

CLNE0004: Motor Systems and Disease

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1.
Krebs, J.E., Goldstein, E.S., Kilpatrick, S.T., Lewin, B.: Lewin's genes X. Jones and Bartlett, Sudbury, Mass (2011).
 2.
Wood, N.W.: Neurogenetics: a guide for clinicians. Cambridge University Press, Cambridge (2012).
 3.
Pritchard, D.J., Korf, B.R.: Medical genetics at a glance. Wiley (2013).
 4.
Robinson, T.R., Wiley InterScience (Online service): Genetics for dummies. Wiley Pub, Hoboken, NJ (2010).
 5.
Amthor, F.: Neuroscience for dummies. Wiley, Mississauga, Ont (2012).
 6.
Johns, P.: Clinical neuroscience: an illustrated colour text. Churchill Livingstone, Edinburgh (2014).

7.

Kratz, R.F.: Molecular & cell biology for dummies. Wiley, Hoboken, NJ (2009).

8.

Alberts, B., Bray, D., Hopkin, K., Johnson, A., Lewis, J., Raff, M.C., Roberts, K., Walter, P.: Essential cell biology. Garland Science, New York, NY (2014).

9.

Barker, R.A., Cicchetti, F., Robinson, E.S.J.: Neuroanatomy and neuroscience at a glance. Wiley Blackwell, Hoboken, NJ (2018).

10.

Levitan, I.B., Kaczmarek, L.K.: The neuron: cell and molecular biology. Oxford University Press, [New York] (2015).

11.

Kandel, E.R., Schwartz, J.H., Jessell, T.M., Siegelbaum, S., Hudspeth, A.J. eds: Principles of neural science. McGraw Hill Medical, New York (2013).

12.

Diamond, M.C., Scheibel, A.B., Elson, L.M.: The human brain coloring book. Barnes & Noble Books, New York (1985).

13.

Clarke, C., Howard, R., Rossor, M., Shorvon, S.D. eds: Neurology: a Queen Square textbook. Wiley Blackwell, Chichester, West Sussex, UK (2016).

14.

Castiello, U.: The neuroscience of grasping. Nature Reviews Neuroscience. 6, 726–736 (2005). <https://doi.org/10.1038/nrn1744>.

15.

Davare, M., Kraskov, A., Rothwell, J.C., Lemon, R.N.: Interactions between areas of the cortical grasping network. *Current Opinion in Neurobiology*. 21, 565–570 (2011). <https://doi.org/10.1016/j.conb.2011.05.021>.

16.

Gerbella, M., Rozzi, S., Rizzolatti, G.: The extended object-grasping network. *Experimental Brain Research*. 235, 2903–2916 (2017). <https://doi.org/10.1007/s00221-017-5007-3>.

17.

Goodale, M.A., Meenan, J.P., Bühlhoff, H.H., Nicolle, D.A., Murphy, K.J., Racicot, C.I.: Separate neural pathways for the visual analysis of object shape in perception and prehension. *Current Biology*. 4, 604–610 (1994). [https://doi.org/10.1016/S0960-9822\(00\)00132-9](https://doi.org/10.1016/S0960-9822(00)00132-9).

18.

Grafton, S.T.: The cognitive neuroscience of prehension: recent developments. *Experimental Brain Research*. 204, 475–491 (2010). <https://doi.org/10.1007/s00221-010-2315-2>.

19.

Jeannerod, M., Arbib, M.A., Rizzolatti, G., Sakata, H.: Grasping objects: the cortical mechanisms of visuomotor transformation. *Trends in Neurosciences*. 18, 314–320 (1995). [https://doi.org/10.1016/0166-2236\(95\)93921-J](https://doi.org/10.1016/0166-2236(95)93921-J).

20.

Johansson, R.S., Flanagan, J.R.: Coding and use of tactile signals from the fingertips in object manipulation tasks. *Nature Reviews Neuroscience*. 10, 345–359 (2009). <https://doi.org/10.1038/nrn2621>.

21.

Lemon, R.N.: Descending Pathways in Motor Control. *Annual Review of Neuroscience*. 31, 195–218 (2008). <https://doi.org/10.1146/annurev.neuro.31.060407.125547>.

22.

Picard, N., Strick, P.L.: Imaging the premotor areas. *Current Opinion in Neurobiology*. 11, 663–672 (2001). [https://doi.org/10.1016/S0959-4388\(01\)00266-5](https://doi.org/10.1016/S0959-4388(01)00266-5).

23.

Jellinger, K.A.: Neuropathology of sporadic Parkinson's disease: Evaluation and changes of concepts. *Movement Disorders*. 27, 8–30 (2012). <https://doi.org/10.1002/mds.23795>.

24.

Kumaran, R., Cookson, M.R.: Pathways to Parkinsonism Redux: convergent pathobiological mechanisms in genetics of Parkinson's disease. *Human Molecular Genetics*. 24, R32–R44 (2015). <https://doi.org/10.1093/hmg/ddv236>.

25.

Surmeier, D.J., Obeso, J.A., Halliday, G.M.: Selective neuronal vulnerability in Parkinson disease. *Nature Reviews Neuroscience*. 18, 101–113 (2017). <https://doi.org/10.1038/nrn.2016.178>.

26.

Walsh, D.M., Selkoe, D.J.: A critical appraisal of the pathogenic protein spread hypothesis of neurodegeneration. *Nature Reviews Neuroscience*. 17, 251–260 (2016). <https://doi.org/10.1038/nrn.2016.13>.

27.

Stefanis, L.: α -Synuclein in Parkinson's Disease. *Cold Spring Harbor Perspectives in Medicine*. 2, a009399–a009399 (2012). <https://doi.org/10.1101/cshperspect.a009399>.

28.

Burré, J.: The Synaptic Function of α -Synuclein. *Journal of Parkinson's Disease*. 5, 699–713 (2015). <https://doi.org/10.3233/JPD-150642>.

29.

Xilouri, M., Brekk, O.R., Stefanis, L.: Autophagy and Alpha-Synuclein: Relevance to Parkinson's Disease and Related Synucleopathies. *Movement Disorders*. 31, 178–192 (2016). <https://doi.org/10.1002/mds.26477>.

30.

Dehay, B., Vila, M., Bezdard, E., Brundin, P., Kordower, J.H.: Alpha-synuclein propagation: New insights from animal models. *Movement Disorders*. 31, 161–168 (2016). <https://doi.org/10.1002/mds.26370>.

31.

Roosen, D.A., Cookson, M.R.: LRRK2 at the interface of autophagosomes, endosomes and lysosomes. *Molecular Neurodegeneration*. 11, (2016). <https://doi.org/10.1186/s13024-016-0140-1>.

32.

Wolpert, D.M., Ghahramani, Z.: Computational principles of movement neuroscience. *Nature Neuroscience*. 3, 1212–1217 (2000). <https://doi.org/10.1038/81497>.

33.

Friston, K., Mattout, J., Kilner, J.: Action understanding and active inference. *Biological Cybernetics*. 104, 137–160 (2011). <https://doi.org/10.1007/s00422-011-0424-z>.

34.

Körding, K.P., Wolpert, D.M.: Bayesian decision theory in sensorimotor control. *Trends in Cognitive Sciences*. 10, 319–326 (2006). <https://doi.org/10.1016/j.tics.2006.05.003>.

35.

Johansson, R.S., Flanagan, J.R.: Sensory control of object manipulation. In: Nowak, D.A. and Hermsdorfer, J. (eds.) *Sensorimotor Control of Grasping*. pp. 141–160. Cambridge University Press, Cambridge (2009). <https://doi.org/10.1017/CBO9780511581267.012>.

36.

Sarlegna, F.R., Mutha, P.K.: The influence of visual target information on the online control of movements. *Vision Research*. 110, 144–154 (2015). <https://doi.org/10.1016/j.visres.2014.07.001>.

37.

Jakobson, L.S., Goodale, M.A.: Factors affecting higher-order movement planning: a kinematic analysis of human prehension. *Experimental Brain Research*. 86, (1991). <https://doi.org/10.1007/BF00231054>.

38.

Balendra, R., Patani, R.: Quo vadis motor neuron disease? *World Journal of Methodology*. 6, (2016). <https://doi.org/10.5662/wjm.v6.i1.56>.

39.

Bäumer, D., Talbot, K., Turner, M.R.: Advances in motor neurone disease. *Journal of the Royal Society of Medicine*. 107, 14–21 (2014). <https://doi.org/10.1177/0141076813511451>.

40.

Lemon, R.N.: Descending Pathways in Motor Control. *Annual Review of Neuroscience*. 31, 195–218 (2008). <https://doi.org/10.1146/annurev.neuro.31.060407.125547>.

41.

Dietz, V., Sinkjaer, T.: Spastic movement disorder: impaired reflex function and altered muscle mechanics. *The Lancet Neurology*. 6, 725–733 (2007). [https://doi.org/10.1016/S1474-4422\(07\)70193-X](https://doi.org/10.1016/S1474-4422(07)70193-X).

42.

Blackstone, C.: Hereditary spastic paraplegia. In: Neurogenetics, Part II. pp. 633–652. Elsevier (2018). <https://doi.org/10.1016/B978-0-444-64076-5.00041-7>.

43.

Mathias, C.J., Bannister, S.R. eds: Autonomic Failure. Oxford University Press (2013). <https://doi.org/10.1093/med/9780198566342.001.0001>.

44.

Iodice, V., Low, D.A., Vichayanrat, E., Mathias, C.J.: Cardiovascular autonomic dysfunction in MSA and Parkinson's disease: Similarities and differences. *Journal of the Neurological Sciences*. 310, 133–138 (2011). <https://doi.org/10.1016/j.jns.2011.07.014>.

45.

Iodice, V., Sandroni, P.: Autonomic Neuropathies. *CONTINUUM: Lifelong Learning in Neurology*. 20, 1373–1397 (2014). <https://doi.org/10.1212/01.CON.0000455875.76179.b1>.

46.

Institute of Neurology, Queen Square, National Hospital for Neurology and Neurosurgery (London, England): *Neurology: a Queen Square textbook*. John Wiley & Sons, Inc, Chichester, West Sussex, UK (2016).

47.

OMIM - Online Mendelian Inheritance in Man, <https://www.omim.org/>.

48.

Zrinzo, L.: The Role of Imaging in the Surgical Treatment of Movement Disorders. *Neuroimaging Clinics of North America*. 20, 125–140 (2010). <https://doi.org/10.1016/j.nic.2009.08.002>.

49.

Baev, K.V.: A New Conceptual Understanding of Brain Function: Basic Mechanisms of Brain-Initiated Normal and Pathological Behaviors. *Critical ReviewsTM in Neurobiology*. 19, 119–202 (2007). <https://doi.org/10.1615/CritRevNeurobiol.v19.i2-3.30>.

50.

Marsden, C.D., Obeso, J.A.: The functions of the basal ganglia and the paradox of stereotaxic surgery in Parkinson's disease. *Brain*. 117, 877–897 (1994). <https://doi.org/10.1093/brain/117.4.877>.

51.

Akram, H., Dayal, V., Mahlknecht, P., Georgiev, D., Hyam, J., Foltynie, T., Limousin, P., De Vita, E., Jahanshahi, M., Ashburner, J., Behrens, T., Hariz, M., Zrinzo, L.: Connectivity derived thalamic segmentation in deep brain stimulation for tremor. *NeuroImage: Clinical*. 18, 130–142 (2018). <https://doi.org/10.1016/j.nicl.2018.01.008>.