

Publikationen Prof. Dr. med. Martin Huber

- Lincoln TM, Möbius C, **Huber MT**, Nagel M, Moritz S (2014): Frequency and correlates of maladaptive responses to paranoid thoughts in patients with psychosis compared to a population sample. *Cognitive Neuropsychiatry* 19:509-26.
- Gebhardt S, Wolak AM, **Huber MT** (2013): Patient satisfaction and clinical parameters in psychiatric inpatients – the prevailing role of symptom severity and pharmacologic disturbances. *Comprehensive Psychiatry* 54:53-60.
- Tchaptchet A, Postnova S, Finke C, Schneider H, **Huber MT**, Braun HA (2013): Modeling neuronal activity in relation to experimental voltage-/patch-clamp recordings. *Brain Research* 1536:159-67.
- Braun HA, Schwabedal J, Dewald M, Finke C, Postnova S, **Huber MT**, Wollweber B, Schneider H, Hirsch MC, Voigt K, Feudel U, Moss F (2011): Noise-induced precursors of tonic-to-bursting transitions in hypothalamic neurons and in a conductance-based model. *Chaos* 21:047509.
- Kundermann B, Hemmeter-Spernal J, Strate P, Gebhardt S, **Huber MT**, Krieg JC, Lautenbacher S (2009): Pain sensitivity in major depression and its relationship to central serotonergic function as reflected by the neuroendocrine response to clomipramine. *Journal of Psychiatric Research* 43:1253-1261.
- Kundermann B, Strate P, Hemmeter-Spernal J, **Huber MT**, Krieg JC, Lautenbacher S (2009): Mid-term effects of serial sleep deprivation therapy implemented in cognitive-behavioral treatment on the neuroendocrine response to clomipramine in patients with major depression. *Journal of Psychiatric Research* 43:711-720.
- Gebhardt S, Grant P, von Georgi R, **Huber MT** (2008): Aspects of Piaget's cognitive developmental psychology and neurobiology of psychotic disorders – an integrative model. *Medical Hypothesis* 71:426-433.
- Martin V, **Huber MT**, Rief W, Exner C (2008): Comparative cognitive profiles of obsessive-compulsive disorder and schizophrenia. *Archives of Clinical Neuropsychology* 23:487-500.
- Exner C, Nehr Korn B, Martin V, Huber MT, Shiratori K, Rief W (2008): Sex-dependent hippocampal volume reductions in schizophrenia relate to episodic memory deficits. *Journal of Neuropsychiatry Clinical Neuroscience* 20:227-230.
- Kundermann B, Hemmeter-Spernal J, **Huber MT**, Krieg JC, Lautenbacher S (2009): Effects of total sleep deprivation in major depression: overnight improvement of mood is

accompanied by increased pain sensitivity and augmented pain complaints. *Psychosomatic Medicine* 70:92-101.

Huber MT and Braun HA (2007): Conductance versus current noise in a neuronal model for noisy subthreshold oscillations and related spike generation. *Biosystems* 89:38-43.

Huber MT and Braun HA (2006): Stimulus - response curves of a neuronal model for noisy subthreshold oscillations and related spike generation. *Physical Reviews E* 73:041929-1-10.

Huber MT, Bartling J, Pachur D, v. Woikowsky-Biedau S and Lautenbacher S (2006): EEG Responses to Tonic Heat Pain. *Experimental Brain Research* 173:14-24.

Huber MT, Braun HA, Krieg JC (2004): Recurrent affective disorders: nonlinear and stochastic models of disease dynamics. *International Journal of Bifurcation and Chaos* 14:635-652.

Kundermann B, Krieg JC, **Huber MT** and Lautenbacher S (2004). Sleep deprivation affects thermal pain thresholds but not somatosensory thresholds in healthy volunteers. *Psychosomatic Medicine* 66:932-937.

Sainz-Trapaga M, Masoller C, Braun HA and **Huber MT** (2004): Influence of time-delayed feedback in the firing patterns of thermally sensitive neurons. *Physical Reviews E* 70:031904.

Braun HA, Voigt K, Krieg JC and **Huber MT** (2004): Indications of physiological and pathophysiological relevance of noise and chaos. *Fluctuation and Noise Letters* 4: L207-L217.

Mosekilde E, Sosnovtseva OV, Postnov D, Braun HA and **Huber MT** (2004): Noise-activated and noise-induced rhythms in neural systems. *Nonlinear Studies* 11:449-467.

Huber MT, Braun HA, Krieg JC (2003): On episode sensitization in recurrent affective disorders: the role of noise. *Neuropsychopharmacology* 28: S13 -S20.

Braun HA, Schäfer K, Voigt K and **Huber MT** (2003): Temperature encoding in peripheral cold receptors: oscillations, resonances, chaos and noise. In: Nonlinear dynamics and the spatiotemporal principles in biology. *Nova Acta Leopoldina NF* Bd. 88. Nr. 332.

Braun HA, Voigt KH and **Huber MT** (2003): Oscillations, resonances and noise: basis of flexible neuronal pattern generation. *Biosystems*, 71:39-50.

Dewald M, Braun HA, **Huber MT**, Zwingmann D, Roth J, Voigt K (2002): Interactions of temperature and angiotensin II in paraventricular neurons of rats in vitro. *Pflugers Archiv (European Journal of Physiology)*. 2002 May;444(1-2):117-25.

- Huber MT**, Braun HA, Krieg JC (2001): Impact of episode sensitization on the course of recurrent affective disorders. *Journal of Psychiatric Research* 35: 49 – 57.
- Huber MT**, Braun HA, Krieg JC (2001): Some computational aspects of the kindling model for neuropsychiatric disorders. *Neurocomputing* 38-40:1297-1306.
- Braun HA, **Huber MT**, Anthes N, Voigt K, Neiman A, Pei X and Moss F (2001): Noise induced impulse pattern modifications at different dynamical period-one situations in a computer-model of temperature encoding. *Biosystems* 62:99-102.
- Huber MT**, Braun HA, Krieg JC (2000): Effects of noise on different disease states of recurrent affective disorders. *Biological Psychiatry* 47:634-642.
- Huber MT**, Krieg JC, Braun HA, Pei X, Neiman A, Moss F (2000): Noisy precursors of bifurcations in a neurodynamical model for disease states of affective disorders. *Neurocomputing* 33: 823-831.
- Huber MT**, Krieg JC, Dewald M, Voigt K, Braun HA (2000): Stochastic encoding in sensory neurons: impulse patterns of mammalian cold receptors. *Chaos, Solitons and Fractals* 12:1895-1903.
- Huber MT**, Braun HA, Krieg JC (2000): Noise, nonlinear dynamics and the timecourse of affective disorders. *Chaos, Solitons and Fractals* 12:1923-1928.
- Braun W, Eckhardt B, Braun HA and **Huber MT** (2000): Phase space structure of a thermoreceptor. *Physical Reviews E* 62:6352-6360.
- Feudel U, Neiman A, Pei X, Wojtenek W, Braun HA, **Huber MT**, Moss F (2000). Homoclinic bifurcation in a Hodgkin-Huxley model of thermally sensitive neurons, *Chaos* 10:231-239.
- Braun HA, **Huber MT**, Anthes N, Voigt K, Neiman A, Pei X, Moss F (2000): Interactions between slow and fast conductances in the Huber/Braun model of cold receptor discharges. *Neurocomputing* 32:51-59.
- Huber MT**, Braun HA, Krieg JC (1999): Consequences of deterministic and random dynamics for the course of affective disorders. *Biological Psychiatry* 46:256-262.
- Huber MT**, Gotthardt U, Schreiber W, Krieg JC (1999): Efficacy and Safety of the sigma receptor ligand EMD 57445 (panamesine) in patients with schizophrenia: an open clinical trial. *Pharmacopsychiatry* 32:68-72.
- Neiman A, Pei X, Russell D, Wojtenek W, Wilkens L, Moss F, Braun H, **Huber MT**, Voigt K (1999): Synchronization of the electrosensitive noisy cells in the paddlefish, *Physical Review Letters* 82, 660-663.

Braun HA, Dewald M, Voigt K, **Huber MT**, Pei X, Moss F (1999): Finding unstable periodic orbits in electroreceptors, cold receptors and hypothalamic neurons. *Neurocomputing* 26: 79-86.

Huber MT, Krieg JC, Dewald M, Voigt K, Braun HA (1998): Stimulus sensitivity and neuromodulatory properties of noisy intrinsic neuronal oscillators. *Biosystems* 48:95-104.

Braun HA, ***Huber MT**, Dewald M, Schäfer K, Voigt K (1998): Computer simulations of neuronal signal transduction: the role of nonlinear dynamics and noise. *International Journal of Bifurcation and Chaos* 8:881-889. (*gleicher Anteil wie Erstautor)