

# CLNE0004: Motor Systems and Disease

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1

Krebs JE, Goldstein ES, Kilpatrick ST, et al. Lewin's genes X. International ed. Sudbury, Mass: : Jones and Bartlett 2011.

<https://app.kortext.com/Shibboleth.sso/Login?entityID=https://shib-idp.ucl.ac.uk/shibboleth&target=https://app.kortext.com/borrow/323975>

2

Wood NW. Neurogenetics: a guide for clinicians. Cambridge: : Cambridge University Press 2012.

[http://ucl.alma.exlibrisgroup.com/view/action/uresolver.do?operation=resolveService&package\\_service\\_id=2910094060004761&institutionId=4761&customerId=4760](http://ucl.alma.exlibrisgroup.com/view/action/uresolver.do?operation=resolveService&package_service_id=2910094060004761&institutionId=4761&customerId=4760)

3

Pritchard DJ, Korf BR. Medical genetics at a glance. 3rd edition. Wiley 2013.

<https://bibliu.com/users/saml/samlUCL?RelayState=eyJjdXN0b21fbGF1bmNoX3VybCI6liMvdmlldy9ib29rcy85NzgxMTE4Njg5MDE4L2VwdWlvdT0VCUFMvY29udGVudHMuaHRtbCJ9>

4

Robinson TR, Wiley InterScience (Online service). Genetics for dummies. 2nd ed. Hoboken, NJ: : Wiley Pub 2010. <http://dx.doi.org/10.1002/9781118269275>

5

Amthor F. Neuroscience for dummies. Mississauga, Ont: : Wiley 2012.

6

Johns P. Clinical neuroscience: an illustrated colour text. Edinburgh: : Churchill Livingstone 2014. <https://www.clinicalkey.com/student/content/toc/3-s2.0-C20090355117>

7

Kratz RF. Molecular & cell biology for dummies. Hoboken, NJ: : Wiley 2009.

8

Alberts B, Bray D, Hopkin K, et al. Essential cell biology. Fourth edition. New York, NY: : Garland Science 2014.

9

Barker RA, Cicchetti F, Robinson ESJ. Neuroanatomy and neuroscience at a glance. Fifth edition. Hoboken, NJ: : Wiley Blackwell 2018.  
<https://bibliu.com/users/saml/samlUCL?RelayState=eyJjdXN0b21fbGF1bmNoX3VybyCI6liMvdmlldy9ib29rcy85NzgzMTE5MTY4NDIzL2VwdWlvt1BTL2Z0b2MuaHRtbCJ9>

10

Levitan IB, Kaczmarek LK. The neuron: cell and molecular biology. Fourth edition. [New York]: : Oxford University Press 2015.  
<http://dx.doi.org/10.1093/med/9780199773893.001.0001>

11

Kandel ER, Schwartz JH, Jessell TM, et al., editors. Principles of neural science. Fifth edition. New York: : McGraw Hill Medical 2013.  
[http://ucl.alma.exlibrisgroup.com/view/action/uresolver.do?operation=resolveService&package\\_service\\_id=2910131910004761&institutionId=4761&customerId=4760](http://ucl.alma.exlibrisgroup.com/view/action/uresolver.do?operation=resolveService&package_service_id=2910131910004761&institutionId=4761&customerId=4760)

12

Diamond MC, Scheibel AB, Elson LM. The human brain coloring book. 1st ed. New York: : Barnes & Noble Books 1985.

13

Clarke C, Howard R, Rossor M, et al., editors. Neurology: a Queen Square textbook. Second edition. Chichester, West Sussex, UK: : Wiley Blackwell 2016.  
<https://onlinelibrary.wiley.com/doi/book/10.1002/9781118486160>

14

Castiello U. The neuroscience of grasping. Nature Reviews Neuroscience 2005;**6**:726–36.  
doi:10.1038/nrn1744

15

Davare M, Kraskov A, Rothwell JC, et al. Interactions between areas of the cortical grasping network. Current Opinion in Neurobiology 2011;**21**:565–70.  
doi:10.1016/j.conb.2011.05.021

16

Gerbella M, Rozzi S, Rizzolatti G. The extended object-grasping network. Experimental Brain Research 2017;**235**:2903–16. doi:10.1007/s00221-017-5007-3

17

Goodale MA, Meenan JP, Bühlhoff HH, et al. Separate neural pathways for the visual analysis of object shape in perception and prehension. Current Biology 1994;**4**:604–10.  
doi:10.1016/S0960-9822(00)00132-9

18

Grafton ST. The cognitive neuroscience of prehension: recent developments. Experimental Brain Research 2010;**204**:475–91. doi:10.1007/s00221-010-2315-2

19

Jeannerod M, Arbib MA, Rizzolatti G, et al. Grasping objects: the cortical mechanisms of visuomotor transformation. Trends in Neurosciences 1995;**18**:314–20.  
doi:10.1016/0166-2236(95)93921-j

20

Johansson RS, Flanagan JR. Coding and use of tactile signals from the fingertips in object manipulation tasks. *Nature Reviews Neuroscience* 2009;**10**:345–59. doi:10.1038/nrn2621

21

Lemon RN. Descending Pathways in Motor Control. *Annual Review of Neuroscience* 2008;**31**:195–218. doi:10.1146/annurev.neuro.31.060407.125547

22

Picard N, Strick PL. Imaging the premotor areas. *Current Opinion in Neurobiology* 2001;**11**:663–72. doi:10.1016/S0959-4388(01)00266-5

23

Jellinger KA. Neuropathology of sporadic Parkinson's disease: Evaluation and changes of concepts. *Movement Disorders* 2012;**27**:8–30. doi:10.1002/mds.23795

24

Kumaran R, Cookson MR. Pathways to Parkinsonism Redux: convergent pathobiological mechanisms in genetics of Parkinson's disease. *Human Molecular Genetics* 2015;**24**:R32–44. doi:10.1093/hmg/ddv236

25

Surmeier DJ, Obeso JA, Halliday GM. Selective neuronal vulnerability in Parkinson disease. *Nature Reviews Neuroscience* 2017;**18**:101–13. doi:10.1038/nrn.2016.178

26

Walsh DM, Selkoe DJ. A critical appraisal of the pathogenic protein spread hypothesis of neurodegeneration. *Nature Reviews Neuroscience* 2016;**17**:251–60. doi:10.1038/nrn.2016.13

27

Stefanis L.  $\alpha$ -Synuclein in Parkinson's Disease. Cold Spring Harbor Perspectives in Medicine 2012;**2**:a009399–a009399. doi:10.1101/cshperspect.a009399

28

Burré J. The Synaptic Function of  $\alpha$ -Synuclein. Journal of Parkinson's Disease 2015;**5**:699–713. doi:10.3233/JPD-150642

29

Xilouri M, Brekk OR, Stefanis L. Autophagy and Alpha-Synuclein: Relevance to Parkinson's Disease and Related Synucleopathies. Movement Disorders 2016;**31**:178–92. doi:10.1002/mds.26477

30

Dehay B, Vila M, Bezard E, et al. Alpha-synuclein propagation: New insights from animal models. Movement Disorders 2016;**31**:161–8. doi:10.1002/mds.26370

31

Roosen DA, Cookson MR. LRRK2 at the interface of autophagosomes, endosomes and lysosomes. Molecular Neurodegeneration 2016;**11**. doi:10.1186/s13024-016-0140-1

32

Wolpert DM, Ghahramani Z. Computational principles of movement neuroscience. Nature Neuroscience 2000;**3**:1212–7. doi:10.1038/81497

33

Friston K, Mattout J, Kilner J. Action understanding and active inference. Biological Cybernetics 2011;**104**:137–60. doi:10.1007/s00422-011-0424-z

34

Körding KP, Wolpert DM. Bayesian decision theory in sensorimotor control. *Trends in Cognitive Sciences* 2006;**10**:319–26. doi:10.1016/j.tics.2006.05.003

35

Johansson RS, Flanagan JR. Sensory control of object manipulation. In: Nowak DA, Hermsdorfer J, eds. *Sensorimotor Control of Grasping*. Cambridge: : Cambridge University Press 2009. 141–60. doi:10.1017/CBO9780511581267.012

36

Sarlegna FR, Mutha PK. The influence of visual target information on the online control of movements. *Vision Research* 2015;**110**:144–54. doi:10.1016/j.visres.2014.07.001

37

Jakobson LS, Goodale MA. Factors affecting higher-order movement planning: a kinematic analysis of human prehension. *Experimental Brain Research* 1991;**86**. doi:10.1007/BF00231054

38

Balendra R, Patani R. Quo vadis motor neuron disease? *World Journal of Methodology* 2016;**6**. doi:10.5662/wjm.v6.i1.56

39

Bäumer D, Talbot K, Turner MR. Advances in motor neurone disease. *Journal of the Royal Society of Medicine* 2014;**107**:14–21. doi:10.1177/0141076813511451

40

Lemon RN. Descending Pathways in Motor Control. *Annual Review of Neuroscience* 2008;**31**:195–218. doi: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* 2007;**6**:725–33.  
doi:10.1016/S1474-4422(07)70193-X

42

Blackstone C. Hereditary spastic paraplegia. In: *Neurogenetics, Part II*. Elsevier 2018. 633–52. doi:10.1016/B978-0-444-64076-5.00041-7

43

Mathias CJ, Bannister SR, editors. *Autonomic Failure*. Oxford University Press 2013.  
doi:10.1093/med/9780198566342.001.0001

44

Iodice V, Low DA, Vichayanrat E, et al. Cardiovascular autonomic dysfunction in MSA and Parkinson's disease: Similarities and differences. *Journal of the Neurological Sciences* 2011;**310**:133–8. doi:10.1016/j.jns.2011.07.014

45

Iodice V, Sandroni P. Autonomic Neuropathies. *CONTINUUM: Lifelong Learning in Neurology* 2014;**20**:1373–97. doi: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*. Second edition. Chichester, West Sussex, UK: : John Wiley & Sons, Inc 2016.  
<https://onlinelibrary.wiley.com/doi/book/10.1002/9781118486160>

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* 2010;**20**:125–40. doi:10.1016/j.nic.2009.08.002

49

Baev KV. A New Conceptual Understanding of Brain Function: Basic Mechanisms of Brain-Initiated Normal and Pathological Behaviors. *Critical Reviews<sup>TM</sup> in Neurobiology* 2007;**19**:119–202. doi:10.1615/CritRevNeurobiol.v19.i2-3.30

50

Marsden CD, Obeso JA. The functions of the basal ganglia and the paradox of stereotaxic surgery in Parkinson's disease. *Brain* 1994;**117**:877–97. doi:10.1093/brain/117.4.877

51

Akram H, Dayal V, Mahlkecht P, et al. Connectivity derived thalamic segmentation in deep brain stimulation for tremor. *NeuroImage: Clinical* 2018;**18**:130–42. doi:10.1016/j.nicl.2018.01.008