

# CLNE0004: Motor Systems and Disease

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Akram, Harith et al. 'Connectivity Derived Thalamic Segmentation in Deep Brain Stimulation for Tremor'. *NeuroImage: Clinical* 18 (2018): 130–142. Web.

Alberts, Bruce et al. *Essential Cell Biology*. Fourth edition. New York, NY: Garland Science, 2014. Print.

Amthor, Frank. *Neuroscience for Dummies*. Mississauga, Ont: Wiley, 2012. Print.

Baev, Konstantin V. 'A New Conceptual Understanding of Brain Function: Basic Mechanisms of Brain-Initiated Normal and Pathological Behaviors'. *Critical ReviewsTM in Neurobiology* 19.2-3 (2007): 119–202. Web.

Balendra, Rubika, and Rickie Patani. 'Quo Vadis Motor Neuron Disease?' *World Journal of Methodology* 6.1 (2016): n. pag. Web.

Barker, Roger A., Francesca Cicchetti, and Emma S. J. Robinson. *Neuroanatomy and Neuroscience at a Glance*. Fifth edition. Hoboken, NJ: Wiley Blackwell, 2018. Web.  
<https://bibliu.com/users/saml/samlUCL?RelayState=eyJjdXN0b21fbGF1bmNoX3VybCI6IiMvdmlldy9ib29rcy85NzgxMTE5MTY4NDIzM2VwdWIvT1BTL2Z0b2MuHRtbCJ9>

Bäumer, Dirk, Kevin Talbot, and Martin R Turner. 'Advances in Motor Neurone Disease'. *Journal of the Royal Society of Medicine* 107.1 (2014): 14–21. Web.

Blackstone, Craig. 'Hereditary Spastic Paraparesis'. *Neurogenetics*, Part II. Vol. 148. Elsevier, 2018. 633–652. Web.  
<https://linkinghub.elsevier.com/retrieve/pii/B9780444640765000417>

Burré, Jacqueline. 'The Synaptic Function of  $\alpha$ -Synuclein'. *Journal of Parkinson's Disease* 5.4 (2015): 699–713. Web.

Castiello, Umberto. 'The Neuroscience of Grasping'. *Nature Reviews Neuroscience* 6.9 (2005): 726–736. Web.

Clarke, Charles et al., eds. *Neurology: A Queen Square Textbook*. Second edition. Chichester, West Sussex, UK: Wiley Blackwell, 2016. Web.  
<https://onlinelibrary.wiley.com/doi/10.1002/9781118486160>

Davare, Marco et al. 'Interactions between Areas of the Cortical Grasping Network'. *Current Opinion in Neurobiology* 21.4 (2011): 565–570. Web.

Dehay, Benjamin et al. 'Alpha-Synuclein Propagation: New Insights from Animal Models'.

Movement Disorders 31.2 (2016): 161–168. Web.

Diamond, Marian Cleeves, Arnold B. Scheibel, and Lawrence M. Elson. *The Human Brain Coloring Book*. 1st ed. Vol. 306. New York: Barnes & Noble Books, 1985. Print.

Dietz, Volker, and Thomas Sinkjaer. 'Spastic Movement Disorder: Impaired Reflex Function and Altered Muscle Mechanics'. *The Lancet Neurology* 6.8 (2007): 725–733. Web.

Friston, Karl, Jérémie Mattout, and James Kilner. 'Action Understanding and Active Inference'. *Biological Cybernetics* 104.1–2 (2011): 137–160. Web.

Gerbella, Marzio, Stefano Rozzi, and Giacomo Rizzolatti. 'The Extended Object-Grasping Network'. *Experimental Brain Research* 235.10 (2017): 2903–2916. Web.

Goodale, Melvyn A. et al. 'Separate Neural Pathways for the Visual Analysis of Object Shape in Perception and Prehension'. *Current Biology* 4.7 (1994): 604–610. Web.

Grafton, Scott T. 'The Cognitive Neuroscience of Prehension: Recent Developments'. *Experimental Brain Research* 204.4 (2010): 475–491. Web.

Institute of Neurology, Queen Square and National Hospital for Neurology and Neurosurgery (London, England). *Neurology: A Queen Square Textbook*. Ed. Charles Clarke et al. Second edition. Chichester, West Sussex, UK: John Wiley & Sons, Inc, 2016. Web. <<https://onlinelibrary.wiley.com/doi/book/10.1002/9781118486160>>.

Iodice, Valeria et al. 'Cardiovascular Autonomic Dysfunction in MSA and Parkinson's Disease: Similarities and Differences'. *Journal of the Neurological Sciences* 310.1–2 (2011): 133–138. Web.

Iodice, Valeria, and Paola Sandroni. 'Autonomic Neuropathies'. *CONTINUUM: Lifelong Learning in Neurology* 20 (2014): 1373–1397. Web.

Jakobson, L.S., and M.A. Goodale. 'Factors Affecting Higher-Order Movement Planning: A Kinematic Analysis of Human Prehension'. *Experimental Brain Research* 86.1 (1991): n. pag. Web.

Jeannerod, M. et al. 'Grasping Objects: The Cortical Mechanisms of Visuomotor Transformation'. *Trends in Neurosciences* 18.7 (1995): 314–320. Web.

Jellinger, Kurt A. 'Neuropathology of Sporadic Parkinson's Disease: Evaluation and Changes of Concepts'. *Movement Disorders* 27.1 (2012): 8–30. Web.

Johansson, Roland S., and J. Randall Flanagan. 'Coding and Use of Tactile Signals from the Fingertips in Object Manipulation Tasks'. *Nature Reviews Neuroscience* 10.5 (2009): 345–359. Web.

---. 'Sensory Control of Object Manipulation'. *Sensorimotor Control of Grasping*. Ed. Dennis A. Nowak and Joachim Hermsdorfer. Cambridge: Cambridge University Press, 2009. 141–160. Web.

<[https://www.cambridge.org/core/product/identifier/CBO9780511581267A020/type/book\\_part](https://www.cambridge.org/core/product/identifier/CBO9780511581267A020/type/book_part)>.

Johns, Paul. Clinical Neuroscience: An Illustrated Colour Text. Edinburgh: Churchill Livingstone, 2014. Web.  
<<https://www.clinicalkey.com/student/content/toc/3-s2.0-C20090355117>>.

Kandel, Eric R. et al., eds. Principles of Neural Science. Fifth edition. New York: McGraw Hill Medical, 2013. Web.  
<[http://ucl.alma.exlibrisgroup.com/view/action/uresolver.do?operation=resolveService&amp;package\\_service\\_id=2910131910004761&institutionId=4761&customerId=4760](http://ucl.alma.exlibrisgroup.com/view/action/uresolver.do?operation=resolveService&amp;package_service_id=2910131910004761&institutionId=4761&customerId=4760)>.

Körding, Konrad P., and Daniel M. Wolpert. 'Bayesian Decision Theory in Sensorimotor Control'. Trends in Cognitive Sciences 10.7 (2006): 319–326. Web.

Kratz, René Fester. Molecular & Cell Biology for Dummies. Hoboken, NJ: Wiley, 2009. Print.

Krebs, Jocelyn E. et al. Lewin's Genes X. International ed. Sudbury, Mass: Jones and Bartlett, 2011. Web.  
<<https://app.kortext.com/Shibboleth.sso/Login?entityID=https://shib-idp.ucl.ac.uk/shibboleth&target=https://app.kortext.com/borrow/323975>>.

Kumaran, Ravindran, and Mark R. Cookson. 'Pathways to Parkinsonism Redux: Convergent Pathobiological Mechanisms in Genetics of Parkinson's Disease'. Human Molecular Genetics 24.R1 (2015): R32–R44. Web.

Lemon, Roger N. 'Descending Pathways in Motor Control'. Annual Review of Neuroscience 31.1 (2008): 195–218. Web.

---. 'Descending Pathways in Motor Control'. Annual Review of Neuroscience 31.1 (2008): 195–218. Web.

Levitin, Irwin B., and Leonard K. Kaczmarek. The Neuron: Cell and Molecular Biology. Fourth edition. [New York]: Oxford University Press, 2015. Web.  
<<http://dx.doi.org/10.1093/med/9780199773893.001.0001>>.

Marsden, C. D., and J. A. Obeso. 'The Functions of the Basal Ganglia and the Paradox of Stereotaxic Surgery in Parkinson's Disease'. Brain 117.4 (1994): 877–897. Web.

Mathias, Christopher J., and Sir Roger Bannister, eds. Autonomic Failure. Vol. 1. Oxford University Press, 2013. Web.  
<<http://oxfordmedicine.com/view/10.1093/med/9780198566342.001.0001/med-9780198566342>>.

'OMIM - Online Mendelian Inheritance in Man'. N.p., n.d. Web. <<https://www.omim.org/>>. Picard, Nathalie, and Peter L Strick. 'Imaging the Premotor Areas'. Current Opinion in Neurobiology 11.6 (2001): 663–672. Web.

Pritchard, Dorian J., and Bruce R. Korf. Medical Genetics at a Glance. 3rd edition. Wiley, 2013. Web.  
<<https://bibliu.com/users/saml/samlUCL?RelayState=eyJjdXN0b21fbGF1bmNoX3VybCl6IiMvdmlldy9ib29rcy85NzgxMTE4Njg5MDExL2VwdWIvT0VCUFMvY29udGVudHMuaHRtbCJ9>>.

Robinson, T. R. and Wiley InterScience (Online service). *Genetics for Dummies*. 2nd ed. Hoboken, NJ: Wiley Pub, 2010. Web. <<http://dx.doi.org/10.1002/9781118269275>>.

Roosen, Dorien A., and Mark R. Cookson. 'LRRK2 at the Interface of Autophagosomes, Endosomes and Lysosomes'. *Molecular Neurodegeneration* 11.1 (2016): n. pag. Web.

Sarlegna, Fabrice R., and Pratik K. Mutha. 'The Influence of Visual Target Information on the Online Control of Movements'. *Vision Research* 110 (2015): 144–154. Web.

Stefanis, L. '-Synuclein in Parkinson's Disease'. *Cold Spring Harbor Perspectives in Medicine* 2.2 (2012): a009399-a009399. Web.

Surmeier, D. James, José A. Obeso, and Glenda M. Halliday. 'Selective Neuronal Vulnerability in Parkinson Disease'. *Nature Reviews Neuroscience* 18.2 (2017): 101–113. Web.

Walsh, Dominic M., and Dennis J. Selkoe. 'A Critical Appraisal of the Pathogenic Protein Spread Hypothesis of Neurodegeneration'. *Nature Reviews Neuroscience* 17.4 (2016): 251–260. Web.

Wolpert, Daniel M., and Zoubin Ghahramani. 'Computational Principles of Movement Neuroscience'. *Nature Neuroscience* 3.Supp (2000): 1212–1217. Web.

Wood, N. W. *Neurogenetics: A Guide for Clinicians*. Cambridge: Cambridge University Press, 2012. Web.

<[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)>.

Xilouri, Maria, Oeystein Roed Brekk, and Leonidas Stefanis. 'Autophagy and Alpha-Synuclein: Relevance to Parkinson's Disease and Related Synucleopathies'. *Movement Disorders* 31.2 (2016): 178–192. Web.

Zrinzo, Ludvic. 'The Role of Imaging in the Surgical Treatment of Movement Disorders'. *Neuroimaging Clinics of North America* 20.1 (2010): 125–140. Web.