

Abteilung "Klinische Neurophysiologie"

Journalbeiträge

1. Antal A, Paulus W (2007) Transkranielle Magnet- Gleichstromstimulation bei Kopfschmerzen. *NERVENHEILKUNDE*, 26 (1): 22-26.
2. Antal A, Paulus W (2007) Transkranielle Gleichstromstimulation: Neues Werkzeug in der Schmerztherapie? *AKTUEL NEUROL*, 34: 530-533.
3. Antal A, Terney D, Poreisz C, Paulus W (2007) Towards unravelling task-related modulations of neuroplastic changes induced in the human motor cortex. *EUR J NEUROSCI*, 26(9): 2687-91.
4. Bachmann CG, Trenkwalder C (2007) Parkinson disease and obesity. *Focus on Parkinson`s disease*, 19: 4-7.
5. Baier PC, Trenkwalder C (2007) Circadian variation in restless legs syndrome. *SLEEP MED*, 8(6): 645-50.
6. Baier PC, Ondo WG, Winkelmann J (2007) Animal studies in restless legs syndrome. *MOVEMENT DISORD*, 22 (Suppl. 18): 459-465.
7. Bibl M, Esselmann H, Mollenhauer B, Weniger G, Welge V, Liess M, Lewczuk P, Otto M, Schulz JB, Trenkwalder C, Kornhuber J, Wiltfang J (2007) Blood-based neurochemical diagnosis of vascular dementia: a pilot study. *J NEUROCHEM*, 103(2): 467-74.
8. Bibl M, Mollenhauer B, Lewczuk P, Esselmann H, Wolf S, Trenkwalder C, Otto M, Stiens G, Rütther E, Kornhuber J, Wiltfang J (2007) Validation of amyloid-beta peptides in CSF diagnosis of neurodegenerative dementias. *MOL PSYCHIATR*, 12(7): 671-80.
9. Boggio PS, Nunes A, Rigonatti SP, Nitsche MA, Pascual-Leone A, Fregni F (2007) Repeated sessions of noninvasive brain DC stimulation is associated with motor function improvement in stroke patients. *RESTOR NEUROL NEUROS*, 25(2): 123-9.
10. Chadaide Z, Arlt S, Antal A, Nitsche MA, Lang N, Paulus W (2007) Transcranial direct current stimulation reveals inhibitory deficiency in migraine. *CEPHALALGIA*, 27(7): 833-9.
11. Ehrenreich H, Fischer B, Norra C, Schellenberger F, Stender N, Stiefel M, Sirén AL, Paulus W, Nave KA, Gold R, Bartels C (2007) Exploring recombinant human erythropoietin in chronic progressive multiple sclerosis. *BRAIN*, 130(Pt 10): 2577-88.
12. Fregni F, Liebetanz D, Monte-Silva KK, Oliveira MB, Santos AA, Nitsche MA, Pascual-Leone A, Guedes RC (2007) Effects of transcranial direct current stimulation coupled with repetitive electrical stimulation on cortical spreading depression. *EXP NEUROL*, 204(1): 462-6.
13. García-Borreguero D, Allen RP, Kohnen R, Högl B, Trenkwalder C, Oertel W, Hening WA, Paulus W, Rye D, Walters A, Winkelmann J, Earley CJ, International RLSSG (2007) Diagnostic standards for dopaminergic augmentation of restless legs syndrome: report from a World Association of Sleep Medicine-International Restless Legs Syndrome Study Group consensus conference at the Max Planck Institute. *SLEEP MED*, 8(5): 520-30.
14. García-Borreguero D, Kohnen R, Högl B, Ferini-Strambi L, Hadjigeorgiou GM, Hornyak M, de Weerd AW, Happe S, Stiasny-Kolster K, Gschliesser V, Egatz R, Cabrero B, Frauscher B, Trenkwalder C, Hening WA, Allen RP (2007) Validation of the Augmentation Severity Rating Scale (ASRS): a multicentric, prospective study with levodopa on restless legs syndrome. *SLEEP MED*, 8(5): 455-63.
15. Happe S (2007) Wen die Beine nicht zur Ruhe kommen. *Schlafbezogene Bewegungsstörungen. Allgemeinarzt*, 5: 26-29.
16. Happe S, Bachmann CG, Helmschmied K, Neubert K, Wuttke W, Paulus W, Trenkwalder C (2007) Growth hormone response to low-dose apomorphine in restless legs syndrome. *GROWTH HORM IGF RES*, 17(4): 323-7.
17. Happe S, Baier PC, Helmschmied K, Meller J, Tatsch K, Paulus W (2007) Association of daytime sleepiness with nigrostriatal dopaminergic degeneration in early Parkinson's disease. *J NEUROL*, 254(8): 1037-43.
18. Happe S, Kundmüller L, Reichelt D, Husstedt IW, Evers S (2007) Comorbidity of restless legs syndrome and HIV infection. *J NEUROL*, 254(10): 1401-6.
19. Happe S, Tings T, Koch W, Welsch J, Helmschmied K, Baier PC, Meller J, Wuttke W, Paulus W, Tatsch K, Trenkwalder C (2007) Growth hormone response in low-dose apomorphine test correlates with nigrostriatal dopamine transporter binding in patients with Parkinson's disease. *J NEURAL TRANSM*, 114(5): 589-94.
20. Hildebrandt H, Happe S, Deutschmann A, Basar-Eroglu C, Eling P, Brunhöber J (2007) Brain perfusion and VEP reactivity in occipital and parietal areas are associated to recovery from hypoxic vegetative state. *J NEUROL SCI*, 260(1-2): 150-8.
21. Kemlink D, Polo O, Montagna P, Provini F, Stiasny-Kolster K, Oertel W, de Weerd A, Nevsimalova S, Sonka K, Högl B, Frauscher B, Poewe W, Trenkwalder C, Pramstaller PP, Ferini-Strambi L, Zucconi M, Konofal E, Arnulf I, Hadjigeorgiou GM, Happe S, Klein C, Hiller A, Lichtner P, Meitinger T, Müller-Myshok B, Winkelmann J (2007) Family-based association study of the restless legs syndrome loci 2 and 3 in a European population. *MOVEMENT DISORD*, 22(2): 207-12.

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22. Klinker F, Hering D, Koch R (2007) Anticonvulsive aftereffects of cathodal transcranial direct current stimulation (tDCS) in the rat transcranial ramp model of focal epilepsy. *EPILEPSIA*, 48(3): 55-56.
23. Kotterba S, Orth M, Happe S, Mayer G (2007) Begutachtung der Tagesschläfrigkeit bei neurologischen Erkrankungen und dem obstruktiven Schlafapnoesyndrom (OSAS). *NERVENARZT*, 78: 861-870.
24. Kümpfel T, Schwan M, Pollmächer T, Yassouridis A, Uhr M, Trenkwalder C, Weber F (2007) Time of interferon-beta 1a injection and duration of treatment affect clinical side effects and acute changes of plasma hormone and cytokine levels in multiple sclerosis patients. *MULT SCLER*, 13(9): 1138-45.
25. Kuo MF, Grosch J, Fregni F, Paulus W, Nitsche MA (2007) Focusing effect of acetylcholine on neuroplasticity in the human motor cortex. *J NEUROSCI*, 27(52): 14442-7.
26. Lang N, Siebner HR, Chadaide Z, Boros K, Nitsche MA, Rothwell JC, Paulus W, Antal A (2007) Bidirectional modulation of primary visual cortex excitability: a combined tDCS and rTMS study. *INVEST OPHTH VIS SCI*, 48(12): 5782-7.
27. Lanz M, Happe S (2007) Wenn die Beine nachts weiterlaufen. Das Restless Legs Syndrom. *MMW Fortschr Med*, 149 (Suppl 2): 42-44.
28. Lewinsky F, Werner J, Jörn T, Mohr A, Sixel-Döring F, Trenkwalder C (2007) T2 weighted MRI in Diagnosis of multiple system atrophy. A practical approach for clinicians. *J NEUROL*, 254(9): 1184-1188.
29. Liebetanz D, Baier PC, Paulus W, Meuer K, Bähr M, Weishaupt JH (2007) A highly sensitive automated complex running wheel test to detect latent motor deficits in the mouse MPTP model of Parkinson's disease. *EXP NEUROL*, 205(1): 207-13.
30. Liebetanz D, Paulus W, Nitsche MA (2007) Methods and mechanisms of transcranial direct current stimulation. *KLIN NEUROPHYSIOL*, 38: 136-140.
31. Linker RA, Chan A, Sommer M, Koziolok M, Müller GA, Paulus W, Gold R (2007) Plasma exchange therapy for steroid-refractory superimposed relapses in secondary progressive multiple sclerosis. *J NEUROL*, 254(9): 1288-9.
32. Meyer zu Horste G, Prukop T, Liebetanz D, Mobius W, Nave KA, Sereda MW (2007) Antiprogestosterone therapy uncouples axonal loss from demyelination in a transgenic rat model of CMT1A neuropathy. *ANN NEUROL*, 61(1): 61-72.
33. Mollenhauer B, Bibl M, Esselmann H, Steinacker P, Trenkwalder C, Wiltfang J, Otto M (2007) Tauopathies and synucleinopathies: Do cerebrospinal fluid beta-amyloid peptides reflect disease-specific pathogenesis? *J NEURAL TRANSM*, 114(7): 919-927.
34. Mollenhauer B, Steinacker P, Bahn E, Bibl M, Brechlin P, Schlossmacher MG, Locascio JJ, Wiltfang J, Kretschmar HA, Poser S, Trenkwalder C, Otto M (2007) Serum heart-type fatty acid-binding protein and cerebrospinal fluid tau: marker candidates for dementia with Lewy bodies. *Neurodegenerative Dis*, 4(5): 366-75.
35. Nitsche MA, Fregni F (2007) Transcranial direct current stimulation - an adjuvant tool for the treatment of neuropsychiatric diseases? *Current Psychiatry Reviews*, 3: 222-232.
36. Nitsche MA, Antal A, Liebetanz D, Lang N, Tergau F, Paulus W (2007) tDCS-induced neuroplasticity evaluated by TMS. *Eur J Neurosci (Internet-Ausgabe)*, 26: 2687-2691.
37. Nitsche MA, Doemkes S, Karaköse T, Antal A, Liebetanz D, Lang N, Tergau F, Paulus W (2007) Shaping the effects of transcranial direct current stimulation of the human motor cortex. *J NEUROPHYSIOL*, 97(4): 3109-17.
38. Nitsche MA, Roth A, Kuo MF, Fischer AK, Liebetanz D, Lang N, Tergau F, Paulus W (2007) Timing-dependent modulation of associative plasticity by general network excitability in the human motor cortex. *J NEUROSCI*, 27(14): 3807-12.
39. Paulus W, Trenkwalder C (2007) Update for the pathophysiology for the restless legs syndrome. *AKTUEL NEUROL*, 34: 2-5.
40. Paulus W, Dowling P, Rijsman R, Stiasny-Kolster K, Trenkwalder C (2007) Update of the Pathophysiology of the Restless-Legs- Syndrome. *MOVEMENT DISORD*, 22 (Suppl 18): 431-439.
41. Paulus W, Dowling P, Rijsman R, Stiasny-Kolster K, Trenkwalder C, de Weerd A (2007) Pathophysiological concepts of restless legs syndrome. *MOVEMENT DISORD*, 22(10): 1451-6.
42. Poreisz C, Boros K, Antal A, Paulus W (2007) Safety aspects of transcranial direct current stimulation concerning healthy subjects and patients. *BRAIN RES BULL*, 72(4-6): 208-14.
43. Quartarone A, Lang N, Rizzo V, Bagnato S, Morgante F, Sant'angelo A, Crupi D, Battaglia F, Messina C, Girlanda P (2007) Motor cortex abnormalities in amyotrophic lateral sclerosis with transcranial direct-current stimulation. *MUSCLE NERVE*, 35(5): 620-4.
44. Reichmann H, Ehret R, Happe S, Junghans S, Klein W, Kupsch A, Oehlwein C, Schönberger B (2007) Kardiale Fibrosen unter Dopaminagonisten. Was gibt es Neues? *AKTUEL NEUROL*, 34(Suppl 1): S21-S24.
45. Rhode AM, Hösing VG, Happe S, Biehl K, Young P, Evers S (2007) Comorbidity of migraine and restless legs syndrome--a case-control study. *CEPHALALGIA*, 27(11): 1255-60.

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46. Schindehütte J, Trenkwalder C (2007) Treatment of drug-induced psychosis in Parkinson's disease with ziprasidone can induce severe dose-dependent off-periods and pathological laughing. *CLIN NEUROL NEUROSUR*, 109(2): 188-91.
47. Sommer M, Bachmann CG, Liebetanz KM, Schindehütte J, Tings T, Paulus W (2007) Pregabalin in restless legs syndrome with and without neuropathic pain. *ACTA NEUROL SCAND*, 115(5): 347-50.
48. Steinig J, Klösch G, Sauter C, Zeithofer J, Happe S (2007) Actigraphy in irregular sleep-wake rhythm. *SLEEP MED*, 8(2): 184-5.
49. Then Bergh F, Kümpfel T, Yassouridis A, Lechner C, Holsboer F, Trenkwalder C (2007) Acute and chronic neuroendocrine effects of interferon-beta 1a in multiple sclerosis. *CLIN ENDOCRINOL*, 66(2): 295-303.
50. Tings T, Nitsche MA, Paulus W (2007) Kritische Stellungnahme zur Datenlage und zum Indikationsspektrum von intravenöser Valproinsäure. *Epileptologie*, 20: 120-124.
51. Trenkwalder C, Paulus W (2007) Cognition and dementia. *PARKINSONISM RELAT D*, 13: S87-S88.
52. Trenkwalder C, Benes H, Grote L, Happe S, Högl B, Mathis J, Saletu-Zyhlarz GM, Kohlen R, CALDIR SG (2007) Cabergoline compared to levodopa in the treatment of patients with severe restless legs syndrome: results from a multi-center, randomized, active controlled trial. *MOVEMENT DISORD*, 22(5): 696-703.
53. Trenkwalder C, Kohlen R, Allen RP, Benes H, Ferni-Strambi L, Garcia-Borreguero D, Hadjigeorgiou GM, Happe S, Högl B, Hornyak M, Klein C, Nass A, Montagna P, Oertel WH, Keeffe S O, Paulus W, Poewe W, Provini F, Pramstaller PP, Sieminski M, Sonka K, Stiasny-Kolster K, de Weerd A, Wetter TC, Winkelmann J (2007) Clinical trials in restless legs syndrome. Recommendations of the European RLS Study Group. *MOVEMENT DISORD*, 22(Suppl 18): 495-504.
54. Varga ET, Elif K, Antal A, Zimmer M, Harza I, Paulus W, Kovács G (2007) Cathodal transcranial direct current stimulation over the parietal cortex modifies facial gender adaptation. *Ideggogy Sz*, 60(11-12): 474-9.
55. von Lewinski F, Werner C, Jörn T, Mohr A, Sixel-Döring F, Trenkwalder C (2007) T2*-weighted MRI in diagnosis of multiple system atrophy. A practical approach for clinicians. *J NEUROL*, 254(9): 1184-8.
56. Winkelmann J, Polo O, Provini F, Nevsimalova S, Kemlink D, Sonka K, Högl B, Poewe W, Stiasny-Kolster K, Oertel W, de Weerd A, Ferini Strambi L, Zucconi M, Pramstaller PP, Arnulf I, Trenkwalder C, Klein C, Hadjigeorgio GM, Happe S, Rye D, Montana P (2007) Genetics of restless legs syndrome (RLS): State-of-the-art and future directions. *MOVEMENT DISORD*, 22Suppl18): 449-458.
57. Winkelmann J, Schormair B, Lichtner P, Ripke S, Xiong L, Jalilzadeh S, Fulda S, Pütz B, Eckstein G, Hauk S, Trenkwalder C, Zimprich A, Stiasny-Kolster K, Oertel W, Bachmann CG, Paulus W, Peglau I, Eisensehr I, Montplaisir J, Turecki G, Rouleau G, Gieger C, Illig T, Wichmann HE, Holsboer F, Müller-Myhsok B, Meitinger T (2007) Genome-wide association study of restless legs syndrome identifies common variants in three genomic regions. *NAT GENET*, 39(8): 1000-6.
58. Wuttke TV, Jurkat-Rott K, Paulus W, Garncarek M, Lehmann-Horn F, Lerche H (2007) Peripheral nerve hyperexcitability due to dominant-negative KCNQ2 mutations. *NEUROLOGY*, 69(22): 2045-53.
59. Zembrzycki A, Griesel G, Stoykova A, Mansouri A (2007) Genetic interplay between the transcription factors Sp8 and Emx2 in the patterning of the forebrain. *Neural Develop*, 2: 8.

Buchbeiträge

1. Antal A, Lang N, Paulus W (2007) Clinical and Research Applications of Transcranial Magnetic and Direct Current Stimulation in Migraine. In: Amadeo O, Fernandez (Hg.) *Progress in Migraine Research*. Nova Science Publishers Verlag, New York, 31-44.
2. Bodis Wollner I, Antal A, Bandini F (2007) Visual evoked potentials. In: Don M., Burkard R., Eggermont J. (Hg.) *Auditory Evoked Potentials: Basic Principles and Clinical Application*. Lippincott, Williams & Wilkins Verlag, Philadelphia, 599 -612.
3. Lang N, Siebner HR (2007) Repetitive transkranielle Magnetstimulation. In: Hartwig Siebner - Ulf Ziemann (Hg.) *Das TMS-Buch Transkranielle Magnetstimulation*. Springer Verlag, Heidelberg, 499-511.
4. Lee JP, Schmidt NO, Baier PC, Mueller FJ, Snyder EY (2007) Stem Cell Transplantation in the Brain. In: Lorning J, Wesselschmidt R, Schwartz P (Hg.) *Human stem cell manual - A laboratory guide*. Academic Press, Elsevier Science, Amsterdam, Boston, Heidelberg, London, New York, Oxford, Paris, San Diego, San Francisco, Singapore, Sydney, Tokyo,, 332-350.
5. Nitsche MA, Paulus W (2007) Transkranielle Gleichstromstimulation. In: Hartwig Siebner - Ulf Ziemann (Hg.) *Das TMS-Buch Transkranielle Magnetstimulation*. Springer Verlag, Heidelberg, 533-542.
6. Nitsche MA, Antal A, Liebetanz D, Lang N, Tergau F, Paulus W (2007) Induction and modulation of neuroplasticity by transcranial direct stimulation (tDCS). In: Macolin & F Padberg (Hg.) *Advances in Biological Psychiatry* 23. Karger Verlag, Freiburg, 172-186.
7. Paulus W, Siebner HR (2007) Sicherheitsaspekte und Anwendungsrichtlinien. In: Hartwig Siebner-Ulf Ziemann (Hg.) *Das TMS-Buch Transkranielle Magnetstimulation*. Springer Verlag, Heidelberg, 47-56.

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8. Sommer M, Siebner HR (2007) Bewegungsstörungen. In: Hartwig Siebner - Ulf Ziemann (Hg.) Das TMS-Buch Transkranielle Magnetstimulation. Springer Verlag, Heidelberg, 583-591.
9. Tergau F, Werhahn KJ (2007) Epilepsie. In: Hartwig Siebner -Ulf Ziemann (Hg.) Das TMS-Buch Transkranielle Magnetstimulation. Springer Verlag, Heidelberg, 577-582.

Habilitationen

1. Liebetanz D, Klinische und tierexperimentelle Untersuchungen zur Wirkungsweise und therapeutischen Wirksamkeit der transkraniellen Gleichstromstimulation. Habilitation Universität Göttingen 2007.

Medizinische Dissertationen

1. Dömkes S, Dr. med., Experimentelle Studien zur Selektivitätserhöhung der transkraniellen Gleichstromstimulation (tDCS). Dissertation Universität Göttingen 2007.
2. Michailov G, Dr. med., Neuregulin-1 reguliert die Myelindicke im peripheren Nervensystem. Dissertation Universität Göttingen 2007.
3. Reiber H, Dr. med., Untersuchungen zur zirkadianen Rhythmik der Exzitabilität des humanen Motorkortex mittels transkranieller Magnetstimulation. Dissertation Universität Göttingen 2007.
4. Temme J, Dr. med., Veränderungen visueller Wahrnehmung bei Migränepatienten. Dissertation Universität Göttingen 2007.