

ICM6012: Cellular and Molecular Neuroscience

Academic year 2015-2016

View Online



1.
Nicholls, J.G.: From neuron to brain. Sinauer Associates, Sunderland, Mass (2012).

2.
Nicholls, J.G.: From neuron to brain. Sinauer Associates, Sunderland, Mass., U.S.A. (2001).

3.
Kandel, E.R., Schwartz, J.H., Jessell, T.M.: Principles of neural science. McGraw-Hill, Health Professions Division, New York (2000).

4.
Kandel, E.R., Schwartz, J.H., Jessell, T.M.: Principles of neural science. McGraw-Hill, Health Professions Division, New York (2000).

5.
Levitan, I.B., Kaczmarek, L.K.: The neuron: cell and molecular biology. Oxford University Press, New York (2002).

6.
Purves, D., Augustine, George, J., Fitzpatrick, D., Hall, William, C., LaMantia, A.-S., White, Leonard, E.: Neuroscience. Sinauer Associates, Sunderland, Mass (2012).

7.

Hille, B.: Ion channels of excitable membranes. Sinauer, Sunderland, Mass (2001).

8.

Shepherd, G.M.: The synaptic organization of the brain. Oxford University Press, New York (1998).

9.

The discovery of the neuron | Mo Costandi,
<https://neurophilosophy.wordpress.com/2006/08/29/the-discovery-of-the-neuron/>.

10.

Nociceptive and thermoreceptive lamina I neurons are anatomically distinct,
http://www.nature.com/neuro/journal/v1/n3/pdf/nn0798_218.pdf#page=1&zoom=auto,-73,792.

11.

Sabbatini, R.M.E.: Neurons and Synapses: The History,
http://www.cerebromente.org.br/n17/history/neurons1_i.htm.

12.

Buhl, Halasy & Somogyi (1994) Diverse sources of hippocampal unitary inhibitory postsynaptic potentials and the number of synaptic release sites. Nature 368: 823-828.

13.

Nicoll, RA (1994) Cajal's rational psychology. Nature 368: 808 (View on Buhl et al paper).

14.

Kandel, E.R., Markram, H., Matthews, P.M., Yuste, R., Koch, C.: Neuroscience thinks big (and collaboratively). *Nature Reviews Neuroscience*. 14, 659–664 (2013).
<https://doi.org/10.1038/nrn3578>.

15.

A technicolour approach to the connectome.

16.

Theodore H. Bullock, Michael V. L. Bennett, Daniel Johnston, Robert Josephson, Eve Marder and R. Douglas Fields: The Neuron Doctrine, Redux. *Science*. 310, 791–793 (2005).

17.

Targeting glia cells: novel perspectives for the treatment of neuropsychiatric diseases,
<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3637671/pdf/CN-11-171.pdf>.

18.

Integrated Brain Circuits: Astrocytic networks modulate neuronal activity and behavior,
<http://www.annualreviews.org.ezproxy.library.qmul.ac.uk/doi/pdf/10.1146/annurev-physiol-021909-135843>.

19.

Nicchitta, Christopher: Endoplasmic Reticulum, Protein Synthesis and Translocation Machinery. *The Endoplasmic Reticulum: Fundamentals and Role in Disease*. (2007).

20.

Byrne, J.H., Roberts, J.L.: From molecules to networks: an introduction to cellular and molecular neuroscience. Academic Press/Elsevier, Amsterdam (2009).

21.

Role of Axonal Transport in Neurodegenerative Diseases -

annurev.neuro.31.061307.090711,
<http://www.annualreviews.org/doi/pdf/10.1146/annurev.neuro.31.061307.090711>.

22.

Nicchitta, Christopher: Endoplasmic Reticulum, Protein Synthesis and Translocation Machinery. *The Endoplasmic Reticulum: Fundamentals and Role in Disease*. (2007).

23.

Synaptic Vesicle Exocytosis,
<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3225952/pdf/cshperspect-SYP-a005637.pdf>.

24.

Axonal transport deficits and neurodegenerative diseases - nrn3380.pdf,
<http://www.nature.com/nrnjournal/v14/n3/pdf/nrn3380.pdf>.

25.

Connor, J.A., Stevens, C.F.: Prediction of repetitive firing behaviour from voltage clamp data on an isolated neurone soma. *The Journal of Physiology*. 213,.

26.

Baker, M.D., Chandra, S.Y., Ding, Y., Waxman, S.G., Wood, J.N.: GTP-induced tetrodotoxin-resistant Na⁺ current regulates excitability in mouse and rat small diameter sensory neurones. *The Journal of Physiology*. 548, 373–382 (2003).
<https://doi.org/10.1111/j.1469-7793.2003.00373.x>.

27.

Nassar, M.A., Stirling, L.C., Forlani, G., Baker, M.D., Matthews, E.A., Dickenson, A.H., Wood, J.N.: Nociceptor-specific gene deletion reveals a major role for Nav1.7 (PN1) in acute and inflammatory pain. *Proceedings of the National Academy of Sciences*. 101, 12706–12711 (2004). <https://doi.org/10.1073/pnas.0404915101>.

28.

Fertleman, C.R., Baker, M.D., Parker, K.A., Moffatt, S., Elmslie, F.V., Abrahamsen, B., Ostman, J., Klugbauer, N., Wood, J.N., Gardiner, R.M., Rees, M.: SCN9A Mutations in Paroxysmal Extreme Pain Disorder: Allelic Variants Underlie Distinct Channel Defects and Phenotypes. *Neuron*. 52, 767–774 (2006). <https://doi.org/10.1016/j.neuron.2006.10.006>.

29.

Catterall, W.A., Yu, F.H.: Painful Channels. *Neuron*. 52, 743–744 (2006). <https://doi.org/10.1016/j.neuron.2006.11.017>.

30.

Cox, J.J., Reimann, F., Nicholas, A.K., Thornton, G., Roberts, E., Springell, K., Karbani, G., Jafri, H., Mannan, J., Raashid, Y., Al-Gazali, L., Hamamy, H., Valente, E.M., Gorman, S., Williams, R., McHale, D.P., Wood, J.N., Gribble, F.M., Woods, C.G.: An SCN9A channelopathy causes congenital inability to experience pain. *Nature*. 444, 894–898 (2006). <https://doi.org/10.1038/nature05413>.

31.

O'Keefe, J., Dostrovsky, J.: The hippocampus as a spatial map. Preliminary evidence from unit activity in the freely-moving rat. *Brain Research*. 34, 171–175 (1971). [https://doi.org/10.1016/0006-8993\(71\)90358-1](https://doi.org/10.1016/0006-8993(71)90358-1).

32.

O'Keefe, J.: Place units in the hippocampus of the freely moving rat. *Experimental Neurology*. 51, 78–109 (1976). [https://doi.org/10.1016/0014-4886\(76\)90055-8](https://doi.org/10.1016/0014-4886(76)90055-8).

33.

Marianne Fyhn, Sturla Molden, Menno P. Witter, Edvard I. Moser and May-Britt Moser: Spatial Representation in the Entorhinal Cortex. *Science*. 305, 1258–1264 (2004).

34.

Nakazawa, K., McHugh, T.J., Wilson, M.A., Tonegawa, S.: NMDA receptors, place cells and hippocampal spatial memory. *Nature Reviews Neuroscience*. 5, 361–372 (2004). <https://doi.org/10.1038/nrn1385>.

35.

Constitutive and induced neurogenesis in the adult mammalian brain: manipulation of endogenous precursors toward CNS repair. - PubMed - NCBI.

36.

Klein, C., Fishell, G.: Neural Stem Cells: Progenitors or Panacea? *Developmental Neuroscience*. 26, 82–92 (2004). <https://doi.org/10.1159/000082129>.

37.

Richardson, W.D.D., Pringle, N.P., Yu, W.-P., Hall, A.C.: Origins of Spinal Cord Oligodendrocytes: Possible Developmental and Evolutionary Relationships with Motor Neurons. *Developmental Neuroscience*. 19, 58–68 (1997). <https://doi.org/10.1159/000111186>.

38.

Stern, C.D.: Neural induction: old problem, new findings, yet more questions. *Development*. 132, 2007–2021 (2005). <https://doi.org/10.1242/dev.01794>.