

Literaturverzeichnis zum Fachartikel "Perzeption und Propriozeption – How does the body 'feel' with the 6. Sense?" von Björn Bunzel in "praxis ergotherapie", Ausgabe 05-2022:

1. Aman Joshua E, Naveen Elangovan, I-Ling Yeh and Jürgen Konczak , The effectiveness of proprioceptive training for improving motor function: a systematic review *Front. Hum. Neurosci.*,2015 | <https://doi.org/10.3389/fnhum.2014.01075>
2. Ben-Shabat E, Matyas TA, Pell GS, Brodtmann A and Carey LM (2015) The Right Supramarginal Gyrus Is Important for Proprioception in Healthy and Stroke-Affected Participants: A Functional MRI Study. *Front. Neurol.* 6:248
3. Bosco, G., R. E. Poppele, and J. Eian. Reference frames for spinal proprioception: limb endpoint based or joint-level based? *J. Neurophysiol.* 83: 2931–2945, 2000
4. Delhaye BP, Long KH, Bensmaia SJ. Neural Basis of Touch and Proprioception in Primate Cortex. *Compr Physiol.* 2018 Sep 14; 8(4):1575-1602. doi: 10.1002/cphy.c170033. PMID: 30215864; PMCID: PMC6330897.
5. DeWitt Samuel J., MS, Ariel Ketcherside, MS, Tim M. Mc Queeny, PhD, Joseph P. Dunlop, PhD, and Francesca M. Filbey, PhD The hyper-sentient addict: an exteroception model of addiction *Am J Drug Alcohol Abuse.* 2015; 41(5): 374–381. doi:10.3109/00952990.2015.1049701.
6. Ferrell WR, Smith A. Position sense at the proximal interphalangeal joint to the human index finger. *J Physiol* 399: 49–61, 1988
7. Fleury M, Lioi G, Barillot C. and Lécuyer A. (2020) A Survey on the Use of Haptic Feedback for Brain-Computer Interfaces and Neurofeedback. *Front. Neurosci.* 14:528. doi: 10.3389/fnins.2020.0052
8. Ghaziri, J., Tucholka, A., Girard, G., Boucher, O., Houde, J. C., Descoteaux, M., ... Nguyen, D. K. (2018). Subcortical structural connectivity of insular subregions. *Scientific Reports*, 8(1), 8596. <https://doi.org/10.1038/s41598-018-26995-0>
9. García-Cordero I, Esteves S, Mikulan EP, Hesse E, Baglivo FH, Silva W, García MdC, Vaucheret ,Ciraolo C, García HS, Adolffi F, Pietto M, Herrera E, Legaz A, Manes F, García AM, Sigman M, Bekinschtein TA, Ibáñez A and Sedeño L (2017) Attention, in and Out: Scalp-Level and Intracranial EEG

Correlates of Interoception and Exteroception. *Front. Neurosci.* 11:411. doi: 10.3389/fnins.2017.00411

10. Ghez, C., Gordon, J., and Ghilardi, M. F. (1995). Impairments of reaching movements in patients without proprioception. II. Effects of visual information on accuracy. *J. Neurophysiol.* 73, 361–372. doi: 10.1152/jn.1995.73.1.361
11. Goble DJ, Lewis CA, Brown SH. Upper limb asymmetries in the utilization of proprioceptive feedback. *Exp Brain Res* (2006) 168:307–11. doi:10.1007/s00221-005-0280-y
12. Goble DJ, Lewis CA, Hurvitz EA, Brown SH. Development of upper limb proprioceptive accuracy in children and adolescents. *Hum Mov Sci* 24: 155–170, 2005
13. Goble Daniel J. , Micah B. Aaron , Seth Warschausky , Jacqueline N. Kaufman , Edward A. Hurvitz; The influence of spatial working memory on ipsilateral remembered proprioceptive matching in adults with cerebral palsy, *Exp Brain Res* (2012) 223:259–269 DOI 10.1007/s00221-012-3256-8
14. Herter, T. M., Scott, S. H., and Dukelow, S. P. (2014). Systematic changes in position sense accompany normal aging across adulthood. *J. Neuroeng. Rehabil.* 11, 43. doi:10.1186/1743-0003-11-43
15. Hillier Susan, Maarten Immink, and Dominic Thewlis, Assessing Proprioception: A Systematic Review of Possibilities *Neurorehabilitation and Neural Repair* 2015, Vol. 29(10) 933–949 DOI: 10.1177/1545968315573055
16. Kassab R and Alexandre F (2015) Integration of exteroceptive and interoceptive information within the hippocampus: a computational study. *Front. Syst. Neurosci.* 9:87. doi: 10.3389/fnsys.2015.00087
17. Khalsa SS, Adolphs R, Cameron OG, Critchley HD, Davenport PW, Feinstein JS, Feusner JD, Garfinkel SN, Lane RD, Mehling WE, Meuret AE, Nemeroff CB, Oppenheimer S, Petzschner FH, Pollatos O, Rhudy JL, Schramm LP, Simmons WK, Stein MB, Stephan KE, Van den Bergh O, Van Diest I, von Leupoldt A, Paulus MP; Interoception Summit 2016 participants. *Interoception and Mental Health: A Roadmap. Biol Psychiatry Cogn Neurosci Neuroimaging.* 2018 Jun;3(6):501-513. doi: 10.1016/j.bpsc.2017.12.004. Epub 2017 Dec 28. PMID: 29884281; PMCID: PMC6054486.

18. Kalisch T, Kattenstroth J-C, Kowalewski R, Tegenthoff M, Dinse HR (2012) Cognitive and Tactile Factors Affecting Human Haptic Performance in Later Life. *PLoS ONE* 7(1): e30420. doi:10.1371/journal.pone.0030420
19. Kitchen Nick M. ; R. Chris Miall Proprioceptive deficits in inactive older adults are not reflected in fast targeted reaching movements *Experimental Brain Research* (2019) 237:531–545 <https://doi.org/10.1007/s00221-018-5440-y>
20. Klein J, Whitsell B, Artemiadis PK and Buneo CA (2018) Perception of Arm Position in Three-Dimensional Space. *Front. Hum. Neurosci.* 12:331. doi: 10.3389/fnhum.2018.00331
21. Kokmen E, Bossemeyer RW Jr, Williams WJ. Quantitative evaluation of joint motion sensation in an aging population. *J Gerontol.* 1978; 33:62–67. [PubMed: 618968]
22. Konczak, J., Corcos, D. M., Horak, F., Poizner, H., Shapiro, M., Tuite, P., et al. (2009). Proprioception and motor control in Parkinson's disease. *J. Mot. Behav.* 41, 543–552. doi: 10.3200/35-09-002
23. Koeppe CJ, Ruser P, Kitzler H, Hummel T, Croy I. Interoceptive accuracy and its impact on neuronal responses to olfactory stimulation in the insular cortex. *Hum Brain Mapp.* 2020;41: 2898–2908. <https://doi.org/10.1002/hbm.24985>
24. Lambert, C., Simon, H., Colman, J., & Barrick, T. R. (2017). Defining thalamic nuclei and topographic connectivity gradients in vivo. *NeuroImage*, 158, 466–479. <https://doi.org/10.1016/j.neuroimage.2016.08.028>
25. Longo MR, Haggard P. An implicit body representation underlying human position sense. *Proc Natl Acad Sci USA* 107: 11727–11732, 2010.
26. Longo MR, Haggard P. An implicit body representation underlying human position sense. *Proc Natl Acad Sci USA* 107: 11727–11732, 2010.
27. Miwa T, Miwa Y, Kanda K (1995): Dynamic and static sensitivities of muscle spindle primary endings in aged rats to ramp stretch. *Neurosci Lett* 201:179–182.
28. Nevalainen Päivi, Leena Lauronen, Elina Pihko; Development of human somatosensory cortical functions – what have we learned from magnetoencephalography: a review, *Front. Hum. Neurosci.* , 17 March 2014 | <https://doi.org/10.3389/fnhum.2014.00158>

29. Proske Uwe; Simon C. Gandevia , The Proprioceptive Senses: Their Roles In Signaling Body Shape, Body Position And Movement, And Muscle Force *Physiol Rev* 92: 1651–1697, 2012
30. Proske U. The role of muscle proprioceptors in human limb position sense: a hypothesis *J. Anat.* (2015) 227, pp178–183 doi: 10.1111/joa.12289
31. Proske U. and Gandevia SC „Kinesthetic Senses” 2 *Compr. Physiol* 8:1157-1183, (2018) DOI: 10.1002/cphy.c170036
32. Riemann, Bryan & Lephart, Scott. (2002). The Sensorimotor System, Part II: The Role of Proprioception in Motor Control and Functional Joint Stability. *Journal of athletic training.* 37. 80-4.
33. Scheidt RA, Conditt MA, Secco EL, Mussa-Ivaldi FA: Interaction of visual and proprioceptive feedback during adaptation of human reaching movements. *J Neurophysiol* 2005, 93:3200–3213.
34. Shabbott BA, Sainburg RL: On-line corrections for visuomotor errors. *Exp Brain Res* 2009, 195:59–72.
35. Sainburg RL, Ghilardi MF, Poizner H, Ghez C. Control of limb dynamics in normal subjects and patients without proprioception. *J Neuro-physiol* 73: 820–835, 1995.
36. Shanie Al Jayasinghe, F Sarlegna, Robert Scheidt, Robert Sainburg. Somatosensory deafferentation reveals lateralization of proprioception-based feedforward processes for controlling posture and movement. *Current Opinion in Physiology*, Elsevier, 2020, ff10.1016/j.cophys.2020.10.005ff
37. Sherrington C. On the proprioceptive system, especially in its reflex aspects. *Brain* 29: 467–482, 1906
38. Swash M, Fox KP (1972): The effect of age on human skeletal muscle. Studies of the morphology and innervation of muscle spindles. *J Neurol Sci* 16:417–432.
39. Valdez G, Tapia JC, Kang H, Clemenson GD, Gage FH, Lichtman JW, Sanes JR (2010) Attenuation of age-related changes in mouse
40. Wang Daniel X.M., Yao Jessica , Yasar Zirek¹, Esmee M. Reijnierse¹& Andrea B. Maier Muscle mass, strength, and physical performance predicting activities of daily living: a meta-analysis *Journal of Cachexia, Sarcopenia and Muscle* 2020 ; 3-25