

Almulla, L., Al-Naib, I., Ateeq, I. S., & Althobaiti, M. (2022). Observation and motor imagery balance tasks evaluation: An fNIRS feasibility study. *Plos one*, 17(3), e0265898. <https://journals.plos.org/plosone/article?id=10.1371/journal.pone.0265898>

Lehmann, N., Kuhn, Y. A., Keller, M., Aye, N., Herold, F., Draganski, B., ... & Taubert, M. (2022). Brain Activation During Active Balancing and Its Behavioral Relevance in Younger and Older Adults: A Functional Near-Infrared Spectroscopy (fNIRS) Study. *Front. Aging Neurosci.* 14 <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8997341/>

Gentile, E., Brunetti, A., Ricci, K., Bevilacqua, V., Craighero, L., & de Tommaso, M. (2022). Movement observation activates motor cortex in fibromyalgia patients: a fNIRS study. *Scientific Reports*, 12(1), 1-14. <https://www.nature.com/articles/s41598-022-08578-2>

Hoang, I., Paire-Ficout, L., Derollepot, R., Perrey, S., Devos, H., & Ranchet, M. (2022). Increased prefrontal activity during usual walking in aging. *International Journal of Psychophysiology*. <https://www.sciencedirect.com/science/article/pii/S0167876022000198>

Hoang, I., Ranchet, M., Cheminon, M., Derollepot, R., Devos, H., Perrey, S., ... & Paire-Ficout, L. (2021). An intensive exercise-based training program reduces prefrontal activity during usual walking in patients with parkinson's disease. *Clinical Parkinsonism & Related Disorders*, 100128. <https://www.sciencedirect.com/science/article/pii/S2590112521000402>

Prôa, R., Balardin, J., de Faria, D. D., Paulo, A. M., Sato, J. R., Baltazar, C. A., ... & de Carvalho Aguiar, P. (2021). Motor Cortex Activation During Writing in Focal Upper-Limb Dystonia: An fNIRS Study. *Neurorehabilitation and Neural Repair*, 15459683211019341. <https://journals.sagepub.com/doi/abs/10.1177/15459683211019341>

Lamberti, N., Manfredini, F., Baroni, A., Crepaldi, A., Lavezzi, S., Basaglia, N., & Straudi, S. (2021). Motor Cortical Activation Assessment in Progressive Multiple Sclerosis Patients Enrolled in Gait Rehabilitation: A Secondary Analysis of the RAGTIME Trial Assisted by Functional Near-Infrared Spectroscopy. *Diagnostics*, 11(6), 1068. <https://www.mdpi.com/2075-4418/11/6/1068>

Ranchet, M., Hoang, I., Cheminon, M., Derollepot, R., Devos, H., Perrey, S., ... & Paire-Ficout, L. (2020). Changes in Prefrontal Cortical Activity During Walking and Cognitive Functions Among Patients With Parkinson's Disease. *Frontiers in Neurology*, 11, 1658. <https://www.frontiersin.org/articles/10.3389/fneur.2020.601686/full>

St George, R. J., Hinder, M. R., Puri, R., Walker, E., & Callisaya, M. L. (2020). Functional near-infrared spectroscopy reveals the compensatory potential of pre-frontal cortical activity for standing balance in young and older adults. *Neuroscience*. <https://www.sciencedirect.com/science/article/pii/S0306452220306850>

Pelicioni, P. H., Lord, S. R., Okubo, Y., Sturnieks, D. L., & Menant, J. C. (2020). People With Parkinson's Disease Exhibit Reduced Cognitive and Motor Cortical Activity When Undertaking Complex Stepping Tasks Requiring Inhibitory Control. *Neurorehabilitation and Neural Repair*, 1545968320969943. <https://journals.sagepub.com/doi/abs/10.1177/1545968320969943>

Helmich, I., Coenen, J., Henckert, S., Pardalis, E., Schupp, S., & Lausberg, H. (2020). Reduced frontopolar brain activation characterizes concussed athletes with balance deficits. *Neuroimage: clinical*, 25, 102164.

<https://www.sciencedirect.com/science/article/pii/S2213158220300036>

Y. Liu, Y. Yang, Y. Tsai, R. Wang, and C. Lu, "Brain Activation and Gait Alteration During Cognitive and Motor Dual Task Walking in Stroke—A Functional Near-Infrared Spectroscopy Study," *IEEE Transactions on Neural Systems and Rehabilitation Engineering*, vol. 26, no. 12, pp. 2416–2423, Dec. 2018. <https://ieeexplore.ieee.org/abstract/document/8509601/>

W. Wolff, M. Bieleke, A. Hirsch, C. Wienbruch, P. M. Gollwitzer, and J. Schüler, "Increase in prefrontal cortex oxygenation during static muscular endurance performance is modulated by self-regulation strategies," *Scientific Reports*, vol. 8, no. 1, p. 15756, Oct. 2018. <https://www.nature.com/articles/s41598-018-34009-2>

O. Klempfř et al., "P 024 - Near-infrared spectroscopy patterns of cortical activity during gait in Parkinson's disease patients treated with DBS STN," *Gait & Posture*, vol. 65, pp. 273–275, Sep. 2018. <https://www.sciencedirect.com/science/article/pii/S0966636218309676>

O. Seidel, D. Carius, R. Kenville, and P. Ragert, "Motor learning in a complex balance task and associated neuroplasticity: a comparison between endurance athletes and nonathletes," *Journal of Neurophysiology*, vol. 118, no. 3, pp. 1849–1860, Sep. 2017. <https://journals.physiology.org/doi/abs/10.1152/jn.00419.2017>

S. M. H. Hosseini et al., "Neural, physiological, and behavioral correlates of visuomotor cognitive load," *Scientific Reports*, vol. 7, no. 1, Dec. 2017. <https://www.nature.com/articles/s41598-017-07897-z>

K. N. de Winkel, A. Nesti, H. Ayaz, and H. H. Bülthoff, "Neural correlates of decision making on whole body yaw rotation: An fNIRS study," *Neuroscience Letters*, vol. 654, no. Supplement C, pp. 56–62, Jul. 2017. <https://www.sciencedirect.com/science/article/pii/S0304394017303658>

M. Balconi, L. Cortesi, and D. Crivelli, "Motor planning and performance in transitive and intransitive gesture execution and imagination: Does EEG (RP) activity predict hemodynamic

(fNIRS) response?," *Neuroscience Letters*, vol. 648, pp. 59–65, May 2017. <https://www.sciencedirect.com/science/article/pii/S0304394017302793>

A. M. Kempny et al., "Functional near infrared spectroscopy as a probe of brain function in people with prolonged disorders of consciousness," *NeuroImage: Clinical*, vol. 12, pp. 312–319, Feb. 2016. <https://www.sciencedirect.com/science/article/pii/S2213158216301334>

M.-H. Lee, B.-J. Kim, and S.-W. Lee, "Quantifying movement intentions with multimodal neuroimaging for functional electrical stimulation-based rehabilitation," *Neuroreport*, vol. 27, no. 2, pp. 61–66, Jan. 2016. <https://pubmed.ncbi.nlm.nih.gov/26656935/>

D. Carius, C. Andrä, M. Clauß, P. Ragert, M. Bunk, and J. Mehnert, "Hemodynamic Response Alteration As a Function of Task Complexity and Expertise—An fNIRS Study in Jugglers," *Front. Hum. Neurosci*, p. 126, 2016. <https://www.frontiersin.org/articles/10.3389/fnhum.2016.00126/full>

S. E. Kober, G. Bauernfeind, C. Woller, M. Sampl, P. Grieshofer, C. Neuper, and G. Wood, "Hemodynamic Signal Changes Accompanying Execution and Imagery of Swallowing in Patients with Dysphagia: A Multiple Single-Case Near-Infrared Spectroscopy Study," *Front Neurol*, vol. 6, Jul. 2015. <https://www.frontiersin.org/articles/10.3389/fneur.2015.00151/full>

I. Helmich, H. Holle, R. Rein, and H. Lausberg, "Brain oxygenation patterns during the execution of tool use demonstration, tool use pantomime, and body-part-as-object tool use," *Int J Psychophysiol*, vol. 96, no. 1, pp. 1–7, Apr. 2015. <https://www.sciencedirect.com/science/article/pii/S0167876015001087>

M. Brunetti, N. Morkisch, C. Fritzsich, J. Mehnert, J. Steinbrink, M. Niedeggen, and C. Dohle, "Potential determinants of efficacy of mirror therapy in stroke patients--A pilot study," *Restor. Neurol. Neurosci.*, vol. 33, no. 4, pp. 421–434, 2015. <https://pubmed.ncbi.nlm.nih.gov/26409402/>

K.-S. Hong and H.-D. Nguyen, "State-space models of impulse hemodynamic responses over motor, somatosensory, and visual cortices," *Biomed Opt Express*, vol. 5, no. 6, pp. 1778–1798, May 2014. <https://pubmed.ncbi.nlm.nih.gov/24940540/>

I. Helmich, R. Rein, N. Niermann, and H. Lausberg, "Hemispheric differences of motor execution: a near-infrared spectroscopy study," *Adv. Exp. Med. Biol.*, vol. 789, pp. 59–64, 2013.