

PS3141: Clinical and Cognitive Neuroscience

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Allen, G. et al. (1997) 'Attentional Activation of the Cerebellum Independent of Motor Involvement', *Science*, 275(5308), pp. 1940–1943. Available at: http://www.jstor.org/stable/2893081?seq=1#page_scan_tab_contents.

Alvarez-Buylla, A. (2002) 'Neurogenesis in Adult Subventricular Zone', *Journal of Neuroscience*, 22(3), pp. 629–634. Available at: <http://www.jneurosci.org/content/22/3/629>.

'Amplitude, Frequency, and Phase' (2014). Available at: https://www.youtube.com/watch?v=G5_zul5wrTY.

Andres, R.H. et al. (2011) 'Human Neural Stem Cells Enhance Structural Plasticity and Axonal Transport in the Ischaemic Brain', *Brain*, 134(6), pp. 1777–1789. Available at: <https://doi.org/10.1093/brain/awr094>.

Arai, Y. (2002) 'Spatial Orientation of Caloric Nystagmus in Semicircular Canal-Plugged Monkeys', *Journal of Neurophysiology*, 88(2), pp. 914–928. Available at: <http://jn.physiology.org/content/88/2/914>.

Balsters, J.H. et al. (2010) 'Evolution of the Cerebellar Cortex: The Selective Expansion of Prefrontal-Projecting Cerebellar Lobules', *NeuroImage*, 49(3), pp. 2045–2052. Available at: <https://doi.org/10.1016/j.neuroimage.2009.10.045>.

Balsters, J.H. (2011) 'Cerebellar Plasticity and the Automation of First-Order Rules', *Journal of Neuroscience*, 31(6), pp. 2305–2312. Available at: <http://www.jneurosci.org/content/31/6/2305>.

Balsters, J.H. et al. (2013) 'Cerebellum and Cognition: Evidence for the Encoding of Higher Order Rules', *Cerebral Cortex*, 23(6), pp. 1433–1443. Available at: <https://doi.org/10.1093/cercor/bhs127>.

Balsters, J.H. and Ramnani, N. (2008) 'Symbolic Representations of Action in the Human Cerebellum', *NeuroImage*, 43(2), pp. 388–398. Available at: <https://doi.org/10.1016/j.neuroimage.2008.07.010>.

Baron, J.C. et al. (1981) 'Crossed Cerebellar Diaschisis: A Remote Functional Suppression Secondary to Supratentorial Infarction in Man', *Journal of Cerebral Bloodflow Medicine*, 1. Bergman, H., Wichmann, T. and DeLong, M.R. (1990) 'Reversal of Experimental Parkinsonism by Lesions of the Subthalamic Nucleus', *Science*, 249(4975), pp. 1436–1438. Available at: http://www.jstor.org/stable/2878195?seq=1#page_scan_tab_contents.

Bezard, E. and Przedborski, S. (2011) 'A Tale on Animal Models of Parkinson's Disease', *Movement Disorders*, 26(6), pp. 993–1002. Available at: <https://doi.org/10.1002/mds.23696>.

Biernaskie, J., Chernenko, G. and Corbett, D. (2004) 'Efficacy of Rehabilitative Experience Declines With Time After Focal Ischemic Brain Injury.', *Journal Of Neuroscience : The Official Journal Of The Society For Neuroscience*, 24(5), pp. 1245–1254. Available at: https://librarysearch.royalholloway.ac.uk/primo-explore/openurl?Z39.88-2004&rft.jtitle=Journal%20Of%20Neuroscience%20:%20The%20Official%20Journal%20Of%20The%20Society%20For%20Neuroscience&rft.atitle=Efficacy%20of%20Rehabilitative%20Experience%20Declines%20With%20Time%20After%20Focal%20Ischemic%20Brain%20Injury.&rft.volume=24&rft.spage=1245&rft.issn=-&rft.epage=1254&rft.issue=5&rft.date=2004&rft.aufirst=Jeff&rft.aulast=Biernaskie&vid=44ROY_VU2&institution=44ROY&url_ctx_val=&url_ctx_fmt=null&isServicePage=true.

Björklund, L.M. et al. (2002) 'Embryonic Stem Cells Develop Into Functional Dopaminergic Neurons After Transplantation in a Parkinson Rat Model', *Proceedings of the National Academy of Sciences of the United States of America*, 99(4), pp. 2344–2349. Available at: http://www.jstor.org/stable/3057967?seq=1#page_scan_tab_contents.

Blandini, F., Armentero, M.-T. and Martignoni, E. (2008) 'The 6-Hydroxydopamine Model: News from the Past', *Parkinsonism & Related Disorders*, 14, pp. S124–S129. Available at: <https://doi.org/10.1016/j.parkreldis.2008.04.015>.

Bliss, T. et al. (2007) 'Cell Transplantation Therapy for Stroke', *Stroke*, 38(2), pp. 817–826. Available at: <https://doi.org/10.1161/01.STR.0000247888.25985.62>.

'Brain Oscillations: A Video Quick Guide' (2012). Available at: https://www.youtube.com/watch?v=_vQk9isSSSc.

Breedlove, S.M. (2013) 'The Chemistry of Behavior', in *Biological psychology: an introduction to behavioral, cognitive, and clinical neuroscience*. Seventh edition. Sunderland, Massachusetts: Sinauer Associates.

Breedlove, S.M. and Watson, N.V. (2013) 'General Principles of Sensory Processing, Touch, and Pain', in *Biological Psychology: An Introduction to Behavioral, Cognitive, and Clinical Neuroscience*. 7th Edition. Sunderland, Massachusetts: Sinauer Associates.

Brindley, G.S. and Lewin, W.S. (1968) 'The Sensations Produced by Electrical Stimulation of the Visual Cortex', *The Journal of Physiology*, 196(2), pp. 479–493. Available at: <https://doi.org/10.1113/jphysiol.1968.sp008519>.

Brundin, P., Barker, R.A. and Parmar, M. (2010) 'Neural Grafting in Parkinson's Disease', in *Recent Advances in Parkinson's Disease - Translational and Clinical Research*. Elsevier, pp. 265–294. Available at: [https://doi.org/10.1016/S0079-6123\(10\)84014-2](https://doi.org/10.1016/S0079-6123(10)84014-2).

Budisavljevic, S. and Ramnani, N. (2012) 'Cognitive Deficits From a Cerebellar Tumour: A Historical Case Report From Luria's Laboratory', *Cortex*, 48(1), pp. 26–35. Available at: <https://doi.org/10.1016/j.cortex.2011.07.001>.

Buonomano, D.V. and Merzenich, M.M. (1998) 'Cortical Plasticity: From Synapses to Maps', *Annual Review of Neuroscience*, 21(1), pp. 149–186. Available at: <https://doi.org/10.1146/annurev.neuro.21.1.149>.

Chapin, J.K. et al. (1999) 'Real-Time Control of a Robot Arm Using Simultaneously Recorded Neurons in the Motor Cortex', *Nature Neuroscience*, 2(7), pp. 664–670. Available at: <https://doi.org/10.1038/10223>.

Constantinidis, C. (2001) 'Coding Specificity in Cortical Microcircuits: A Multiple-Electrode Analysis of Primate Prefrontal Cortex', *Journal of Neuroscience*, 21(10), pp. 3646–3655. Available at: <http://www.jneurosci.org/content/21/10/3646.long>.

Cramer, S.C. et al. (2006) 'Activity in the Peri-Infarct Rim in Relation to Recovery From Stroke', *Stroke*, 37(1), pp. 111–115. Available at: <https://doi.org/10.1161/01.STR.0000195135.70379.1f>.

Cramer, S.C. (2008) 'Repairing the Human Brain After Stroke: I. Mechanisms of Spontaneous Recovery', *Annals of Neurology*, 63(3), pp. 272–287. Available at: <https://doi.org/10.1002/ana.21393>.

Dagnelie, G. (2008) 'Psychophysical Evaluation for Visual Prosthesis', *Annual Review of Biomedical Engineering*, 10(1), pp. 339–368. Available at: <https://doi.org/10.1146/annurev.bioeng.10.061807.160529>.

Di Chiara, G. and Imperato, A. (1988) 'Drugs Abused by Humans Preferentially Increase Synaptic Dopamine Concentrations in the Mesolimbic System of Freely Moving Rats', *Proceedings of the National Academy of Sciences of the United States of America*, 85(14), pp. 5274–5278. Available at: http://www.jstor.org/stable/32403?seq=1#page_scan_tab_contents.

Dobelle, Wm.H. (2000) 'Artificial Vision for the Blind by Connecting a Television Camera', *ASAIO Journal*, 46(1), pp. 3–9. Available at: https://web.archive.org/web/20210605173238/https://journals.lww.com/asaiojournal/fulltext/2000/01000/artificial_vision_for_the_blind_by_connecting_a.2.aspx.

Donoghue, J.P. (2008) 'Bridging the Brain to the World: A Perspective on Neural Interface Systems', *Neuron*, 60(3), pp. 511–521. Available at: <https://doi.org/10.1016/j.neuron.2008.10.037>.

Duvernoy, H.M., Bourgouin, P. and Vannson, J.L. (1999) *Human Brain: Surface, Three-Dimensional Sectional Anatomy With MRI, and Blood Supply*. Second, completely revised and enlarged edition. Wien, [Austria]: Springer. Available at: <https://ebookcentral.proquest.com/lib/rhul/detail.action?docID=3099186>.

Engel, A.K. and Singer, W. (2001) 'Temporal Binding and the Neural Correlates of Sensory Awareness', *Trends in Cognitive Sciences*, 5(1), pp. 16–25. Available at: [https://doi.org/10.1016/S1364-6613\(00\)01568-0](https://doi.org/10.1016/S1364-6613(00)01568-0).

Farnè, A. et al. (2002) 'Face or Hand, Not Both', *Current Biology*, 12(15), pp. 1342–1346. Available at: [https://doi.org/10.1016/S0960-9822\(02\)01018-7](https://doi.org/10.1016/S0960-9822(02)01018-7).

Feldman, D.E. and Brecht, M. (2005) 'Map Plasticity in Somatosensory Cortex', *Science*, 310(5749), pp. 810–815. Available at:
http://www.jstor.org/stable/3842754?seq=1#page_scan_tab_contents.

Flor, H., Nikolajsen, L. and Staehelin Jensen, T. (2006) 'Phantom Limb Pain: A Case of Maladaptive CNS Plasticity?', *Nature Reviews Neuroscience*, 7(11), pp. 873–881. Available at: <https://doi.org/10.1038/nrn1991>.

Fox, S.H. and Brotchie, J.M. (2010a) 'The MPTP-Lesioned Non-Human Primate Models of Parkinson's Disease. Past, Present, and Future', *Recent Advances in Parkinson's Disease - Translational and Clinical Research*, *Progress in Brain Research* 184, pp. 133–157. Available at:
<https://ebookcentral-proquest-com.ezproxy01.rhul.ac.uk/lib/rhul/reader.action?docID=616914&ppg=144>.

Fox, S.H. and Brotchie, J.M. (2010b) 'The MPTP-Lesioned Non-Human Primate Models of Parkinson's Disease. Past, Present, and Future', *Recent Advances in Parkinson's Disease - Translational and Clinical Research*, *Progress in Brain Research* 184, pp. 133–157. Available at: [https://doi.org/10.1016/S0079-6123\(10\)84007-5](https://doi.org/10.1016/S0079-6123(10)84007-5).

Freedman, D.J. et al. (2001) 'Categorical Representation of Visual Stimuli in the Primate Prefrontal Cortex', *Science*, 291(5502), pp. 312–316. Available at:
http://www.jstor.org/stable/3082349?seq=1#page_scan_tab_contents.

Freedman, D.J. (2003) 'A Comparison of Primate Prefrontal and Inferior Temporal Cortices during Visual Categorization', *Journal of Neuroscience*, 23(12), pp. 5235–5246. Available at: <http://www.jneurosci.org/content/23/12/5235.short>.

Fries, P. (2005) 'A Mechanism for Cognitive Dynamics: Neuronal Communication Through Neuronal Coherence', *Trends in Cognitive Sciences*, 9(10), pp. 474–480. Available at: <https://doi.org/10.1016/j.tics.2005.08.011>.

Fries, P. (2009) 'Neuronal Gamma-Band Synchronization as a Fundamental Process in Cortical Computation', *Annual Review of Neuroscience*, 32(1), pp. 209–224. Available at: <https://doi.org/10.1146/annurev.neuro.051508.135603>.

Frost, S.B. (2003) 'Reorganization of Remote Cortical Regions After Ischemic Brain Injury: A Potential Substrate for Stroke Recovery', *Journal of Neurophysiology*, 89(6), pp. 3205–3214. Available at: <https://doi.org/10.1152/jn.01143.2002>.

'Fundamentals of Neuronal Oscillations and Synchrony' (2015a). Available at:
<https://www.youtube.com/watch?v=vwPpSgIPJTE>.

'Fundamentals of Neuronal Oscillations and Synchrony' (2015b). Available at:
<https://www.youtube.com/watch?v=vwPpSgIPJTE>.

Fuster, J.M. (2000) 'Prefrontal Neurons in Networks of Executive Memory', *Brain Research Bulletin*, 52(5), pp. 331–336. Available at: [https://doi.org/10.1016/S0361-9230\(99\)00258-0](https://doi.org/10.1016/S0361-9230(99)00258-0).

Fuster, J.M. (2001) 'The Prefrontal Cortex - An Update: Time Is of the Essence', *Neuron*,

30(2), pp. 319–333. Available at: [https://doi.org/10.1016/S0896-6273\(01\)00285-9](https://doi.org/10.1016/S0896-6273(01)00285-9).

Fuster, J.M. (2004) 'Upper Processing Stages of the Perception–action Cycle', *Trends in Cognitive Sciences*, 8(4), pp. 143–145. Available at: <https://doi.org/10.1016/j.tics.2004.02.004>.

Gaillard, A. et al. (2007) 'Reestablishment of Damaged Adult Motor Pathways by Grafted Embryonic Cortical Neurons', *Nature Neuroscience*, 10(10), pp. 1294–1299. Available at: <https://doi.org/10.1038/nn1970>.

Gaillard, A. and Jaber, M. (2011) 'Rewiring the Brain With Cell Transplantation in Parkinson's Disease', *Trends in Neurosciences*, 34(3), pp. 124–133. Available at: <https://doi.org/10.1016/j.tins.2011.01.003>.

Giraux, P. et al. (2001) 'Cortical Reorganization in Motor Cortex After Graft of Both Hands', *Nature Neuroscience*, 4(7), pp. 691–692. Available at: <https://doi.org/10.1038/89472>.

Glickstein, M. (1993) 'Motor Skills but Not Cognitive Tasks', *Trends in Neurosciences*, 16(11), pp. 450–451. Available at: [https://doi.org/10.1016/0166-2236\(93\)90074-V](https://doi.org/10.1016/0166-2236(93)90074-V).

Glickstein, M. (2007) 'What Does the Cerebellum Really Do?', *Current Biology*, 17(19), pp. R824–R827. Available at: <https://doi.org/10.1016/j.cub.2007.08.009>.

Glickstein, M., May, J.G. and Mercier, B.E. (1985) 'Corticopontine Projection in the Macaque: The Distribution of Labelled Cortical Cells After Large Injections of Horseradish Peroxidase in the Pontine Nuclei', *The Journal of Comparative Neurology*, 235(3), pp. 343–359. Available at: <https://doi.org/https://doi.org/10.1002/cne.902350306>.

Glickstein, M., Strata, P. and Voogd, J. (2009) 'Cerebellum: History', *Neuroscience*, 162(3), pp. 549–559. Available at: <https://doi.org/10.1016/j.neuroscience.2009.02.054>.

Goldberg, S.R., Tanda, G. and Munzar, P. (2000) 'Self-Administration Behavior Is Maintained by the Psychoactive Ingredient of Marijuana in Squirrel Monkeys', *Nature Neuroscience*, 3(11), pp. 1073–1074. Available at: <https://doi.org/10.1038/80577>.

Gould, E. (2007) 'How Widespread Is Adult Neurogenesis in Mammals?', *Nature Reviews Neuroscience*, 8(6), pp. 481–488. Available at: <https://doi.org/10.1038/nrn2147>.

Gross, C.G. (2000) 'Neurogenesis in the Adult Brain: Death of a Dogma', *Nature Reviews Neuroscience*, 1(1), pp. 67–73. Available at: <https://doi.org/10.1038/35036235>.

Gustavsson, A. et al. (2011) 'Cost of Disorders of the Brain in Europe 2010', *European Neuropsychopharmacology*, 21(10), pp. 718–779. Available at: <https://doi.org/10.1016/j.euroneuro.2011.08.008>.

Harris, A.J. (1999) 'Cortical Origin of Pathological Pain', *The Lancet*, 354(9188), pp. 1464–1466. Available at: [https://doi.org/10.1016/S0140-6736\(99\)05003-5](https://doi.org/10.1016/S0140-6736(99)05003-5).

Hauser, R.A. (2009) 'Levodopa: Past, Present, and Future', *European Neurology*, 62(1), pp. 1–8. Available at: <https://doi.org/10.1159/000215875>.

- Hayter, A.L., Langdon, D.W. and Ramnani, N. (2007) 'Cerebellar Contributions to Working Memory', *NeuroImage*, 36(3), pp. 943–954. Available at: <https://doi.org/10.1016/j.neuroimage.2007.03.011>.
- Hochberg, L.R. et al. (2006) 'Neuronal Ensemble Control of Prosthetic Devices by a Human With Tetraplegia', *Nature*, 442(7099), pp. 164–171. Available at: <https://doi.org/10.1038/nature04970>.
- Horn, S.D. et al. (2005) 'Stroke Rehabilitation Patients, Practice, and Outcomes: Is Earlier and More Aggressive Therapy Better?', *Archives of Physical Medicine and Rehabilitation*, 86(12), pp. 101–114. Available at: <https://doi.org/10.1016/j.apmr.2005.09.016>.
- Ikemoto, S. and Wise, R.A. (2004) 'Mapping of Chemical Trigger Zones for Reward', *Neuropharmacology*, 47, pp. 190–201. Available at: <https://doi.org/10.1016/j.neuropharm.2004.07.012>.
- 'Introduction to Brain Waves' (2014). Available at: <https://www.youtube.com/watch?v=LEJdlkc-EDA>.
- Iversen, L. (2003) 'Cannabis and the Brain', *Brain*, 126(6), pp. 1252–1270. Available at: <https://doi.org/10.1093/brain/awg143>.
- Jain, N., Catania, K.C. and Kaas, J.H. (1997) 'Deactivation and Reactivation of Somatosensory Cortex After Dorsal Spinal Cord Injury', *Nature*, 386(6624), pp. 495–498. Available at: <https://doi.org/10.1038/386495a0>.
- 'Jan's Interview With Wolf Singer (Full-Length) on Vimeo' (2010). Available at: <https://vimeo.com/11151854>.
- Jenkinson, N. and Brown, P. (2011) 'New Insights Into the Relationship Between Dopamine, Beta Oscillations and Motor Function', *Trends in Neurosciences*, 34(12), pp. 611–618. Available at: <https://doi.org/10.1016/j.tins.2011.09.003>.
- Jones, E.G. (2000) 'Cortical and Subcortical Contributions to Activity-Dependent Plasticity in Primate Somatosensory Cortex', *Annual Review of Neuroscience*, 23(1), pp. 1–37. Available at: <https://doi.org/10.1146/annurev.neuro.23.1.1>.
- Jueptner, M. (1997) 'Anatomy of Motor Learning. I. Frontal Cortex and Attention to Action', *Journal of Neurophysiology*, 77(3), pp. 1313–1324. Available at: <http://jn.physiology.org/content/77/3/1313>.
- Justinova, Z. et al. (2003) 'Self-Administration of delta9-Tetrahydrocannabinol (THC) by Drug Naive Squirrel Monkeys', *Psychopharmacology*, 169(2), pp. 135–140. Available at: <https://doi.org/10.1007/s00213-003-1484-0>.
- Kaas, J.H., Merzenich, M.M. and Killackey, H.P. (1983) 'The Reorganization of Somatosensory Cortex Following Peripheral Nerve Damage in Adult and Developing Mammals', *Annual Review of Neuroscience*, 6(1), pp. 325–356. Available at: <https://doi.org/10.1146/annurev.ne.06.030183.001545>.
- Kelly, R.M. and Strick, P.L. (2003) 'Cerebellar Loops with Motor Cortex and Prefrontal

Cortex of a Nonhuman Primate', *The Journal of Neuroscience*, 23(23), pp. 8432–8444. Available at: <https://doi.org/10.1523/JNEUROSCI.23-23-08432.2003>.

Kim, S.G., Uğurbil, K. and Strick, P.L. (1994) 'Activation of a Cerebellar Output Nucleus During Cognitive Processing', *Science*, 265(5174), pp. 949–951. Available at: http://www.jstor.org/stable/2884519?seq=1#page_scan_tab_contents.

Kirschen, M.P., Chen, S. H. Annabel, et al. (2005) 'Load- and Practice-Dependent Increases in Cerebro-Cerebellar Activation in Verbal Working Memory: An fMRI Study', *NeuroImage*, 24(2), pp. 462–472. Available at: <https://doi.org/10.1016/j.neuroimage.2004.08.036>.

Kirschen, M.P., Chen, S.H. Annabel, et al. (2005) 'Load- and Practice-Dependent Increases in Cerebro-Cerebellar Activation in Verbal Working Memory: An fMRI Study', *NeuroImage*, 24(2), pp. 462–472. Available at: <https://doi.org/10.1016/j.neuroimage.2004.08.036>.

Koechlin, E., Ody, C. and Kouneiher, F. (2003) 'The Architecture of Cognitive Control in the Human Prefrontal Cortex', *Science*, 302(5648), pp. 1181–1185. Available at: http://www.jstor.org/stable/3835489?seq=1#page_scan_tab_contents.

Koechlin, E. and Summerfield, C. (2007) 'An Information Theoretical Approach to Prefrontal Executive Function', *Trends in Cognitive Sciences*, 11(6), pp. 229–235. Available at: <https://doi.org/10.1016/j.tics.2007.04.005>.

Krack, P. et al. (2003) 'Five-Year Follow-up of Bilateral Stimulation of the Subthalamic Nucleus in Advanced Parkinson's Disease', *New England Journal of Medicine*, 349(20), pp. 1925–1934. Available at: <https://doi.org/10.1056/NEJMoa035275>.

Krakauer, J.W. (2006) 'Motor Learning: Its Relevance to Stroke Recovery and Neurorehabilitation', *Current Opinion in Neurology*, 19(1), pp. 84–90.

Kringelbach, M.L. et al. (2007) 'Translational Principles of Deep Brain Stimulation', *Nature Reviews Neuroscience*, 8(8), pp. 623–635. Available at: <https://doi.org/10.1038/nrn2196>.

Langston, J.W. et al. (1983) 'Chronic Parkinsonism in Humans Due to a Product of Meperidine-Analog Synthesis', *Science*, 219(4587), pp. 979–980. Available at: http://www.jstor.org/stable/1690734?seq=1#page_scan_tab_contents.

Leiner, H.C., Leiner, A.L. and Dow, R.S. (1993) 'Cognitive and Language Functions of the Human Cerebellum', *Trends in Neurosciences*, 16(11), pp. 444–447. Available at: [https://doi.org/10.1016/0166-2236\(93\)90072-T](https://doi.org/10.1016/0166-2236(93)90072-T).

Leon, M.I. and Shadlen, M.N. (1999) 'Effect of Expected Reward Magnitude on the Response of Neurons in the Dorsolateral Prefrontal Cortex of the Macaque', *Neuron*, 24(2), pp. 415–425. Available at: [https://doi.org/10.1016/S0896-6273\(00\)80854-5](https://doi.org/10.1016/S0896-6273(00)80854-5).

Liepert, J. et al. (1998) 'Motor Cortex Plasticity During Constraint-Induced Movement Therapy in Stroke Patients', *Neuroscience Letters*, 250(1), pp. 5–8. Available at: [https://doi.org/10.1016/S0304-3940\(98\)00386-3](https://doi.org/10.1016/S0304-3940(98)00386-3).

Lingford-Hughes, A.R. et al. (2012) 'BAP Updated Guidelines: Evidence-Based Guidelines for the Pharmacological Management of Substance Abuse, Harmful Use, Addiction and

Comorbidity: Recommendations From BAP', *Journal of Psychopharmacology*, 26(7), pp. 899–952. Available at: <https://doi.org/10.1177/0269881112444324>.

Lipsanen, A. and Jolkkonen, J. (2011) 'Experimental Approaches to Study Functional Recovery Following Cerebral Ischemia', *Cellular and Molecular Life Sciences*, 68(18), pp. 3007–3017. Available at: <https://doi.org/10.1007/s00018-011-0733-3>.

Litvak, V. et al. (2011) 'EEG and MEG Data Analysis in SPM8', *Computational Intelligence and Neuroscience*, 2011, pp. 1–32. Available at: <https://doi.org/10.1155/2011/852961>.

Lotze, M. (2001) 'Phantom Movements and Pain an fMRI Study in Upper Limb Amputees', *Brain*, 124(11), pp. 2268–2277. Available at: <https://doi.org/10.1093/brain/124.11.2268>.

Mai, J.K., Voss, T. and Paxinos, G. (2008) '3.1 Surface Views of the Atlas Brain', in *Atlas of the human brain*. 3rd ed. London: Academic.

'Massachusetts Institute of Technology (MIT) - YouTube' (no date). Available at: <http://video.mit.edu/watch/what-harm-does-pathological-synchronization-in-parkinsons-disease-do-9489/>.

McDonald, M.W. et al. (2018) 'Is Environmental Enrichment Ready for Clinical Application in Human Post-stroke Rehabilitation?', *Frontiers in Behavioral Neuroscience*, 12. Available at: <https://doi.org/10.3389/fnbeh.2018.00135>.

'MEG and Neural Oscillations in ScZ: A Translational Perspective' (2016). Available at: <https://www.youtube.com/watch?v=pRjxU3Kljyl>.

Merabet, L.B. et al. (2005a) 'Opinion: What Blindness Can Tell Us About Seeing Again: Merging Neuroplasticity and Neuroprostheses', *Nature Reviews Neuroscience*, 6(1), pp. 71–77. Available at: <https://doi.org/10.1038/nrn1586>.

Merabet, L.B. et al. (2005b) 'Opinion: What Blindness Can Tell Us About Seeing Again: Merging Neuroplasticity and Neuroprostheses', *Nature Reviews Neuroscience*, 6(1), pp. 71–77. Available at: <https://doi.org/10.1038/nrn1586>.

Merola, A. et al. (2011) 'Parkinson's disease progression at 30 years: a study of subthalamic deep brain-stimulated patients', *Brain*, 134(7), pp. 2074–2084. Available at: <https://doi.org/10.1093/brain/awr121>.

Middleton, F.A. and Strick, P.L. (1994) 'Anatomical Evidence for Cerebellar and Basal Ganglia Involvement in Higher Cognitive Function', *Science*, 266(5184), pp. 458–461. Available at: <https://www.jstor.org/stable/2885336>.

Middleton, F.A. and Strick, P.L. (1997) 'Dentate Output Channels: Motor and Cognitive Components', *The Cerebellum: From Structure to Control*, *Progress in Brain Research* 114, pp. 553–566. Available at: [https://doi.org/10.1016/S0079-6123\(08\)63386-5](https://doi.org/10.1016/S0079-6123(08)63386-5).

Miller, E.K. (2000) 'The Prefrontal Cortex and Cognitive Control', *Nature Reviews Neuroscience*, 1(1), pp. 59–65. Available at: <https://doi.org/10.1038/35036228>.

Miller, E.K., Freedman, D.J. and Wallis, J.D. (2002) 'The Prefrontal Cortex: Categories,

- Concepts and Cognition', *Philosophical Transactions: Biological Sciences*, 357(1424), pp. 1123–1136. Available at:
http://www.jstor.org/stable/3066752?seq=1#page_scan_tab_contents.
- Modo, M. et al. (2002) 'Effects of Implantation Site of Stem Cell Grafts on Behavioral Recovery From Stroke Damage', *Stroke*, 33(9), pp. 2270–2278. Available at:
<https://doi.org/10.1161/01.STR.0000027693.50675.C5>.
- Moritz, C.T., Perlmutter, S.I. and Fetz, E.E. (2008) 'Direct Control of Paralyzed Muscles by Cortical Neurons', *Nature*, 456(7222), pp. 639–642. Available at:
<https://doi.org/10.1038/nature07418>.
- Murphy, T.H. and Corbett, D. (2009) 'Plasticity During Stroke Recovery: From Synapse to Behaviour', *Nature Reviews Neuroscience*, 10(12), pp. 861–872. Available at:
<https://doi.org/10.1038/nrn2735>.
- 'Neurexpert - The EEG and Gamma Oscillations' (2015). Available at:
<https://www.youtube.com/watch?v=ZRgX1dH1pf8>.
- Nicolelis, M.A.L. et al. (2000) 'Real-Time Prediction of Hand Trajectory by Ensembles of Cortical Neurons in Primates', *Nature*, 408(6810), pp. 361–365. Available at:
<https://doi.org/10.1038/35042582>.
- Nicolelis, M.A.L. and Lebedev, M.A. (2009) 'Principles of Neural Ensemble Physiology Underlying the Operation of Brain-machine Interfaces', *Nature Reviews Neuroscience*, 10(7), pp. 530–540. Available at: <https://doi.org/10.1038/nrn2653>.
- Nudo, R.J. et al. (1996) 'Neural Substrates for the Effects of Rehabilitative Training on Motor Recovery After Ischemic Infarct', *Science*, 272(5269), pp. 1791–1794. Available at:
http://www.jstor.org/stable/2889327?seq=1#page_scan_tab_contents.
- Nudo, R.J. (2006) 'Mechanisms for Recovery of Motor Function Following Cortical Damage', *Current Opinion in Neurobiology*, 16(6), pp. 638–644. Available at:
<https://doi.org/10.1016/j.conb.2006.10.004>.
- Nudo, R.J. and Milliken, G.W. (1996) 'Reorganization of Movement Representations in Primary Motor Cortex Following Focal Ischemic Infarcts in Adult Squirrel Monkeys', *Journal of Neurophysiology*, 75(5), pp. 2144–2149. Available at:
<https://doi.org/10.1152/jn.1996.75.5.2144>.
- Nutt, D.J. et al. (2015) 'The Dopamine Theory of Addiction: 40 Years of Highs and Lows', *Nature Reviews Neuroscience*, 16(5), pp. 305–312. Available at:
<https://doi.org/10.1038/nrn3939>.
- O'Doherty, J.E. et al. (2011) 'Active Tactile Exploration Using a Brain-Machine-Brain Interface', *Nature*, 479(7372), pp. 228–231. Available at:
<https://doi.org/10.1038/nature10489>.
- Olds, J. (1958) 'Self-Stimulation of the Brain; Its Use to Study Local Effects of Hunger, Sex, and Drugs', *Science*, 127(3294), pp. 315–324. Available at:
http://www.jstor.org/stable/1754983?seq=1#page_scan_tab_contents.

Olds, J. and Milner, P. (1954) 'Positive Reinforcement Produced by Electrical Stimulation of Septal Area and Other Regions of Rat Brain', *Journal of Comparative Psychology*, (6), pp. 419–427. Available at: <http://search.ebscohost.com/login.aspx?direct=true&db=pdh&AN=1955-06866-001&site=ehost-live>.

O'Reilly, J.X. et al. (2010) 'Distinct and Overlapping Functional Zones in the Cerebellum Defined by Resting State Functional Connectivity', *Cerebral Cortex*, 20(4), pp. 953–965. Available at: <https://doi.org/10.1093/cercor/bhp157>.

'Oscillating Neural Network Demonstration' (2015). Available at: https://www.youtube.com/watch?v=bl2aYFv_978.

Passingham, R.E., Weinberger, D. and Petrides, M. (1996) 'Attention to Action', *Philosophical Transactions: Biological Sciences*, 351(1346), pp. 1473–1479. Available at: http://www.jstor.org/stable/3069194?seq=1#page_scan_tab_contents.

Passingham, R.E. and Wise, S.P. (2012a) *The Neurobiology of the Prefrontal Cortex: Anatomy, Evolution, and the Origin of Insight*. 1st ed. Oxford, United Kingdom: Oxford University Press.

Passingham, R.E. and Wise, S.P. (2012b) *The Neurobiology of the Prefrontal Cortex: Anatomy, Evolution, and the Origin of Insight*. Oxford: Oxford University Press. Available at: <https://ebookcentral.proquest.com/lib/rhul/detail.action?docID=4701018>.

Patel, N.K. et al. (2003) 'Unilateral Subthalamotomy in the Treatment of Parkinson's Disease', *Brain*, 126(5), pp. 1136–1145. Available at: <https://doi.org/10.1093/brain/awg111>.

Piccini, P. et al. (1999) 'Dopamine Release From Nigral Transplants Visualized in Vivo in a Parkinson's Patient', *Nature Neuroscience*, 2(12), pp. 1137–1140. Available at: <https://doi.org/10.1038/16060>.

Pierce, R.C. and Kumaresan, V. (2006) 'The Mesolimbic Dopamine System: The Final Common Pathway for the Reinforcing Effect of Drugs of Abuse?', *Neuroscience & Biobehavioral Reviews*, 30(2), pp. 215–238. Available at: <https://doi.org/10.1016/j.neubiorev.2005.04.016>.

Pons, T.P. et al. (1991) 'Massive Cortical Reorganization After Sensory Deafferentation in Adult Macaques', *Science*, 252(5014), pp. 1857–1860. Available at: http://www.jstor.org/stable/2875886?seq=1#page_scan_tab_contents.

Purves, D. (2008) 'Modulation of Movement by the Basal Ganglia', in *Neuroscience*. 4th Edition. Sunderland, Massachusetts: Sinauer.

Qiang, L. et al. (2011) 'Directed Conversion of Alzheimer's Disease Patient Skin Fibroblasts into Functional Neurons', *Cell*, 146(3), pp. 359–371. Available at: <https://doi.org/10.1016/j.cell.2011.07.007>.

Quintana, J. (1999) 'From Perception to Action: Temporal Integrative Functions of Prefrontal and Parietal Neurons', *Cerebral Cortex*, 9(3), pp. 213–221. Available at:

<https://doi.org/10.1093/cercor/9.3.213>.

Ramachandran, V. (1998) 'The Perception of Phantom Limbs: the D. O. Hebb Lecture', *Brain*, 121(9), pp. 1603–1630. Available at: <https://doi.org/10.1093/brain/121.9.1603>.

Ramnani, N. (2005) 'The Evolution of Prefrontal Inputs to the Cortico-pontine System: Diffusion Imaging Evidence from Macaque Monkeys and Humans', *Cerebral Cortex*, 16(6), pp. 811–818. Available at: <https://doi.org/10.1093/cercor/bhj024>.

Ramnani, N. (2006) 'The Primate Cortico-Cerebellar System: Anatomy and Function', *Nature Reviews Neuroscience*, 7(7), pp. 511–522. Available at: <https://doi.org/10.1038/nrn1953>.

Ramnani, N. (2012) 'Frontal Lobe and Posterior Parietal Contributions to the Cortico-Cerebellar System', *The Cerebellum*, 11(2), pp. 366–383. Available at: <https://doi.org/10.1007/s12311-011-0272-3>.

Ramnani, N. (2014a) 'Automatic and Controlled Processing in the Corticocerebellar System', in N. Ramnani (ed.) *Cerebellar learning*. Amsterdam: Elsevier, pp. 255–285. Available at: <https://doi.org/10.1016/B978-0-444-63356-9.00010-8>.

Ramnani, N. (2014b) *Cerebellar Learning*. Oxford: Elsevier Science & Technology. Available at: <https://moodle.royalholloway.ac.uk/mod/resource/view.php?id=160502>.

Ramnani, N. and Owen, A.M. (2004) 'Anterior Prefrontal Cortex: Insights Into Function From Anatomy and Neuroimaging', *Nature Reviews Neuroscience*, 5(3), pp. 184–194. Available at: <https://doi.org/10.1038/nrn1343>.

Ramnani, N. and Passingham, R.E. (2001) 'Changes in the Human Brain During Rhythm Learning', *Journal of Cognitive Neuroscience*, 13(7), pp. 952–966. Available at: <https://doi.org/10.1162/089892901753165863>.

Rowe, J.B. et al. (2000) 'The Prefrontal Cortex: Response Selection or Maintenance Within Working Memory?', *Science*, 288(5471), pp. 1656–1660. Available at: http://www.jstor.org/stable/3075487?seq=1#page_scan_tab_contents.

Sakai, K., Rowe, J.B. and Passingham, R.E. (2002) 'Active Maintenance in Prefrontal Area 46 Creates Distractor-Resistant Memory', *Nature Neuroscience*, 5(5), pp. 479–484. Available at: <https://doi.org/10.1038/nn846>.

Salter, K. et al. (2006) 'Impact of Early vs Delayed Admission to Rehabilitation on Functional Outcomes in Persons With Stroke', *Journal of Rehabilitation Medicine*, 38(2), pp. 113–117. Available at: <https://doi.org/10.1080/16501970500314350>.

Schieber, M.H. (2001) 'Constraints on Somatotopic Organization in the Primary Motor Cortex', *Journal of Neurophysiology*, 86(5), pp. 2125–2143. Available at: <http://jn.physiology.org/content/86/5/2125>.

Schiller, P.H. and Tehovnik, E.J. (2008) 'Visual Prosthesis', *Perception*, 37(10), pp. 1529–1559. Available at: <https://doi.org/10.1068/p6100>.

- Schmahmann, J. (1998) 'The Cerebellar Cognitive Affective Syndrome', *Brain*, 121(4), pp. 561–579. Available at: <https://doi.org/10.1093/brain/121.4.561>.
- Schultz, W. (2002) 'Getting Formal with Dopamine and Reward', *Neuron*, 36(2), pp. 241–263. Available at: [https://doi.org/10.1016/S0896-6273\(02\)00967-4](https://doi.org/10.1016/S0896-6273(02)00967-4).
- Schwartz, A.B. et al. (2006) 'Brain-Controlled Interfaces: Movement Restoration with Neural Prosthetics', *Neuron*, 52(1), pp. 205–220. Available at: <https://doi.org/10.1016/j.neuron.2006.09.019>.
- Serruya, M.D. et al. (2002) 'Brain-Machine Interface: Instant Neural Control of a Movement Signal', *Nature*, 416(6877), pp. 141–142. Available at: <https://doi.org/10.1038/416141a>.
- Shallice, T., Burgess, P. and Robertson, I. (1996) 'The Domain of Supervisory Processes and Temporal Organization of Behaviour [And Discussion]', *Philosophical Transactions: Biological Sciences*, 351(1346), pp. 1405–1412. Available at: http://www.jstor.org/stable/3069186?seq=1#page_scan_tab_contents.
- 'Sleep Basics: Wave Form and Sleep Stages' (2013). Available at: <https://www.youtube.com/watch?v=3vsq8zsF0Kc>.
- Stein, J. (2001) 'The Magnocellular Theory of Developmental Dyslexia', *Dyslexia*, 7(1), pp. 12–36. Available at: <https://doi.org/10.1002/dys.186>.
- Stem Cell Basics: Introduction [Stem Cell Information] (no date). Available at: <https://web-beta.archive.org/web/20121120094520/https://stemcells.nih.gov/info/basics/basics1.asp>.
- 'Stem Cells' (no date). Available at: https://web.archive.org/web/20221005153032/http://ns.umich.edu/stemcells/022706_TabA.html.
- Strick, P.L., Dum, R.P. and Fiez, J.A. (2009a) 'Cerebellum and Nonmotor Function', *Annual Review of Neuroscience*, 32(1), pp. 413–434. Available at: <https://doi.org/10.1146/annurev.neuro.31.060407.125606>.
- Strick, P.L., Dum, R.P. and Fiez, J.A. (2009b) 'Cerebellum and Nonmotor Function', *Annual Review of Neuroscience*, 32(1), pp. 413–434. Available at: <https://doi.org/10.1146/annurev.neuro.31.060407.125606>.
- 'Synchronized Neural Oscillations in the Pathophysiology of Schizophrenia' (2008). Available at: <https://www.youtube.com/watch?v=Kn3XZRwd9KY>.
- Tallon-Baudry, C. (1999) 'Oscillatory Gamma Activity in Humans and Its Role in Object Representation', *Trends in Cognitive Sciences*, 3(4), pp. 151–162. Available at: [https://doi.org/10.1016/S1364-6613\(99\)01299-1](https://doi.org/10.1016/S1364-6613(99)01299-1).
- 'The Cerebellum: Connections, Computations and Cognition' (1998) *Trends in Cognitive Sciences*, 2(9). Available at: <http://www.sciencedirect.com/science/journal/13646613/2/9>.
- 'Theta Oscillations and Their Role in Creating Place and Grid Cell Representations | John O'Keefe' (2014). Available at: <https://www.youtube.com/watch?v=PcYMA27A14A>.

TSN: Neural Oscillations in Schizophrenia: Perspectives From MEG (no date). Available at: <http://thesciencenetwork.org/programs/rhythmic-dynamics-and-cognition/peter-uhlhaas>.

Uhlhaas, P.J. and Singer, W. (2010) 'Abnormal Neural Oscillations and Synchrony in Schizophrenia', *Nature Reviews Neuroscience*, 11(2), pp. 100–113. Available at: <https://doi.org/10.1038/nrn2774>.

Vargas, C.D. et al. (2009) 'Re-Emergence of Hand-Muscle Representations in Human Motor Cortex After Hand Allograft', *Proceedings of the National Academy of Sciences of the United States of America*, 106(17), pp. 7197–7202. Available at: http://www.jstor.org/stable/40483397?seq=1#page_scan_tab_contents.

Velliste, M. et al. (2008) 'Cortical Control of a Prosthetic Arm for Self-Feeding', *Nature*, 453(7198), pp. 1098–1101. Available at: <https://doi.org/10.1038/nature06996>.

Veraart, C. et al. (1998) 'Visual Sensations Produced by Optic Nerve Stimulation Using an Implanted Self-Sizing Spiral Cuff Electrode', *Brain Research*, 813(1), pp. 181–186. Available at: [https://doi.org/10.1016/S0006-8993\(98\)00977-9](https://doi.org/10.1016/S0006-8993(98)00977-9).

Volkow, N.D. et al. (1999) 'Reinforcing Effects of Psychostimulants in Humans Are Associated with Increases in Brain Dopamine and Occupancy of D2Receptors', *Journal of Pharmacology and Experimental Therapeutics*, 291(1), pp. 409–415. Available at: <https://web.archive.org/web/20210517131243/http://jpet.aspetjournals.org/content/291/1/409>.

Volkow, N.D. et al. (2012a) 'Addiction Circuitry in the Human Brain', *Annual Review of Pharmacology and Toxicology*, 52(1), pp. 321–336. Available at: <https://doi.org/10.1146/annurev-pharmtox-010611-134625>.

Volkow, N.D. et al. (2012b) 'Addiction Circuitry in the Human Brain', *Annual Review of Pharmacology and Toxicology*, 52(1), pp. 321–336. Available at: <https://doi.org/10.1146/annurev-pharmtox-010611-134625>.

Weinstein, A.M. (2011) 'Pharmacological Treatment of Cannabis Dependence', *Current pharmaceutical design*, 17(14), pp. 1351–1358. Available at: <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3171994/>.

Wichmann, T. et al. (2011) 'Milestones in Research on the Pathophysiology of Parkinson's Disease', *Movement Disorders*, 26(6), pp. 1032–1041. Available at: <https://doi.org/10.1002/mds.23695>.

Wichmann, T. (2014) 'Oscillatory Neuronal Activity Patterns in Parkinson's Disease', *The Biomedical & Life Sciences Collection [Preprint]*. Available at: <https://hstalks.com/t/2820/oscillatory-neuronal-activity-patterns-in-parkinson/>.

Wichmann, T. and DeLong, M.R. (2006a) 'Deep Brain Stimulation for Neurologic and Neuropsychiatric Disorders', *Neuron*, 52(1), pp. 197–204. Available at: <https://doi.org/10.1016/j.neuron.2006.09.022>.

Wichmann, T. and DeLong, M.R. (2006b) 'Deep Brain Stimulation for Neurologic and Neuropsychiatric Disorders', *Neuron*, 52(1), pp. 197–204. Available at:

<https://doi.org/10.1016/j.neuron.2006.09.022>.

Widner, H. et al. (1992) 'Bilateral Fetal Mesencephalic Grafting in Two Patients With Parkinsonism Induced by 1-Methyl-4-Phenyl-L,2,3,6-Tetrahydropyridine (MPTP)', *New England Journal of Medicine*, 327(22), pp. 1556–1563. Available at: <https://doi.org/10.1056/NEJM199211263272203>.

Williams, C. (2018) 'The Secret of You', *New Scientist*, 239(3185), pp. 36–39. Available at: [https://doi.org/10.1016/S0262-4079\(18\)31211-9](https://doi.org/10.1016/S0262-4079(18)31211-9).

Zangen, A. (2006) 'Two Brain Sites for Cannabinoid Reward', *Journal of Neuroscience*, 26(18), pp. 4901–4907. Available at: <http://www.jneurosci.org/content/26/18/4901>.