

Abteilung "Klinische Neurophysiologie"

Journalbeiträge

1. Amaya F, Paulus W, Treue S, Liebetanz D (2010) Transcranial magnetic stimulation and PAS-induced cortical neuroplasticity in the awake rhesus monkey. *Clin Neurophysiol (Internet-Ausgabe)*, 121(12): 2143-51.
2. Ambrus GG, Antal A, Paulus W (2010) Comparing cutaneous perception induced by electrical stimulation using rectangular and round shaped electrodes. *Clin Neurophysiol (Internet-Ausgabe)*, 122(4): 803-7.
3. Ambrus GG, Paulus W, Antal A (2010) Cutaneous perception thresholds of electrical stimulation methods: comparison of tDCS and tRNS. *Clin Neurophysiol (Internet-Ausgabe)*, 121(11): 1908-14.
4. Antal A, Paulus W (2010) [Transcranial magnetic and direct current stimulation in the therapy of pain]. *SCHMERZ*, 24(2): 161-6.
5. Antal A, Paulus W (2010) A case of refractory orofacial pain treated by transcranial direct current stimulation applied over hand motor area in combination with NMDA agonist drug intake. *BRAIN STIMUL*, 4(2): 117-21.
6. Antal A, Paulus W (2010) Effects of transcranial theta-burst stimulation on acute pain perception. *RESTOR NEUROL NEUROS*, 28(4): 477-84.
7. Antal A, Chaieb L, Moliadze V, Monte-Silva K, Poreisz C, Thirugnanasambandam N, Nitsche MA, Shoukier M, Ludwig H, Paulus W (2010) Brain-derived neurotrophic factor (BDNF) gene polymorphisms shape cortical plasticity in humans. *BRAIN STIMUL*, 3(4): 230-7.
8. Antal A, Polania R, Saller K, Morawetz C, Schmidt-Samoa C, Baudewig J, Paulus W, Dechent P (2010) Differential activation of the middle-temporal complex to visual stimulation in migraineurs. *CEPHALALGIA*, 31(3): 338-45.
9. Antal A, Terney D, Kühnl S, Paulus W (2010) Anodal transcranial direct current stimulation of the motor cortex ameliorates chronic pain and reduces short intracortical inhibition. *J Pain Symptom Manag (Internet-Ausgabe)*, 39(5): 890-903.
10. Bachmann CG, Nitsche MA, Pflingsten M, Gersdorff N, Harder C, Baier PC, Antal A, Treede RD, Paulus W, Happe S (2010) Diurnal time course of heat pain perception in healthy humans. *NEUROSCI LETT*, 489(2): 122-5.
11. Bachmann CG, Muschinsky S, Nitsche MA, Rolke R, Magerl W, Treede RD, Paulus W, Happe S (2010) Transcranial direct current stimulation of the motor cortex induces distinct changes in thermal and mechanical sensory percepts. *Clin Neurophysiol (Internet-Ausgabe)*, 121(12): 2083-9.
12. Bachmann CG, Rolke R, Scheidt U, Stadelmann C, Sommer M, Pavlakovic G, Happe S, Treede RD, Paulus W (2010) Thermal hypoaesthesia differentiates secondary restless legs syndrome associated with small fibre neuropathy from primary restless legs syndrome. *Brain (Internet-Ausgabe)*, 133(Pt 3): 762-70.
13. Bell GS, Sinha S, Tisi Jd, Stephani C, Scott CA, Harkness WF, McEvoy AW, Peacock JL, Walker MC, Smith SJ, Duncan JS, Sander JW (2010) Premature mortality in refractory partial epilepsy: does surgical treatment make a difference? *J Neurol Neurosurg Ps (Internet-Ausgabe)*, 81(7): 716-8.
14. Bibl M, Esselmann H, Lewczuk P, Trenkwalder C, Otto M, Kornhuber J, Wiltfang J, Mollenhauer B (2010) Combined Analysis of CSF Tau, A 42, A 1-42% and A 1-40% in Alzheimer's Disease, Dementia with Lewy Bodies and Parkinson's Disease Dementia. *Int J Alzheimers Dis*, 2010: Artikel ID 761571.
15. Bodden ME, Mollenhauer B, Trenkwalder C, Cabanel N, Eggert KM, Unger MM, Oertel WH, Kessler J, Dodel R, Kalbe E (2010) Affective and cognitive Theory of Mind in patients with parkinson's disease. *Parkinsonism Relat D (Internet-Ausgabe)*, 16(7): 466-70.
16. Boentert M, Dziewas R, Heidbreder A, Happe S, Kleffner I, Evers S, Young P (2010) Fatigue, reduced sleep quality and restless legs syndrome in Charcot-Marie-Tooth disease: a web-based survey. *J Neurol (Internet-Ausgabe)*, 257(4): 646-52.
17. Buttkus F, Baur V, Jabusch HC, Paulus W, Nitsche MA, Altenmüller E (2010) Retraining and transcranial direct current stimulation in musician's dystonia - a case report. *Movement Disord (Internet-Ausgabe)*, 25(11): 1758-60.
18. Buttkus F, Weidenmüller M, Schneider S, Jabusch HC, Nitsche MA, Paulus W, Altenmüller E (2010) Failure of cathodal direct current stimulation to improve fine motor control in musician's dystonia. *Movement Disord (Internet-Ausgabe)*, 25(3): 389-94.
19. Collombat P, Xu X, Heimberg H, Mansouri A (2010) Pancreatic beta-cells: from generation to regeneration. *SEMIN CELL DEV BIOL*, 21(8): 838-44.
20. Dodel R, Happe S, Peglau I, Mayer G, Wasem J, Reese JP, Giani G, Geraedts M, Trenkwalder C, Oertel WH, Stiasny-Kolster K (2010) Health economic burden of patients with restless legs syndrome in a german ambulatory setting. *PHARMACOECONOMICS*, 28(5): 381-93.

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21. Edelmuth RCL, Nitsche MA, Battistella L, Fregni F (2010) Why do some promising brain-stimulation devices fail the next steps of clinical development? *Expert Rev Med Devic (Internet-Ausgabe)*, 7(1): 67-97.
22. Fadini T, Matthaues L, Rothkegel H, Sommer M, Tergau F, Schweikard A, Paulus W, Nitsche M (2010) Reply to " Motor evoked potential latency, motor threshold and electric field measurements as indices of transcranial magnetic stimulation depth". *CLIN NEUROPHYSIOL*, 121(2): 258-259.
23. Focke NK, Trenkwalder C (2010) Idiopathic REM sleep behavior disorder and Parkinson's disease--two sides of one coin? *SLEEP*, 33(6): 731-2.
24. Fricke K, Seeber AA, Thirugnanasambandam N, Paulus W, Nitsche MA, Rothwell JC (2010) Time course of the induction of homeostatic plasticity generated by repeated transcranial direct current stimulation of the human motor cortex. *J NEUROPHYSIOL*, 105(3): 1141-9.
25. Gamboa OL, Antal A, Moliadze V, Paulus W (2010) Simply longer is not better: reversal of theta burst after-effect with prolonged stimulation. *Exp Brain Res (Internet-Ausgabe)*, 204(2): 181-7.
26. Garcia-Borreguero D, Allen R, Kohnen R, Benes H, Winkelmann J, Högl B, Ferini-Strambi L, Zucconi M, Trenkwalder C (2010) Loss of response during long-term treatment of restless legs syndrome: guidelines approved by the International Restless Legs Syndrome Study Group for use in clinical trials. *SLEEP MED*, 11(9): 956-7.
27. Godau J, Spinnler N, Wevers AK, Trenkwalder C, Berg D (2010) Poor effect of guideline based treatment of restless legs syndrome in clinical practice. *J Neurol Neurosur Ps (Internet-Ausgabe)*, 81(12): 1390-5.
28. Högl B, García-Borreguero D, Kohnen R, Ferini-Strambi L, Hadjigeorgiou G, Hornyak M, de Weerd A, Happe S, Stiasny-Kolster K, Gschliesser V, Egatz R, Frauscher B, Benes H, Trenkwalder C, Hening WA, Allen RP (2010) Progressive development of augmentation during long-term treatment with levodopa in restless legs syndrome: results of a prospective multi-center study. *J Neurol (Internet-Ausgabe)*, 257(2): 230-7.
29. Högl B, Oertel WH, Stiasny-Kolster K, Geisler P, Bene H, García-Borreguero D, Trenkwalder C, Poewe W, Schollmayer E, Kohnen R (2010) Treatment of moderate to severe restless legs syndrome: 2-year safety and efficacy of rotigotine transdermal patch. *BMC NEUROL*, 10: 86.
30. Kanai R, Paulus W, Walsh V (2010) Transcranial alternating current stimulation (tACS) modulates cortical excitability as assessed by TMS-induced phosphene thresholds. *Clin Neurophysiol (Internet-Ausgabe)*, 121(9): 1551-4.
31. Kantelhardt SR, Fadini T, Finke M, Kallenberg K, Siemerikus J, Bockermann V, Matthaues L, Paulus W, Schweikard A, Rohde V, Giese A (2010) Robot-assisted image-guided transcranial magnetic stimulation for somatotopic mapping of the motor cortex: a clinical pilot study. *Acta Neurochir (Internet-Ausgabe)*, 152(2): 333-43.
32. Kordowich S, Mansouri A, Collombat P (2010) Reprogramming into pancreatic endocrine cells based on developmental cues. *MOL CELL ENDOCRINOL*, 315(1-2): 11-8.
33. Kutschenko A, Nitsche MA, Sommer M, Gileles E, Paulus W (2010) [Seizure aggravation by valproate in primary generalized epilepsy.]. *NERVENARZT*, 82(2): 226-230.
34. Kutschenko A, Liebetanz D (2010) Meningioma causing gabapentin-responsive secondary SUNCT syndrome. *J HEADACHE PAIN*, 11(4): 359-61.
35. Moliadze V, Antal A, Paulus W (2010) Boosting brain excitability by transcranial high frequency stimulation in the ripple range. *J Physiol-London (Internet-Ausgabe)*, 588(Pt 24): 4891-904.
36. Moliadze V, Antal A, Paulus W (2010) Electrode-distance dependent after-effects of transcranial direct and random noise stimulation with extracephalic reference electrodes. *Clin Neurophysiol (Internet-Ausgabe)*, 121(12): 2165-71.
37. Mollenhauer B, Förstl H, Deuschl G, Storch A, Oertel W, Trenkwalder C (2010) Lewy body and parkinsonian dementia: common, but often misdiagnosed conditions. *DTSCH ARZTEBL INT*, 107(39): 684-91.
38. Monte-Silva K, Kuo MF, Liebetanz D, Paulus W, Nitsche MA (2010) Shaping the optimal repetition interval for cathodal transcranial direct current stimulation (tDCS). *J NEUROPHYSIOL*, 103(4): 1735-40.
39. Monte-Silva K, Liebetanz D, Grundey J, Paulus W, Nitsche MA (2010) Dosage-dependent non-linear effect of L-dopa on human motor cortex plasticity. *J Physiol-London (Internet-Ausgabe)*, 588(Pt 18): 3415-24.
40. Neef NE, Jung K, Rothkegel H, Pollok B, von Gudenberg AW, Paulus W, Sommer M (2010) Right-shift for non-speech motor processing in adults who stutter. *CORTEXX*, -: -.
41. Ness T, Paulus W (2010) [Eye and pregnancy.]. *OPHTHALMOLOGE*, 107(9): 863-72; quiz 873.
42. Nitsche MA, Jakoubkova M, Thirugnanasambandam N, Schmalfluss L, Hullemann S, Sonka K, Paulus W, Trenkwalder C, Happe S (2010) Contribution of the premotor cortex to consolidation of motor sequence learning in humans during sleep. *J NEUROPHYSIOL*, 104(5): 2603-14.
43. Nitsche MA, Monte-Silva K, Kuo MF, Paulus W (2010) Dopaminergic impact on cortical excitability in humans. *REV NEUROSCI*, 21(4): 289-98.

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44. Oertel WH, Benes H, Garcia-Borreguero D, Högl B, Poewe W, Montagna P, Ferini-Strambi L, Sixel-Döring F, Trenkwalder C, Partinen M, Saletu B, Polo O, Fichtner A, Schollmayer E, Kohnen R, Cassel W, Penzel T, Stiasny-Kolster K (2010) Rotigotine transdermal patch in moderate to severe idiopathic restless legs syndrome: a randomized, placebo-controlled polysomnographic study. *SLEEP MED*, 11(9): 848-56.
45. Ohrndorf S, Naumann L, Grundey J, Scheel T, Scheel AK, Werner C, Backhaus M (2010) Is musculoskeletal ultrasonography an operator-dependent method or a fast and reliably teachable diagnostic tool? Interreader agreements of three ultrasonographers with different training levels. *Int J Rheumatol*, 2010: 164518.
46. Paulus W (2010) On the difficulties of separating retinal from cortical origins of phosphenes when using transcranial alternating current stimulation (tACS). *Clin Neurophysiol (Internet-Ausgabe)*, 121(7): 987-91.
47. Polanía R, Nitsche MA, Paulus W (2010) Modulating functional connectivity patterns and topological functional organization of the human brain with transcranial direct current stimulation. *Hum Brain Mapp (Internet-Ausgabe)*, -: -.
48. Reess T, Steinig J, Lanz M, Dempewolf S, Bunten S, Happe S (2010) Perception of sleep. Subjective vs. objective sleep parameters in patients with insomnia, hyperinsomnia, parasomnia, and sleep-related movement disorders. *Somnologie*, 14: 253-259.
49. Rothkegel H, Sommer M, Paulus W (2010) Breaks during 5Hz rTMS are essential for facilitatory after effects. *Clin Neurophysiol (Internet-Ausgabe)*, 121(3): 426-30.
50. Rothkegel H, Sommer M, Paulus W, Lang N (2010) Impact of pulse duration in single pulse TMS. *Clin Neurophysiol (Internet-Ausgabe)*, 121(11): 1915-21.
51. Sharma JC, Bachmann CG, Linazasoro G (2010) Classifying risk factors for dyskinesia in Parkinson's disease. *Parkinsonism Relat D (Internet-Ausgabe)*, 16(8): 490-7.
52. Stephani C, Trenkwalder C (2010) Rhabdomyolysis after low-dose quetiapine in a patient with Parkinson's disease with drug-induced psychosis: a case report. *Movement Disord (Internet-Ausgabe)*, 25(6): 782-3.
53. Thirugnanasambandam N, Grundey J, Adam K, Drees A, Skwirba AC, Lang N, Paulus W, Nitsche MA (2010) Nicotinic impact on focal and non-focal neuroplasticity induced by non-invasive brain stimulation in non-smoking humans. *NEUROPSYCHOPHARMACOL*, 36(4): 879-86.
54. Trenkwalder C, Paulus W (2010) Restless legs syndrome: pathophysiology, clinical presentation and management. *NAT REV NEUROL*, 6(6): 337-46.
55. Werner A, Bayer A, Schwarz G, Zrenner E, Paulus W (2010) Effects of ageing on postreceptoral short-wavelength gain control: transient tritanopia increases with age. *VISION RES*, 50(17): 1641-8.
56. Yogarajah M, Focke NK, Bonelli SB, Thompson P, Vollmar C, McEvoy AW, Alexander DC, Symms MR, Koepp MJ, Duncan JS (2010) The structural plasticity of white matter networks following anterior temporal lobe resection. *Brain (Internet-Ausgabe)*, 133(Pt 8): 2348-64.

Buchbeiträge

1. Antal A, Paulus W, Nitsche M (2010) Principle and mechanisms of transcranial Direct Current Stimulation (tDCS). In: Knotkova H, Cruciani RA, Merrick J (eds) (Hg.) *Pain. Brain stimulation in the treatment of pain*. Nova Science Publishers, Inc., USA, 141-154.
2. Happe S (2010) Störungen des Schlaf-Wach-Zyklus. In: Dodel RC, Klockgether T (Hg.) *Roter Faden Neurologie*. Wissenschaftliche Verlagsgesellschaft mbH, Stuttgart, 669-693.

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Habilitationen

1. Sereda MW, Experimentelle Therapien der Charcot-Marie-Tooth-Erkrankung 1A (CMT1A). Habilitation Universität Göttingen 2010.

Medizinische Dissertationen

1. Bergmann I, Dr. med., Verstärkung des antinozizeptiven Effekts der kathodalen transkraniellen Gleichstromstimulation durch den Dopaminagonisten Pergolid. Dissertation Universität Göttingen 2010.
2. Fritzsche G, Dr. med., Einfluss verschiedener transkranieller Stimulationsverfahren auf die kortikale Exitabilität. Dissertation Georg-August-Universität Göttingen 2010.
3. Tewes S, Dr. med., Auswirkungen der Stimulation des menschlichen Motorkortex mit randomisiertem Strom auf die kortikospinale Erregbarkeit. Dissertation Universität Göttingen 2010.
4. Tiemann H, Dr. med., Messung des reaktiven Anstiegs der Muskeldurchblutung nach isometrischer Belastung am M. quadriceps femoris mittels Farbduplexsonographie. Dissertation Universität Göttingen 2010.
5. Weidenmüller M, Dr. med., Kathodale transkranielle Gleichstromstimulation (tDCS) bei Gitarristen mit fokaler Dystonie. Dissertation Georg-August-Universität Göttingen 2010.
6. Weidenmüller M, Dr. med., Kathodale transkranielle Gleichstromstimulation (tDCS) bei Gitarristen mit fokaler Dystonie. Dissertation Universität Göttingen 2010.

Naturwiss. u.a. nichtmed. Diss.

1. Rothkegel H, Dr. rer. nat., Inducing neuroplasticity in the human motor system by transcranial magnetic stimulation: from pathophysiology to a therapeutic option in movement disorders. Dissertation Georg-August-Universität Göttingen 2010.