

Journalbeiträge

1. Allen RP, Picchietti DL, Garcia-Borreguero D, Ondo WG, Walters AS, Winkelman JW, Zucconi M, Ferri R, Trenkwalder C, Lee HB, International Restless Legs Syndrome Study Group (2014) Restless legs syndrome/Willis-Ekbom disease diagnostic criteria: updated International Restless Legs Syndrome Study Group (IRLSSG) consensus criteria--history, rationale, description, and significance. *SLEEP MED* 15(8): 860-73, doi: 10.1016/j.sleep.2014.03.025
2. Antal A, Ambrus GG, Chaieb L (2014) The impact of electrical stimulation techniques on behavior. *WIRES COGN SCI* 5: 649-659
3. Antal A, Chaieb C, Moliadze V, Bourakkadi Zarrouki D, Shoukier M, Paulus W (2014) BDNF gene polymorphisms and motor cortical plasticity in healthy humans: when should we consider it? *Journal of Neuroscience and Rehabilitation* 1(2): SS0004
4. Antal A, Ambrus GG, Chaieb L (2014) Toward unraveling reading-related modulations of tDCS-induced neuroplasticity in the human visual cortex. *FRONT PSYCHOL* 5: 642, doi: 10.3389/fpsyg.2014.00642
5. Antal A, Fischer T, Saiote C, Miller R, Chaieb L, Wang DJJ, Plessow F, Paulus W, Kirschbaum C (2014) Transcranial electrical stimulation modifies the neuronal response to psychosocial stress exposure. *HUM BRAIN MAPP* 35(8): 3750-9, doi: 10.1002/hbm.22434
6. Avenali L, Narayanan P, Rouwette T, Cervellini I, Sereda M, Gomez-Varela D, Schmidt M (2014) Annexin A2 regulates TRPA1-dependent nociception. *J NEUROSCI* 34(44): 14506-16, doi: 10.1523/JNEUROSCI.1801-14.2014
7. Brunoni AR, Machado-Vieira R, Zarate CA, Vieira ELM, Vanderhasselt MA, Nitsche MA, Valiengo L, Benseñor IM, Lotufo PA, Gattaz WF, Teixeira AL (2014) BDNF plasma levels after antidepressant treatment with sertraline and transcranial direct current stimulation: Results from a factorial, randomized, sham-controlled trial. *EUR NEUROPSYCHOPHARM* 24(7): 1144-51, doi: 10.1016/j.euroeuro.2014.03.006
8. Chaieb L, Antal A, Ambrus GG, Paulus W (2014) Brain-derived neurotrophic factor: its impact upon neuroplasticity and neuroplasticity inducing transcranial brain stimulation protocols. *NEUROGENETICS* 15(1): 1-11, doi: 10.1007/s10048-014-0393-1
9. Chaieb L, Antal A, Pisoni A, Saiote C, Opitz A, Ambrus GG, Focke N, Paulus W (2014) Safety of 5 kHz tACS. *BRAIN STIMUL* 7(1): 92-6, doi: 10.1016/j.brs.2013.08.004
10. Chumakov I, Milet A, Cholet N, Primas G, Boucard A, Pereira Y, Graudens E, Mandel J, Laffaire J, Foucquier J, Glibert F, Bertrand V, Nave KA, Sereda MW, Vial E, Guedj M, Hajj R, Nabirochkin S, Cohen D (2014) Polytherapy with a combination of three repurposed drugs (PXT3003) down-regulates Pmp22 over-expression and improves myelination, axonal and functional parameters in models of CMT1A neuropathy. *ORPHANET J RARE DIS* 9(1): 201, doi: 10.1186/s13023-014-0201-x
11. Conti CL, Moscon JA, Fregnani F, Nitsche MA, Nakamura-Palacios EM (2014) Cognitive related electrophysiological changes induced by non-invasive cortical electrical stimulation in crack-cocaine addiction. *INT J NEUROPSYCHOPH* 17(9): 1465-75, doi: 10.1017/S1461145714000522
12. Dutta A, Boulenouar RS, Guiraud D, Nitsche MA (2014) Delineating the effects of anodal transcranial direct current stimulation on myoelectric control based on slow cortical potentials. *Conf Proc IEEE Eng Med Biol Soc* 2014: 3094-7, doi: 10.1109/EMBC.2014.6944277
13. Dutta A, Lahiri U, Das A, Nitsche MA, Guiraud D (2014) Post-stroke balance rehabilitation under multi-level electrotherapy: a conceptual review. *Front Neurosci* 8: 403, doi: 10.3389/fnins.2014.00403
14. Dutta A, Paulus W, Nitsche MA (2014) Facilitating myoelectric-control with transcranial direct current stimulation: a preliminary study in healthy humans. *J NEUROENG REHABIL* 11(1): 13, doi: 10.1186/1743-0003-11-13
15. Fledrich R, Stassart RM, Klink A, Rasch LM, Prukop T, Haag L, Czesnik D, Kungl T, Abdelaal TAM, Keric N, Stadelmann C, Brück W, Nave KA, Sereda MW (2014) Soluble neuregulin-1 modulates disease pathogenesis in rodent models of Charcot-Marie-Tooth disease 1A. *NAT MED* 20(9): 1055-61, doi: 10.1038/nm.3664
16. Focke NK, Diederich C, Helms G, Nitsche MA, Lerche H, Paulus W (2014) Idiopathic-generalized epilepsy shows profound white matter diffusion-tensor imaging alterations. *HUM BRAIN MAPP* 35(7): 3332-42
17. Focke NK, Trost S, Paulus W, Falkai P, Gruber O (2014) Do manual and voxel-based morphometry measure the same? A proof of concept study. *Front Psychiatry* 5: 39, doi: 10.3389/fpsyg.2014.00039
18. Fresnoza S, Paulus W, Nitsche MA, Kuo MF (2014) Nonlinear dose-dependent impact of d1 receptor activation on motor cortex plasticity in humans. *J NEUROSCI* 34(7): 2744-53, doi: 10.1523/JNEUROSCI.3655-13.2014
19. Fresnoza S, Stiksrød E, Klinker F, Liebetanz D, Paulus W, Kuo MF, Nitsche MA (2014) Dosage-dependent effect of dopamine d2 receptor activation on motor cortex plasticity in humans. *J NEUROSCI* 34(32): 10701-9, doi: 10.1523/JNEUROSCI.0832-14.2014

20. Furuya S, Klaus M, Nitsche MA, Paulus W, Altenmüller E (2014) Ceiling effects prevent further improvement of transcranial stimulation in skilled musicians. *J NEUROSCI* 34(41): 13834-9, doi: 10.1523/JNEUROSCI.1170-14.2014
21. Furuya S, Nitsche MA, Paulus W, Altenmüller E (2014) Surmounting retraining limits in Musicians' dystonia by transcranial stimulation. *ANN NEUROL* 75(5): 700-7, doi: 10.1002/ana.24151
22. Gomez-Mancilla B, Brand R, Jürgens TP, Göbel H, Sommer C, Straube A, Evers S, Sommer M, Campos V, Kalkman HO, Hariy S, Pezous N, Johns D, Diener HC, BGG492 Study Group (2014) Randomized, multicenter trial to assess the efficacy, safety and tolerability of a single dose of a novel AMPA receptor antagonist BGG492 for the treatment of acute migraine attacks. *CEPHALALGIA* 34(2): 103-13, doi: 10.1177/033102413499648
23. Haro E, Delgado I, Junco M, Yamada Y, Mansouri A, Oberg KC, Ros MA (2014) Sp6 and Sp8 Transcription Factors Control AER Formation and Dorsal-Ventral Patterning in Limb Development. *PLOS GENET* 10(8): e1004468, doi: 10.1371/journal.pgen.1004468
24. Heide AC, Winkler T, Helms HJ, Nitsche MA, Trenkwalder C, Paulus W, Bachmann CG (2014) Effects of transcutaneous spinal direct current stimulation in idiopathic restless legs patients. *BRAIN STIMUL* 7(5): 636-42, doi: 10.1016/j.brs.2014.06.008
25. Hornyak M, Scholz H, Kohnen R, Bengel J, Kassubek J, Trenkwalder C (2014) What treatment works best for restless legs syndrome? Meta-analyses of dopaminergic and non-dopaminergic medications. *SLEEP MED REV* 18(2): 153-64, doi: 10.1016/j.smrv.2013.03.004
26. Jung L, Tropel P, Moal Y, Teletin M, Jeandidier E, Gayon R, Himmelsbach C, Bello F, André C, Tosch A, Mansouri A, Bruant-Rodier C, Bouillé P, Viville S (2014) ONSL and OSKM cocktails act synergistically in reprogramming human somatic cells into induced pluripotent stem cells. *MOL HUM REPROD* 20(6): 538-49, doi: 10.1093/molehr/gau012
27. Klauss J, Penido Pinheiro LC, Silva Merlo BL, Correia Santos GdA, Fregni F, Nitsche MA, Miyuki Nakamura-Palacios E (2014) A randomized controlled trial of targeted prefrontal cortex modulation with tDCS in patients with alcohol dependence. *INT J NEUROPSYCHOPH* 17(11): 1793-803, doi: 10.1017/S1461145714000984
28. Kuo MF, Paulus W, Nitsche MA (2014) Therapeutic effects of non-invasive brain stimulation with direct currents (tDCS) in neuropsychiatric diseases. *NEUROIMAGE* 85 Pt 3: 948-60, doi: 10.1016/j.neuroimage.2013.05.117
29. Laczó B, Antal A, Rothkegel H, Paulus W (2014) Increasing human leg motor cortex excitability by transcranial high frequency random noise stimulation. *RESTOR NEUROL NEUROS* 32(3): 403-10, doi: 10.3233/RNN-130367
30. Lefaucheur JP, André-Obadia N, Antal A, Ayache SS, Baeken C, Benninger DH, Cantello RM, Cincotta M, de Carvalho M, De Ridder D, Devanne H, Di Lazzaro V, Filipović SR, Hummel FC, Jääskeläinen SK, Kimiskidis VK, Koch G, Langguth B, Nyffeler T, Oliviero A, Padberg F, Poulet E, Rossi S, Rossini PM, Rothwell JC, Schönfeldt-Lecuona C, Siebner HR, Slotema CW, Stagg CJ, Valls-Sole J, Ziemann U, Paulus W, Garcia-Larrea L (2014) Evidence-based guidelines on the therapeutic use of repetitive transcranial magnetic stimulation (rTMS). *CLIN NEUROPHYSIOL* 125(11): 2150-2206, doi: 10.1016/j.clinph.2014.05.021
31. Legon W, Sato TF, Opitz A, Mueller J, Barbour A, Williams A, Tyler WJ (2014) Transcranial focused ultrasound modulates the activity of primary somatosensory cortex in humans. *NAT NEUROSCI* 17(2): 322-9, doi: 10.1038/nn.3620
32. Liao MC, Diaconu M, Monecke S, Collombat P, Timaeus C, Kuhlmann T, Paulus W, Trenkwalder C, Dressel R, Mansouri A (2014) Embryonic stem cell-derived neural progenitors as non-tumorigenic source for dopaminergic neurons. *World J Stem Cells* 6(2): 248-55, doi: 10.4252/wjsc.v6.i2.248
33. Mannil M, Solari A, Leha A, Pelayo-Negro AL, Berciano J, Schlotter-Weigel B, Walter MC, Rautenstrauss B, Schnizer TJ, Schenone A, Seeman P, Kadian C, Schreiber O, Angarita NG, Fabrizi GM, Gemignani F, Padua L, Santoro L, Quattrone A, Vita G, Calabrese D, CMT-TRIAL/CMT-TRAUK Group, Young P, Laurà M, Haberlová J, Mazanec R, Paulus W, Beissbarth T, Shy ME, Reilly MM, Pareyson D, Sereda MW (2014) Selected items from the Charcot-Marie-Tooth (CMT) Neuropathy Score and secondary clinical outcome measures serve as sensitive clinical markers of disease severity in CMT1A patients. *NEUROMUSCULAR DISORD* 24(11): 1003-17, doi: 10.1016/j.nmd.2014.06.431
34. Moliadze V, Fritzsche G, Antal A (2014) Comparing the efficacy of excitatory transcranial stimulation methods measuring motor evoked potentials. *Neural Plast* 2014: 837141, doi: 10.1155/2014/837141
35. Mueller J, Legon W, Opitz A, Sato TF, Tyler WJ (2014) Transcranial focused ultrasound modulates intrinsic and evoked EEG dynamics. *BRAIN STIMUL* 7(6): 900-8, doi: 10.1016/j.brs.2014.08.008
36. Mungee A, Kazzer P, Feeser M, Nitsche MA, Schiller D, Bajbouj M (2014) Transcranial direct current stimulation of the prefrontal cortex: a means to modulate fear memories. *NEUROREPORT* 25(7): 480-4, doi: 10.1097/WNR.0000000000000119

37. Opitz A, Legon W, Mueller J, Barbour A, Paulus W, Tyler WJ (2014) Is sham cTBS real cTBS? The effect on EEG dynamics. FRONT HUM NEUROSCI 8: 1043, doi: 10.3389/fnhum.2014.01043
38. Opitz A, Zafar N, Bockermann V, Rohde V, Paulus W (2014) Validating computationally predicted TMS stimulation areas using direct electrical stimulation in patients with brain tumors near precentral regions. Neuroimage Clin 4: 500-7, doi: 10.1016/j.nicl.2014.03.004
39. Palm U, Feichtner KB, Hasan A, Gauglitz G, Langguth B, Nitsche MA, Keeser D, Padberg F (2014) The role of contact media at the skin-electrode interface during transcranial direct current stimulation (tDCS). BRAIN STIMUL 7(5): 762-4, doi: 10.1016/j.brs.2014.06.006
40. Paulus W (2014) Transcranial brain stimulation: potential and limitations. e-Neuroforum 5: 29-36
41. Pavlova E, Kuo MF, Nitsche MA, Borg J (2014) Transcranial direct current stimulation of the premotor cortex: Effects on hand dexterity. BRAIN RES 1576: 52-62, doi: 10.1016/j.brainres.2014.06.023
42. Prukop T, Epplen DB, Nientiedt T, Wichert SP, Fledrich R, Stassart RM, Rossner MJ, Edgar JM, Werner HB, Nave KA, Sereda MW (2014) Progesterone antagonist therapy in a Pelizaeus-Merzbacher mouse model. AM J HUM GENET 94(4): 533-46, doi: 10.1016/j.ajhg.2014.03.001
43. Romero Lauro LJ, Rosanova M, Mattavelli G, Convento S, Pisoni A, Opitz A, Bolognini N, Vallar G (2014) TDCS increases cortical excitability: Direct evidence from TMS-EEG. CORTEX 58: 99-111, doi: 10.1016/j.cortex.2014.05.003
44. Rotem A, Neef A, Neef NE, Agudelo-Toro A, Rakhmiliavitch D, Paulus W, Moses E (2014) Solving the orientation specific constraints in transcranial magnetic stimulation by rotating fields. PLOS ONE 9(2): e86794, doi: 10.1371/journal.pone.0086794
45. Saiote C, Goldschmidt T, Timäus C, Steenwijk MD, Opitz A, Antal A, Paulus W, Nitsche MA (2014) Impact of transcranial direct current stimulation on fatigue in multiple sclerosis. RESTOR NEUROL NEUROS 32(3): 423-36, doi: 10.3233/RNN-130372
46. Schade S, Mollenhauer B (2014) Biomarkers in biological fluids for dementia with Lewy bodies. ALZHEIMERS RES THER 6(5-8): 72, doi: 10.1186/s13195-014-0072-3
47. Schmidt H, Elster J, Eckert I, Wiefek J, Paulus W, von Steinbuechel N, Abatih EN, Blocher J (2014) Cognitive functions after spinal tap in patients with normal pressure hydrocephalus. J NEUROL 261(12): 2344-50, doi: 10.1007/s00415-014-7489-2
48. Schulte EC, Kousi M, Tan PL, Tilch E, Knauf F, Lichtner P, Trenkwalder C, Högl B, Frauscher B, Berger K, Fietze I, Hornyak M, Oertel WH, Bachmann CG, Zimprich A, Peters A, Gieger C, Meitinger T, Müller-Myhsok B, Katsanis N, Winkelmann J (2014) Targeted resequencing and systematic in vivo functional testing identifies rare variants in MEIS1 as significant contributors to restless legs syndrome. AM J HUM GENET 95(1): 85-95, doi: 10.1016/j.ajhg.2014.06.005
49. Schulte EC, Schramm K, Schurmann C, Lichtner P, Herder C, Roden M, Gieger C, Peters A, Trenkwalder C, Högl B, Frauscher B, Berger K, Fietze I, Gross N, Stiasny-Kolster K, Oertel W, Bachmann CG, Paulus W, Zimprich A, Völzke H, Schminke U, Nauck M, Illig T, Meitinger T, Müller-Myhsok B, Prokisch H, Winkelmann J (2014) Blood cis-eQTL analysis fails to identify novel association signals among sub-threshold candidates from genome-wide association studies in restless legs syndrome. PLOS ONE 9(5): e98092, doi: 10.1371/journal.pone.0098092
50. Shamsi F, Parlato R, Collombat P, Mansouri A (2014) A genetic mouse model for progressive ablation and regeneration of insulin producing beta-cells. CELL CYCLE 13(24): 3948-57, doi: 10.4161/15384101.2014.952176
51. Shirota Y, Hewitt M, Paulus W (2014) Neuroscientists do not use non-invasive brain stimulation on themselves for neural enhancement. BRAIN STIMUL 7(4): 618-9, doi: 10.1016/j.brs.2014.01.061
52. Tönges L, Günther R, Suhr M, Jansen J, Balck A, Saal KA, Barski E, Nientiedt T, Götz AA, Koch JC, Mueller BK, Weishaupt JH, Sereda MW, Hanisch UK, Bähr M, Lingor P (2014) Rho kinase inhibition modulates microglia activation and improves survival in a model of amyotrophic lateral sclerosis. GLIA 62(2): 217-32, doi: 10.1002/glia.22601
53. Turi Z, Ambrus GG, Ho KA, Sengupta T, Paulus W, Antal A (2014) When size matters: large electrodes induce greater stimulation-related cutaneous discomfort than smaller electrodes at equivalent current density. BRAIN STIMUL 7(3): 460-7, doi: 10.1016/j.brs.2014.01.059
54. Vicario CM, Komeilipoor N, Cesari P, Rafal RD, Nitsche MA (2014) Enhanced corticobulbar excitability in chronic smokers during visual exposure to cigarette smoking cues. J PSYCHIATR NEUROSCI 39(1): 130086
55. Voss U, Holzmann R, Hobson A, Paulus W, Koppehele-Gossel J, Klimke A, Nitsche MA (2014) Induction of self awareness in dreams through frontal low current stimulation of gamma activity. NAT NEUROSCI 17(6): 810-2, doi: 10.1038/nn.3719
56. Zschüntzsch J, Jouvenal P, Zhang Y, Klinker F, Tiburcy M, Malzahn D, Liebetanz D, Brinkmeier H, Schmidt J (2014) Human immunoglobulin G for experimental treatment of Duchenne muscular dystrophy. CLIN EXP IMMUNOL 178 Suppl 1: 132-3, doi: 10.1111/cei.12541

Buchbeiträge

1. Klinker F, Liebetanz D (2014) Combined D3 Receptor / Iron Deficient Mouse Model. In: Mark LeDoux (Hrsg.) *Movement Disorders: Genetics and Models*. Elsevier, 1163-1168
2. Nitsche MA, Kuo MF, Paulus W, Antal A (2014) Transcranial direct current stimulation: Protocols and physiological mechanisms of action. In: Knotkova H, Rasche R (Hrsg.) *Textbook of Neuromodulation*. Springer, 101-112
3. Sereda MW, Fledrich R, Stassart RM (2014) Experimental Treatment of Acquired and Inherited Neuropathies. In: Parpura V, Verkhratsky A (Hrsg.) *Pathological Potential of Neuroglia*. Springer, 437-472
4. Stephani C (2014) Limbic System. In: Aminoff MJ, Daroff RB (Hrsg.) *Encyclopedia of the Neurological Sciences*. Elsevier, 897-900

Medizinische Dissertationen

1. Bonnkirch D, Dr. med. (2014) Sprachlateralisierung bei Epilepsiepatienten: Ein Vergleich der Ergebnisse funktioneller Magnetresonanztomografie (fMRI) mit denen der Diffusionstensorbildgebung (DTI). Dissertation Universität Göttingen.
2. Drees A, Dr. med. (2014) Nikotinerger Einfluss auf die durch gepaarte assoziative Stimulation ausgelöste fokale inhibitorische Neuroplastizität bei Rauchern und Nichtrauchern. Dissertation Universität Göttingen.
3. Mannil M, Dr. med. (2014) Clinical prospective study on disease variability and score generation in patients with Charcot-Marie-Tooth disease type 1A (HMSN1A). Dissertation Universität Göttingen.
4. Pantel PM, Dr. med. (2014) Differenzierung von Patienten mit typischen idiopathischen Parkinson und atypischen Parkinson-Syndromen. Dissertation Universität Göttingen.
5. Schade S, Dr. med. (2014) Vergleichende Untersuchung der Effekte schwacher transkranieller Gleichstromstimulation in Abhängigkeit von der Händigkeit der Probanden. Dissertation Universität Göttingen.
6. Weiß B, Dr. med. (2014) Tierexperimentelle Behandlungsversuche der Charcot-Marie-Tooth-Erkrankung 1A. Dissertation Universität Göttingen.

Zahnmedizinische Dissertationen

1. Linßen J, Dr. med. dent. (2014) Analyse der Auswirkungen des PPARalpha-Liganden Fenofibrat auf Abcd1-defizierte Mäuse. Dissertation Universität Göttingen.

Naturwiss. u.a. nichtmed. Diss.

1. Batsikadze G, Dr. rer. nat. (2014) Modulation of Neuroplasticity in Humans by advanced Stimulation Protocols and Neuromodulators. Dissertation Georg-August-Universität Göttingen.
2. Fledrich R, Dr. rer. nat. (2014) Der Einfluss von Neuregulin-1 auf Erkrankungen des peripheren Nervensystems. Dissertation Georg-August-Universität Göttingen.
3. Fresnoza S, Dr. rer. nat. (2014) Dopaminergic Modulation of Neuroplasticity in Humans - Contribution of Receptor Subtypes and Dosage. Dissertation Georg-August-Universität Göttingen.
4. Kungl T, Dr. rer. nat. (2014) Die Rolle von CNP im peripheren Nervensystem. Dissertation Georg-August-Universität Göttingen.
5. Opitz A, Dr. rer. nat. (2014) Development of new computational methods for non-invasive brain stimulation. Dissertation Georg-August-Universität Göttingen.
6. Saiote C, Dr. rer. nat. (2014) Combining transcranial electrical stimulation with magnetic resonance imaging in behavioural measurements in health and disease. Dissertation Georg-August-Universität Göttingen.