## **TODO**

## References

- Armstrong-James, M., Fox, K., & Das-Gupta, A. (1992). Flow of excitation within rat barrel cortex on striking a single vibrissa. <u>Journal of Neurophysiology</u>, <u>68</u>(4), 1345–1358.
- Buffalo, E. A., Fries, P., Landman, R., Buschman, T. J., & Desimone, R. (2011). Laminar differences in gamma and alpha coherence in the ventral stream. <u>Proceedings of the National Academy of Sciences of the United States of America</u>, 108(27), 11262–11267.
- Buxhoeveden, D. P., & Casanova, M. F. (2002). The minicolumn hypothesis in neuroscience. Brain, 125(Pt 5), 935–951.
- Connors, B. W., Gutnick, M. J., & Prince, D. A. (1982). Electrophysiological properties of neo-cortical neurons in vitro. Journal of Neurophysiology, 48(6), 1302–1320.
- Douglas, R. J., & Martin, K. A. C. (2004). Neuronal circuits of the neocortex. <u>Annual Review of Neuroscience</u>, 27, 419–451.
- Elman, J. L. (1990). Finding structure in time. Cognitive Science, 14(2), 179–211.
- Felleman, D. J., & Van Essen, D. C. (1991). Distributed hierarchical processing in the primate cerebral cortex. Cerebral Cortex, 1(1), 1–47.
- Franceschetti, S., Guatteo, E., Panzica, F., Sancini, G., Wanke, E., & Avanzini, G. (1995). Ionic mechanisms underlying burst firing in pyramidal neurons: Intracellular study in rat sensorimotor cortex. Brain Research, 696(1–2), 127–139.
- Hirsch, J. A., & Martinez, L. M. (2006). Laminar processing in the visual cortical column. <u>Current</u> Opinion in Neurobiology, 16(4), 377–384.
- Horton, J. C., & Adams, D. L. (2005). The cortical column: A structure without a function. Philosophical Transactions of the Royal Society B, 360(1456), 837–862.
- Hubel, D. H., & Wiesel, T. N. (1977). Ferrier lecture. Functional architecture of macaque monkey visual cortex. Proceedings of the Royal Society B, 198(1130), 1–59.
- Hughes, S. W., Lorincz, M., Cope, D. W., Blethyn, K. L., Kekesi, K. A., Parri, H. R., Juhasz, G., & Crunelli, V. (2004). Synchronized oscillations at alpha and theta frequencies in the lateral geniculate nucleus. Neuron, 42(2), 253–268.
- Jones, E. G. (2000). Microcolumns in the cerebral cortex. <u>Proceedings of the National Academy</u> of Sciences of the United States of America, 97(10), 5019–5021.

- Lakatos, P., Karmos, G., Mehta, A. D., Ulbert, I., & Schroeder, C. E. (2008). Entrainment of neuronal oscillations as a mechanism of attentional selection. Science, 320(5872), 110–113.
- Lopes da Silva, F. (1991). Neural mechanisms underlying brain waves: from neural membranes to networks. Electroencephalography and Clinical Neurophysiology, 79(2), 81–93.
- Lorincz, M. L., Crunelli, V., & Hughes, S. W. (2008). Cellular dynamics of cholinergically induced alpha (8-13 hz) rhythms in sensory thalamic nuclei in vitro. <u>The Journal of Neuroscience</u>, <u>28</u>(3), 660–671.
- Lorincz, M. L., Kekesi, K. A., Juhasz, G., Crunelli, V., & Hughes, S. W. (2009). Temporal framing of thalamic relay-mode firing by phasic inhibition during the alpha rhythm. <u>Neuron</u>, <u>63</u>(5), 683–696.
- Luczak, A., Bartho, P., & Harris, K. D. (2013). Gating of sensory input by spontaneous cortical activity. The Journal of Neuroscience, 33(4), 1684–1695.
- Lumer, E., Edelman, G., & Tononi, G. (1997). Neural dynamics in a model of the thalamocortical system. I. Layers, loops and the emergence of fast synchronous rhythms. <u>Cerebral Cortex</u>, 7(3), 207–227.
- Mountcastle, V. B. (1997). The columnar organization of the neocortex. Brain, 120(Pt 4), 701–722.
- O'Reilly, R. C., & Munakata, Y. (2000). <u>Computational Explorations in Cognitive Neuroscience:</u> Understanding the Mind by Simulating the Brain. Cambridge, MA: The MIT Press.
- O'Reilly, R. C., Munakata, Y., Frank, M. J., Hazy, T. E., & Contributors (2012). Computational Cognitive Neuroscience. Wiki Book, 1st Edition, URL: http://ccnbook.colorado.edu.
- Rockland, K. S., & Pandya, D. N. (1979). Laminar origins and terminations of cortical connections of the occipital lobe in the rhesus monkey. Brain Research, 179(1), 3–20.
- Schroeder, C. E., & Lakatos, P. (2009). Low-frequency neuronal oscillations as instruments of sensory selection. Trends in Neurosciences, 32(1), 9–18.
- Servan-Schreiber, D., Cleeremans, A., & McClelland, J. L. (1991). Graded state machines: The representation of temporal contingencies in simple recurrent networks. <u>Machine Learning</u>, 7(2–3), 161–193.
- Silva, L. R., Amitai, Y., & Connors, B. W. (1991). Intrinsic oscillations of neocortex generated by layer 5 pyramidal neurons. <u>Science</u>, <u>251</u>(4992), 432–435.
- Spaak, E., Bonnefond, M., Maier, A., Leopold, D. A., & Jensen, O. (2012). Layer-specific entrainment of gamma-band neural activity by the alpha rhythm in monkey visual cortex. <u>Current Biology</u>, 22(24), 2313–2318.
- Stefanics, G., Hangya, B., Herndi, I., Winkler, I., Lakatos, P., & Ulbert, I. (2010). Phase entrainment of human delta oscillations can mediate the effects of expectation on reaction speed. <u>The Journal of Neuroscience</u>, 30(41), 13578–13585.
- Thomson, A. M. (2010). Neocortical layer 6, a review. Frontiers in Neuroanatomy, 4.
- Thomson, A. M., & Lamy, C. (2007). Functional maps of neocortical local circuitry. <u>Frontiers in</u> Neuroscience, 1(1), 19–42.

Will, U., & Berg, E. (2007). Brain wave synchronization and entrainment to periodic acoustic stimuli. Neuroscience letters, 424(1), 55–60.