

Publications, travaux en cours et communications scientifiques

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En cours

- Meziane, H. B., Jabès, A., Lavenex P. and Banta Lavenex P. The modulation of theta activity in the occipital brain region as a marker of spatial working memory maintenance (en préparation).
- Barral, J., Meziane, H. B., Cremoux, S. and Amarantini, D. Asymmetrical patterns of corticomuscular coherence during unilateral and bilateral rhythmic wrist movements (en préparation).
- Meziane, H.B., et al. Anxiety and interference: differential modulation of brain dynamics (en préparation).

Articles et contributions à des ouvrages

- Simonet, M., Meziane, H. B., Runswick, O.R. et al. (2019). The modulation of event-related alpha rhythm during the time course of anticipation. *Scientific reports* 9, 18226.
- Aebi, M. R., Bourdillon, N., Meziane, H. B., Nicol, E., Barral, J., Millet, G. P., & Bron, D. (2019). Cardiovascular and cerebral responses during a vasovagal reaction without syncope. *Frontiers in Neuroscience*, 13, 1315.
- Ruggeri P., Meziane, H. B., Koenig T., Brandner C. (2019). A fine-grained time course investigation of brain dynamics during conflict monitoring. *Scientific reports* 9(1), 3667-3677.
- Héту, S., Taschereau-Dumouchel, V., Meziane, H. B., Jackson, P. L., & Mercier, C. (2016). Behavioral and TMS markers of action observation might reflect distinct neuronal processes. *Frontiers in Human Neuroscience*, 10(September), 1–12.
- Hasler, R., Perroud, N., Meziane, H. B., Herrmann, F., Prada, P., Giannakopoulos, P., & Deiber, M.-P. (2016). Attention-related EEG markers in adult ADHD. *Neuropsychologia* 87, 120–133.
- Deiber, M.-P., Meziane, H. B., Hasler, R., Rodriguez, C., Toma, S., Ackermann, M., ... Giannakopoulos, P. (2015). Attention and working memory-related EEG markers of subtle cognitive deterioration in healthy elderly individuals. *Journal of Alzheimer's Disease*, 47(2): 335-349.
- Meziane, H.B., Moiselto, C., Perfetti, B., Kvint, S., Isaias, I.U., Quartarone, A., Di Rocco, A., Ghilardi, M.F. (2015). Movement preparation and bilateral modulation of beta activity in aging and Parkinson's disease. *PLoS ONE* 10, e0114817.
- Moiselto, C., Meziane, H.B., Kelly, S., Perfetti, B., Kvint, S., Voutsinas, N., Blanco, D., Quartarone, A., Tononi, G., Ghilardi, M.F. (2013). Neural activations during visual sequence learning leave a trace in post-training spontaneous EEG. *PLoS ONE* 8, e65882.
- Jetté, F., Côté, I., Meziane, H.B., Mercier, C. (2013). Effect of single-session repetitive transcranial magnetic stimulation applied over the hand versus leg motor area on pain after spinal cord injury. *Neurorehabil Neural Repair* 27, 636–643.

- Spieser, L., Meziane, H. B., & Bonnard, M. (2010). Cortical mechanisms underlying stretch reflex adaptation to intention: A combined EEG-TMS study. *NeuroImage*, 52(1), 316–325.
- Bonnard, M., Spieser, L., Meziane, H. B., De Graaf, J. B., & Pailhous, J. (2009). Prior intention can locally tune inhibitory processes in the primary motor cortex: Direct evidence from combined TMS-EEG. *European Journal of Neuroscience*, 30(5), 913–923.
- Meziane, H. B., Spieser, L., Pailhous, J., & Bonnard, M. (2009). Corticospinal control of wrist muscles during expectation of a motor perturbation: A transcranial magnetic stimulation study. *Behavioural Brain Research*, 198(2), 459–465.
- Bonnard, M., Spieser, L., Meziane, H.B., de Graaf, J., Pailhous, J. (2008). How cognition can influence the excitability of the primary motor cortex? A TMS-EEG study. *Brain Stimulation: Basic, Translational, and Clinical Research in Neuromodulation* 1, 274.
- Spieser, L., Meziane, H.B., Bonnard, M. (2008). Are cortical sensorimotor networks involved in the preparation and the reaction to a movement perturbation? A TMS-EEG study. *Brain Stimulation: Basic, Translational, and Clinical Research in Neuromodulation* 1, 274–275.

Conférences et présentations (des cinq dernières années)

- Stephane A., Abdelaziem R., Rechenmann J., Bizeul A., Dulloo, Najjian Chao M., Makokwa S., Meziane H.B., Chavarriaga R., & Benninger D. (2020). Automatic event-detection for the neurophysiological evaluation of voluntary and involuntary movements. 3rd Parkinson & Movement Disorder Research Meeting 2020. 29.01.2020, CHUV, Lausanne, Switzerland. (oral presentation).
- Barral J., Meziane H.B., Sylvain Cremoux S. and David Amarantini D., Asymmetrical patterns of corticomuscular coherence during unilateral and bilateral rhythmic wrist movements (ACAPS 2019). 28.10.2019-31.10.2019, Paris, France. (poster)
- Meziane H.B., Ruggeri P., Brandner C. EEG dynamics of interference and selective attention: effects of sex and anxiety. International conference for cognitive neuroscience (ICON 2017). 04.08.2017- 08.08.2017. Amsterdam, Netherland. (poster)
- Meziane H.B., Ruggeri P., Brandner C. “Interference in the Stroop effect: Highlighting the cognitive and neural mechanisms of selective attention in men and women”. Brain Mind Institute Symposium. Connectivity and Plasticity of Neural Circuits. 12th- 13th December 2016.EPFL, Lausanne, Switzerland. (poster)
- Meziane H.B., Ruggeri P., Ciobanu T., Brandner C. “Neural dynamics and event-related brain potentials of attention allocation: effects of sex and trait anxiety”. The 30th anniversary of the European Workshop on Imagery and Cognition. EWIC 2016, Paris, France. (oral presentation).
- Ruggeri P., Meziane H.B., Ciobanu T., Brandner C.” Memory processes and neural plasticity: an EEG study”. The 30th anniversary of the European Workshop on Imagery and Cognition. EWIC 2016, Paris, France. (poster).
- Ciobanu T., Ruggeri P., Meziane H.B., Brandner C. “ERP correlates of trait anxiety biases on attentional networks: what is the role of sex?” Swiss Society of Neuroscience (SSN). 18th Annual Meeting Saturday, January 23, 2016. University of Lausanne, Switzerland. (poster)