durchführung von Multiplen Schlaflatenztests (MSLT) in akkreditierten Schlaflaboren. *Somnologie* 2006, 10: 43-52.
- Hornung OP, Regen F, Schredl M, Heuser I, Danker-Hopfe H. Manipulating REM sleep in older adults by selective REM sleep deprivation and physiological as well as pharmacological REM sleep augmentation methods. *Exp Gerontol* 2006, 197(2) 486-494

- Rodenbeck A, Binder R, Geisler P, Danker-Hopfe H, Lund R, Raschke F, Weeß HG, Schulz H. A review of sleep EEG patterns. Part I: A compilation of amended rules for their visual recognition according to Rechtschaffen and Kales. *Somnologie* 2006, 10 159-175.
- Jockers-Scherübl MC, Rentzsch J, Danker-Hopfe H, Radzei N, Schürer F, Bahri S Hellweg R. Dequate atipsychotic treatment normalizes serum nerve growth factor concentrations in schizophrenia with and without cannabis or additional substance abuse. *Neurosci Lett* 2006, 400(3) 262-266.
- Bajbouj M, Danker-Hopfe H. Maintenance treatment of depression in old age. *N Engl J Med* 2006 354(23) 2505-2506.
- Bajbouj M, Danker-Hopfe H, Heuser I, Angheliescu I. Long-term outcome of vagus nerve stimulation in rapid-cycling bipolar disorder. *J Clin Psychiatry* 2006 76(5) 837-838.
- Schulte-Herbrüggen O, Chourbaji S, Müller H, Danker-Hopfe H, Brandwein C, Gass P, Hellweg R. Differential regulation of nerve growth factor brain-derived neurotrophic factor in a mouse model of learned helplessness. *Exp Neurol* 2006 2002(2) 404-409.
- Schredl M, Hornung O, Regen F, Albrecht N, Danker-Hopfe H, Heuser I. The effect of donepezil on sleep in elderly, healthy persons: a double-blind placebo-controlled study. *Pharmacopsychiatry* 2006 39(6) 205-208.
- Danker-Hopfe H, Hornung O, Regen F, Hansen ML, Albrecht N. Subjective sleep quality in noncomplaining elderly subjects: result of a follow-up study. *Anthrop Anz* 2006, 64(4) 369-376.
- Bajbouj M, Brakemeier EL, Schubert F, Lang UE, Neu P, Schindowski C, Danker-Hopfe H. Repetitive transcranial magnetic stimulation of the dorsolateral prefrontal cortex and cortical excitability in patients with major depressive disorder. *Exp Neurol*. 2005 Dec;196(2):332-8.
- Hornung O, Danker-Hopfe H, Heuser I. Age-related changes in sleep and memory: commonalities and interrelationships. *Exp Gerontol* 2005, 40(4), 279-285
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- Danker-Hopfe H, Schäfer M, Dorn H, Anderer P, Saletu B, Gruber G, Zeitlhofer J, Kunz D, Barbanj MJ, Himanen SL, Kemp B, Penzel T, Röschke J, Dorffner G. Percentile reference charts for selected sleep parameters for 20- to 80 year-old healthy subjects from the SIESTA database. *Somnology* 2005, 9 3-14.
- Bajbouj M, Luborzewski A, Danker-Hopfe H, Lang UE. Motor cortical excitability in depressive patients after electroconvulsive therapy and repetitive transcranial magnetic stimulation. *J ECT*. 2005 Dec;21(4):243-5.
- Danker-Hopfe H, Dorn H. Biologische Effekte hochfrequenter elektromagnetischer Felder im Mobilfunkfrequenzbereich auf den Schlaf: gegenwärtiger Kenntnisstand aus Laborstudien. *EMF Monitor* 2004 10: 1-6.
- Jockers-Scherübl M, Danker-Hopfe H, Mahlberg R, Selig F, Rentzsch J, Schürer F, Lang UE, Hellweg R. Brain-derived neurotrophic factor serum concentrations are increased in drug-naive schizophrenic patients with chronic cannabis abuse and multiple substance abuse. *Neuroscience Letters* 2004, 371: 79-83
- Lang UE, Mühlbacher M, Hesselink MB, Zajackowski, Danysz W, Danker-Hopfe H, Hellweg R. No nerve growth factor response to treatment with memantine in rats. *J Neural Transmission* 2004,111: 181-190
- Danker-Hopfe H, Dorn H. Untersuchungen an Probanden unter Exposition mit hochfrequenten elektromagnetischen Feldern von Mobiltelefonen, Literaturübersicht. 2004 www.emf-forschungsprogramm.de/forschung/biologie/biologie_verg/bio_095.html
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- Lang UE, Mühlbacher M, Hesselink MB, Zajackowski, Danysz W, Danker-Hopfe H, Hellweg R. No nerve growth factor response to treatment with memantine in rats. J Neural Transmission 2004, 111: 181-190
- Körtner K, Hansen ML, Danker-Hopfe H, Jockers-Scherübl M. Kleine-Levin Syndrom unter dem Bild einer katatonen Schizophrenie. Neurotransmitter 2004, 12: 72-74
- Danker-Hopfe H, Dorn H. Untersuchungen an Probanden unter Exposition mit hochfrequenten elektromagnetischen Feldern von Mobiltelefonen, Literaturübersicht. www.emf-forschungsprogramm.de/forschung/biologie/biologie_verg/bio_095.html
- Bajbouj M, Brakemeier EL, Schubert F, Lang UE, Neu P, Schindowski C, Danker-Hopfe H. Repetitive transcranial magnetic stimulation of the dorsolateral prefrontal cortex and cortical excitability in patients with major depressive disorder. Exp Neurol. 2005 Dec;196(2):332-8.
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- Anderer P, Gruber G, Parapatics S, Woertz M, Miazhynskaia T, Klösch G, Saletu B, Zeitlhofer J, Barbanoj MJ, Danker-Hopfe H, Himanen SL, Kemp B, Penzel T, Grozinger M, Kunz D, Rappelsberger P, Schlogl A, Dorffner G. An E-Health solution for automatic sleep classification according to Rechtschaffen and Kales: Validation study of the Somnolyzer 24x7 utilizing the Siesta Database. Neuropsychobiology 2005 51: 115-133
- Danker-Hopfe H, Dorn H. Biological effects of electromagnetic fields at mobile phone frequencies on sleep: current state of knowledge from laboratory studies. Somnologie 2005, 9: 192-198

- Bajbouj M, Luborzewski A, Danker-Hopfe H, Lang UE. Motor cortical excitability in depressive patients after electroconvulsive therapy and repetitive transcranial magnetic stimulation. *J ECT*. 2005 Dec;21(4):243-5.
- Bajbouj M, Lisanby SH, Lang UE, Danker-Hopfe H, Heuser I, Neu P. Evidence for Impaired Cortical Inhibition in Patients with Unipolar Major Depression. *Biol Psychiatry*. 2006 59(5) 395-400.
- Danker-Hopfe H, Binder R, Popp R, Sauter C, Büttner A, Böhning W, Weeß HG: Erhebung zur Praxis der Durchführung von Multiplen Schlaflatenztests (MSLT) in akkreditierten Schlaflaboren. *Somnologie* 2006, 10: 43-52.
- Bajbouj M, Danker-Hopfe H, Heuser I, Angheliescu I. Long-term outcome of vagus nerve stimulation in rapid-cycling bipolar disorder. *J Clin Psychiatry* (in press)
- Luborzewski A, Schubert F, Danker-Hopfe H, Brakemeier EL, Schlattmann P, Angheliescu I, Colla M, Bajbouj M. Altered glutamate levels in the dorsolateral prefrontal cortex after treatment-response to repetitive transcranial magnetic stimulation in patients with unipolar major depression. *J Psych Research* (in press)
- Hornung OP, Regen F, Schredl M, Heuser I, Danker-Hopfe H. Manipulating REM sleep in older adults by selective REM sleep deprivation and physiological as well as pharmacological REM sleep augmentation methods. *Exp Gerontol* 2006, 197(2) 486-494
- Brakemeier EL, Luborzewski A, Danker-Hopfe H, Kathmann N, Bajbouj M. Positive predictors for antidepressive response to prefrontal repetitive transcranial magnetic stimulation. *J Psychiatry Research* (in press)
- Lang UE, M Mühlbacher, MB Hesselink, W Zajaczkowski, W Danysz, Heidi Danker-Hopfe and R Hellweg, 2004: No nerve growth factor response to treatment with memantine in adult rats. - *Journal of Neural Transmission* 111, 181-190.
- Lang UE, M Bajbouj, C Wernicke, H Rommelspacher, Heidi Danker-Hopfe and J Gallinat, 2004: No association of a functional polymorphism in the serotonin transporter gene promoter and anxiety-related personality traits. - *Neuropsychobiology* 49, 182-184.

- Lang UE, D. Anders, Heidi Danker-Hopfe and R Hellweg, 2004: Measurement of nerve growth factor serum concentration in a psychologically stressful situation in men. - *Stress* 7 (1), 39-42.
- Danker-Hopfe Heidi, D Kunz, G Gruber, G Klösch, JL Lorenzo, SL Himanen, B Kemp, T Penzel, J Röschke, H Dorn, A Schlögl, E Trenker and G Dorffner, 2004: Interrater reliability between scoreres from eight European sleep laboratories in subjects with different sleep disorders. - *J Sleep Res* 2004; 13; 63-69
- Maria C Jockers.Scherübl, Uta Matthies, Heidi Danker-Hopfe, Undine E. Lang, Richard mahlberg und Rainer Hellweg, Chronic cannabis abuse raises nerve growth factor serum concentrations in drug-naive schizophrenic patients; *Journal of Psychopharmacology*, 2003, 17 (4) 439-445
- Penzel T, PG Behler, M von Butlar, R Conradt, M Meier, A Möller and Heidi Danker-Hopfe, 2003: Reliabilität der visuellen Schlafauswertung nach Rechtschaffen und Kales von acht Aufzeichnungen durch neun Schlaflabore. - *Somnologie* 7, 49-58.
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- Baumgart-Schmitt, R., A. Wenzel, H. Danker-Hopfe and W.M. Herrmann, 2002: Genetic programming approach for the optimal selection of combinations of Neural Networks to classify sleep stages by QUISI®. - *Methods Find Exp Clin Pharmacol* 24 (Suppl. D) 27-32.
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- Danker-Hopfe Heidi und WM Herrmann 2001: Interrater-reliability of sleep stage scoring according to Rechtschaffen and Kales Rules (RKR): A Review and methodological considerations. - Klin. Neurophysiol. 32, 89-99.
- Danker-Hopfe Heidi, Susanne Kraemer, H Dorn , Andrea Schmidt, Ingrid Ehlert und WM Herrmann, 2001: Time-of-day variations in different measures of sleepiness (MSLT, pupillography, and SSS) and their interrelations. - Psychophysiology 38, 828-35.
- Kraemer, Susanne, Heidi Danker-Hopfe, H. Dorn, I. Ehlert, A. Schmidt und W.M. Herrmann, 2000: Time of day variations of different indicators of attention: performance, physiological parameters and self assessment of the degree of sleepiness. - Biological Psychiatry 48, 1069-80.
- Danker-Hopfe, Heidi und Kirsten Roczen, 2000: Secular trends in height, weight and body mass index of 6-year-old children in Bremerhaven. - Annals of Human Biology 27, 263-270.
- Zabransky, S., Ch. Weinand, Anke Schmidgen, Carolin Schafmeister, Sylvia Müller, Rita Hollinger-Philip und Heidi Danker-Hopfe, 1999: Saarländische Wachstumsstudie. Perzentilen für Körperhöhe, Körpergewicht und Body Mass Index (BMI) für saarländische Jungen und Mädchen im Alter zwischen 4 und 18 Jahren. - Wiener Medizinische Wochenschrift 7, 145-152.
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- Danker-Hopfe, Heidi und S. Zabransky, 1999: Saarländische Wachstumsstudie: Sampling Design. - Wiener Medizinische Wochenschrift 7, 136-139.
- Kraemer, Susanne, M. Halank, T. Maaser und Heidi Danker-Hopfe, 1999: Psychophonie zur Beeinflussung der Tagesmüdigkeit bei Narkolepsie. - Somnologie 3, 1-5.
- Ehlert, Ingrid, Heidi Danker-Hopfe, Liselotte Höller, P. Von Rickenbach, R. Baumgart-Schmitt and W.M. Herrmann 1998: A

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- Siváková, Daniela, H. Walter, Kerstin Buhrs-Engler, Heidi Danker-Hopfe, Margret Harms, Manuela Prüß und Ingrid Wichmann, 1995: Genetic studies in a North Slovakian isolate: Chmelnica. 2. Distribution of genetic markers of the blood. - *Z. Morph. Anthrop.* 80, 247-257.
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