

Publikationsliste Nikolai H. Jung

Stand: März 2019

Originalartikel (peer reviewed, Erst- oder Letztautorschaft):

Altschuck N, Bauer C, Nehring I, Böhm H, Jakobeit M, Schröder AS, Mall V, **Jung NH** „Efficacy of prefabricated carbon-composite ankle foot orthoses for children with unilateral cerebral palsy exhibiting a drop foot pattern: non-randomized clinical trial.” *Accepted for publication in Journal of Pediatric Rehabilitation Medicine.*

Mainberger F, Langer S, Mall V, **Jung NH** Impaired synaptic plasticity in RASopathies: a mini-review. *J Neural Transm (Vienna)*. 2016 Oct;123(10):1133-8.

Jung NH, Gleich B, Gattinger N., Hoess C, Haug C, Siebner HR, Mall V, „Quadri-pulse theta burst stimulation using ultra-high frequency bursts – a new protocol to induce changes in cortico-spinal excitability in human motor cortex.” *PLoS One*. 2016 Dec 15;11(12):e0168410.

Jung NH, Brix O., Bernius P, Schroeder AS, Kluger G, Beyerlein A, Weir S, von Kries R, Narayanan U, Mall V, Berweck S. “German translation of the caregiver priorities and child health index of life with disabilities questionnaire: test-retest reliability and correlation with gross motor function in children with cerebral palsy.” *Neuropediatrics*. 2014 Oct;45(5):289-93.

Jung NH, Pereira B, Brix O, Bernius P Schroeder AS, Kluger G, Koehler T, Beyerlein A, Weir S, von Kries R, Narayanan U, Berweck S, Mall V. “Does hip displacement influence health-related quality of life in children with cerebral palsy?” *Dev Neurorehabil*. 2014 Jul 24:1-6.

Jung NH, Janzarik WG, Mainberger F, Delvendahl I, Münchau A, Biscaldi M, Bäumer T, Rauh R, Mall V. “Impaired induction of long-term potentiation-like plasticity in patients with high-functioning autism and Asperger syndrome.” *Dev Med Child Neurol*. 2013 Jan;55(1):83-9.

Jung NH, Delvendahl I, Pechmann A, Gleich B, Gattinger N, Siebner HR, Mall V. “Transcranial magnetic stimulation with a half-sine wave pulse elicits direction-specific effects in human motor cortex.” *BMC Neurosci*. 2012 Nov 5;13(1):139.

Jung NH, Heinen F, Westhoff B, Doederlein L, Reissig A, Berweck S, Linder-Lucht M, Schandelmaier S, Mall V; German Abo study group. „Hip lateralisation in children with bilateral spastic cerebral palsy

treated with botulinum toxin type A: a 2-year follow-up." *Neuropediatrics*. 2011 Feb;42(1):18-23. Epub 2011 Apr 15.

Jung NH, Delvendahl I, Kuhnke NG, Hauschke D, Stolle S, Mall V. "Navigated transcranial magnetic stimulation does not decrease the variability of motor-evoked potentials." *Brain Stimul*. 2010 Apr;3(2):87-94. Epub 2009 Oct 31.

Sonstige (Erst- und Letztautorschaft):

Jung NH, Münchau A, Mall V. „Neuronal plasticity and neuromodulation in pediatric neurology. *Nervenarzt*. 2018 Oct;89(10):1131-1139. doi: 10.1007/s00115-018-0586-1.

Co-Autorschaften (Peer reviewed articles):

Walther M, Kuhnke N, Schessl J, Delvendahl I, **Jung N**, Kreml D, Ziemann U, Mall V. "Deafferentation of neighbouring motor cortex areas does not further enhance saturated practice-dependent plasticity in healthy adults." *Clin Neurophysiol*. 2008 Apr;119(4):886-91. Epub 2008 Feb 20.

Delvendahl I, **Jung NH**, Mainberger F, Kuhnke NG, Cronjaeger M, Mall V. "Occlusion of bidirectional plasticity by preceding low-frequency stimulation in the human motor cortex." *Clin Neurophysiol*. 2010 Apr;121(4):594-602. Epub 2010 Jan 13.

Delvendahl I, Kuhnke NG, **Jung NH**, Mainberger F, Cronjaeger M, Unterrainer J, Hauschke D, Mall V. "The time course of motor cortex plasticity after spaced motor practice." *Brain Stimul*. 2011 Jul;4(3):156-64.

Reis J, Cohen LG, Pearl PL, Fritsch B, **Jung NH**, Dustin I, Theodore WH. "GABA-(B)-ergic motor Cortex Dysfunction in SSADH deficiency." *Neurology*. 2012 Jul 3;79(1):47-54.

Delvendahl I, **Jung NH**, Kuhnke NG, Ziemann U, Mall V "Plasticity of motor threshold and motor-evoked potential amplitude - A model of intrinsic and synaptic plasticity in human motor cortex?" *Brain Stimul*. 2012 Oct;5(4):586-93.

Poretti A, Mall V, Smitka M, Grunt S, Risen S, Toelle SP, Benson JE, Yoshida S, **Jung NH**, Tinschert S, Neuhann TM, Rauch A, Steinlin M, Meoded A, Huisman TA, Boltshauser E.P. "Macrocerbellum: significance and pathogenic considerations." *Cerebellum*. 2012 Dec;11(4):1026-36.

Mainberger F, Zenker M, **Jung NH**, Delvendahl I, Brandt A, Freudenberg L, Pechmann A, Heinen F, Mall V. "Impaired motor cortex plasticity in patients with Noonan syndrome." *Clin Neurophysiol*. 2013 Jun 10.

Mainberger F, **Jung NH**, Zenker M, Delvendahl I, Wahlländer-Danek U, Freudenberg L, Brandt A, Berweck S, Winkler T, Straube A, Heinen F, Granstroem S, Mautner V, Lidzba K, Mall V. "Lovastatin improves impaired synaptic plasticity and phasic alertness in patients with Neurofibromatosis Type 1". *BMC Neurol*. 2013 Oct 2;13(1):131.

Biscaldi M, Rauh R, Irion L, **Jung NH**, Mall V, Fleischhaker C, Klein C. "Deficits in motor abilities and developmental fractionation of imitation performance in high-functioning autism spectrum disorders". *Eur Child Adolesc Psychiatry*. 2013 Oct 2.

Juenger H, Kuhnke N, Braun C, Ummenhofer F, Wilke M, Walther M, Koerte I, Delvendahl I, **Jung NH**, Berweck S, Staudt M, Mall V. "Two types of exercise-induced neuroplasticity in congenital hemiparesis: a TMS, fMRI and MEG study." *Dev Med Child Neurol*. 2013 Oct;55(10):941-51.

Delvendahl I, Lindemann H, **Jung NH**, Pechmann A, Siebner HR, and Mall V. "Influence of waveform and current direction on short-interval intracortical facilitation: a paired-pulse TMS study". *Brain Stimul.* 2014 Jan-Feb;7(1):49-58.

Kuhn M, Mainberger F, Feige B, Maier JG, Mall V, **Jung NH**, Reis J, Klöppel S, Normann C, Nissen C. "State-Dependent Partial Occlusion of Cortical LTP-Like Plasticity in Major Depression". *Neuropsychopharmacology.* 2015 Oct 7. doi: 10.1038/npp.2015.310.

Sollmann N, Trepte-Freisleder F, Albers L, **Jung NH**, Mall V, Meyer B, Heinen F, Krieg SM, Landgraf MN (2016) Magnetic stimulation of the upper trapezius muscles in patients with migraine - A pilot study. *Eur J Paediatr Neurol.* 2016 Nov;20(6):888-897.

Kuhn M, Wolf E, Maier JG, Mainberger F, Feige B, Schmid H, Bürklin J, Maywald S, Mall V, **Jung NH**, Reis J, Spiegelhalder K, Klöppel S, Sterr A, Eckert A, Riemann D, Normann C, Nissen C Sleep recalibrates homeostatic and associative synaptic plasticity in the human cortex. *Nat Commun.* 2016 Aug 23;7:12455.

Gattinger N, **Jung NH**, Mall V, Gleich B "Transcranial magnetic stimulation devices for biphasic and polyphasic ultra-high frequency protocols". *Biol Eng Med*, 2018 doi: 10.15761/BEM.1000136

Sonstige (Co-Autorschaft):

Schmidt N, Siegmund M, Ziegler M, Friedmann A, Licata M, **Jung NH**, Mall V Selbstregulation fördern, Eltern-Kind-Beziehung stärken. *Ergotherapie bei Säuglingen und Kleinkindern mit frühkindlichen Regulationsstörungen.* *Ergotherapie und Rehabilitation* 2017; 56(3): 18-22

Mall V, **Jung NH**, Linder-Lucht M. "Focus on Cerebral Palsy First interdisciplinary congress of the Neuropediatric Association, the Association for Social Pediatrics and Adolescent Medicine and the Orthopedic Association – a review." *Monatsschrift Kinderheilkunde* 2009 Volume 157, Number 11, 1098-1102, DOI: 10.1007/s00112-009-2036-4.

Buchbeiträge:

Mall V., Voigt F., **Jung N.H.** (Hrsg.) „Aktuelle Fragen der Sozialpädiatrie (Band 4): Sprache, Kommunikation und Musik – aktuelle Beiträge zur Diagnostik und Therapie“, 1. Aufl., Schmidt-Römhild 2018, *im Druck*.

Mall V., Voigt F., **Jung N.H.**, Ziegler M. (Hrsg.) „Aktuelle Fragen der Sozialpädiatrie (Band 3): Frühe Entwicklung und Kommunikation – aktuelle Beiträge zu Grundlagen, Beratung und Therapie“, 1. Aufl., Schmidt-Römhild 2018, *im Druck*.

K. Limburg, **N.H. Jung**, V. Mall “Assessing normal developmental neurobiology with brain stimulation”
In: Kirton A, Gilbert DL, eds., *Pediatric Brain Stimulation: Mapping and Modulating the Developing Brain*. San Diego: Academic Press, 2016: pp 23-43

Mall V., Voigt F., **Jung N.H.** (Hrsg.) „Aktuelle Fragen der Sozialpädiatrie (Band 2): Entwicklungsstörungen und chronische Erkrankungen: Diagnose, Behandlungsplanung und Familienbegleitung“, 1. Aufl., Schmidt-Römhild 2016.

Mall V., Voigt F., **Jung N.H.** (Hrsg.) “Aktuelle Fragen der Sozialpädiatrie (Band 1): Wege zur Inklusion – Frühdiagnostik, Frühtherapie, kindliche Sozialisation”, 1. Aufl., Schmidt-Römhild 2014.

Jorch G. (Hrsg.) “Fetoneonatale Neurologie”, 1. Aufl., Thieme, 2013. Kapitel: “Zerebralpareesen”,
Volker Mall und **Nikolai H. Jung**

Costa A, Villalba E, eds., “Horizons in Neuroscience Research”. Vol. 11, January 2013, Nova Science Publishers. Chapter title: “Motor cortex: Anatomy, Functions and Injury”, Volker Mall and **Nikolai H. Jung**

Korinthenberg R., Panteliadis C.P., Hagel C. (Hrsg.) “Neuropädiatrie: Evidenzbasierte Therapie“, 2. Aufl., Urban & Fischer in Elsevier, 2012. Kapitel: “Die Zerebralpareesen”, Volker Mall, Herbert K. Graham, **Nikolai H. Jung** und Ingeborg Krägeloh-Mann