

Publications – DBS electrodes

- 1) Anzak, A., Tan, H., Pogosyan, A., Foltynie, T., Limousin, P., Zrinzo, L., ... Brown, P. (2012). Subthalamic nucleus activity optimizes maximal effort motor responses in Parkinson's disease. *Brain*, 135(9), 2766–2778. <https://doi.org/10.1093/brain/aws183>
- 2) Cagnan, H., Brittain, J.-S., Little, S., Foltynie, T., Limousin, P., Zrinzo, L., ... Brown, P. (2013). Phase dependent modulation of tremor amplitude in essential tremor through thalamic stimulation. *Brain*, 136(10), 3062–3075. <https://doi.org/10.1093/brain/awt239>
- 3) Contarino, M. F., Bour, L. J., Verhagen, R., Lourens, M. A. J., De Bie, R. M. A., Van Den Munckhof, P., & Schuurman, P. R. (2014). Directional steering: A novel approach to deep brain stimulation. *Neurology*, 83(13), 1163–1169. <https://doi.org/10.1212/WNL.0000000000000823>
- 4) Gratkowski, M., Storz, L., Butz, M., Schnitzler, A., Saupe, D., & Dalal, S. S. (2017). BrainCycles : Experimental Setup for the Combined Measurement of Cortical and Subcortical Activity in Parkinson ' s Disease Patients During Cycling i v o r l a n o i v o l . *Frontiers in Human Neuroscience*, 10(January), 1–8. <https://doi.org/10.3389/fnhum.2016.00685>
- 5) Tan, H., Pogosyan, A., Anzak, A., Foltynie, T., Limousin, P., Zrinzo, L., ... Brown, P. (2013). Frequency specific activity in subthalamic nucleus correlates with hand bradykinesia in Parkinson's disease. *Experimental Neurology*, 240(1), 122–129. <https://doi.org/10.1016/j.expneurol.2012.11.011>
- 6) Tan, H., Pogosyan, A., Ashkan, K., Cheeran, B., Fitzgerald, J., Green, A. L., ... Brown, P. (2015). Subthalamic Nucleus Local Field Potential Activity Helps Encode Motor Effort Rather Than Force in Parkinsonism. *Journal of Neuroscience*, 35(15), 5941–5949. <https://doi.org/10.1523/JNEUROSCI.4609-14.2015>
- 7) Tan, H., Pogosyan, A., Ashkan, K., Green, A. L., Aziz, T. Z., Foltynie, T., ... Brown, P. (2016). Decoding gripping force based on local field potentials recorded from subthalamic nucleus in humans. *eLife*, 5, 1–24. <https://doi.org/10.7554/eLife.19089>
- 8) Thevathasan, W., Pogosyan, A., Hyam, J. A., Jenkinson, N., Foltynie, T., Limousin, P., ... Brown, P. (2012). Alpha oscillations in the pedunculopontine nucleus correlate with gait performance in parkinsonism. *Brain*, 135(1), 148–160. <https://doi.org/10.1093/brain/awr315>
- 9) Zavala, B., Tan, H., Ashkan, K., Foltynie, T., Limousin, P., Zrinzo, L., ... Brown, P. (2016). Human subthalamic nucleus-medial frontal cortex theta phase coherence is involved in conflict and error related cortical monitoring. *NeuroImage*, 137, 178–187. <https://doi.org/10.1016/j.neuroimage.2016.05.031>
- 10) Zavala, B., Tan, H., Little, S., Ashkan, K., Green, A. L., Aziz, T. Z., ... Brown, P. (2016). Decisions made with less evidence involve higher levels of corticosubthalamic Nucleus Theta band synchrony. *Journal of Cognitive Neuroscience*, 26(3), 811–825. <https://doi.org/10.1162/jocn>
- 11) Zavala, B., Tan, H., Little, S., Ashkan, K., Hariz, M., Foltynie, T., ... Brown, P. (2014). Midline Frontal Cortex Low-Frequency Activity Drives Subthalamic Nucleus Oscillations during Conflict. *Journal of Neuroscience*, 34(21), 7322–7333. <https://doi.org/10.1523/JNEUROSCI.1169-14.2014>