

# CLNE0004: Motor Systems and Disease (Academic Year 2018/19)

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51 items

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## Pre-reading list for MSc Clinical Neuroscience/Neurology (13 items)

Pre-reading list for MSc Clinical Neuroscience/Neurology 15 items

The books on this list have been chosen as an introduction to various subjects on the course but please note that reading them is optional.

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## Neurogenetics (4 items)

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**Lewin's genes X** - Jocelyn E. Krebs, Elliott S. Goldstein, Stephen T. Kilpatrick, Benjamin Lewin, c2011

Book

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**Neurogenetics: a guide for clinicians** - N. W. Wood, 2012

Book

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**Medical genetics at a glance** - D. J. Pritchard, Bruce R. Korf, 2013

Book

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**Genetics for dummies** - T. R. Robinson, Wiley InterScience (Online service), c2010

Book

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## Basic Neuroscience (9 items)

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**Neuroscience for dummies** - Frank Amthor, c2012

Book

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**Clinical neuroscience: an illustrated colour text** - Paul Johns, c2014

Book

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**Molecular & cell biology for dummies** - René Fester Kratz, c2009

Book

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**Essential cell biology** - Bruce Alberts, Dennis Bray, Karen Hopkin, Alexander Johnson, Julian Lewis, Martin C. Raff, K. Roberts, Peter Walter, 2014

Book

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**Neuroscience at a glance** - Roger A. Barker, Stephen Barasi, M. J. Neal, 2003

Book

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**The neuron: cell and molecular biology** - Irwin B. Levitan, Leonard K. Kaczmarek, 2015

Book

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**Principles of neural science - 2013**[Book](#)

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**The human brain coloring book** - Marian Cleeves Diamond, Arnold B. Scheibel, Lawrence M. Elson, c1985

[Book](#)

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**Neurology: a Queen Square textbook - 2016**[Book](#)

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**Cortical control of the hand - Davare** (9 items)

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**The neuroscience of grasping** - Umberto Castiello, 2005-9

[Article](#) | Essential

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**Interactions between areas of the cortical grasping network** - Marco Davare, Alexander Kraskov, John C Rothwell, Roger N Lemon, 2011-08

[Article](#) | Essential

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**The extended object-grasping network** - Marzio Gerbella, Stefano Rozzi, Giacomo Rizzolatti, 2017-10

[Article](#) | Essential

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**Separate neural pathways for the visual analysis of object shape in perception and prehension** - Melvyn A. Goodale, John Paul Meenan, Heinrich H. Bülthoff, David A. Nicolle, Kelly J. Murphy,Carolynn I. Racicot, 1994-7

[Article](#) | Recommended

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**The cognitive neuroscience of prehension: recent developments** - Scott T. Grafton, 2010-8

[Article](#) | Essential

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**Grasping objects: the cortical mechanisms of visuomotor transformation** - M. Jeannerod, M.A. Arbib, G. Rizzolatti, H. Sakata, 1995-7

[Article](#) | Recommended

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**Coding and use of tactile signals from the fingertips in object manipulation tasks** - Roland S. Johansson, J. Randall Flanagan, 2009-5

[Article](#) | Essential

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**Descending Pathways in Motor Control** - Roger N. Lemon, 2008-07

[Article](#) | Recommended

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**Imaging the premotor areas** - Nathalie Picard, Peter L Strick, 2001-12

[Article](#)

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**Pathogenesis of Parkinson's Disease - Proukakis** (9 items)

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**Neuropathology of sporadic Parkinson's disease: Evaluation and changes of concepts** - Kurt A. Jellinger, 2012-01

Article

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**Pathways to Parkinsonism Redux: convergent pathobiological mechanisms in genetics of Parkinson's disease** - Ravindran Kumaran, Mark R. Cookson, 2015-10-15

Article

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**Selective neuronal vulnerability in Parkinson disease** - D. James Surmeier, José A. Obeso, Glenda M. Halliday, 2017-2

Article

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**A critical appraisal of the pathogenic protein spread hypothesis of neurodegeneration** - Dominic M. Walsh, Dennis J. Selkoe, 2016-4

Article

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**-Synuclein in Parkinson's Disease** - L. Stefanis, 2012-02-01

Article

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**The Synaptic Function of  $\alpha$ -Synuclein** - Jacqueline Burré, 2015-10-08

Article

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**Autophagy and Alpha-Synuclein: Relevance to Parkinson's Disease and Related Synucleopathies** - Maria Xilouri, Oeystein Roed Brekk, Leonidas Stefanis, 2016-02

Article

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**Alpha-synuclein propagation: New insights from animal models** - Benjamin Dehay, Miquel Vila, Erwan Bezard, Patrik Brundin, Jeffrey H. Kordower, 2016-02

Article

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**LRRK2 at the interface of autophagosomes, endosomes and lysosomes** - Dorien A. Roosen, Mark R. Cookson, 2016-12

Article

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## Motor control theories - Kilner (3 items)

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**Computational principles of movement neuroscience** - Daniel M. Wolpert, Zoubin Ghahramani, 2000-11-1

Article

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**Action understanding and active inference** - Karl Friston, Jérémie Mattout, James Kilner, 2011-2

Article | Don't worry about the equations!

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**Bayesian decision theory in sensorimotor control** - Konrad P. Körding, Daniel M. Wolpert, 2006-7

Article

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## Sensory control of action - Kilner (3 items)

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## Sensory control of object manipulation - Roland S. Johansson, J. Randall Flanagan

Chapter

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The influence of visual target information on the online control of movements - Fabrice R. Sarlegna, Pratik K. Mutha, 2015-05

Article

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Factors affecting higher-order movement planning: a kinematic analysis of human prehension - L.S. Jakobson, M.A. Goodale, 1991-8

Article

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## Clinical features of Motor Neuron Diseases - Patani (2 items)

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Quo vadis motor neuron disease? - Rubika Balendra, Rickie Patani, 2016

Article

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Advances in motor neurone disease - Dirk Bäumer, Kevin Talbot, Martin R Turner, 2014-01

Article

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## Spasticity and spastic paraplegia - Warner (3 items)

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Descending Pathways in Motor Control - Roger N. Lemon, 2008-07

Article

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Spastic movement disorder: impaired reflex function and altered muscle mechanics - Volker Dietz, Thomas Sinkjaer, 2007-08

Article

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Hereditary spastic paraplegia - Craig Blackstone

Chapter

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## Autonomic function - Iodice (3 items)

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Autonomic Failure - 2013-07

Book | Chapters on 'Management of postural hypotension' and 'Clinical features and evaluation of the primary chronic autonomic failure syndromes'

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Cardiovascular autonomic dysfunction in MSA and Parkinson's disease: Similarities and differences - Valeria Iodice, David A. Low, Ekawat Vichayanrat, Christopher J. Mathias, 2011-11

Article

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Autonomic Neuropathies - Valeria Iodice, Paola Sandroni, 2014-10

Article

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## Cerebellar disorders - Wood (2 items)

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Neurology: a Queen Square textbook - Institute of Neurology, Queen Square, National

Hospital for Neurology and Neurosurgery (London, England), 2016

Book

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OMIM - Online Mendelian Inheritance in Man

Website

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## **Surgery for movement disorders - Zrinzo** (4 items)

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**The Role of Imaging in the Surgical Treatment of Movement Disorders** - Ludvic Zrinzo, 2010-2

Article

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**A New Conceptual Understanding of Brain Function: Basic Mechanisms of Brain-Initiated Normal and Pathological Behaviors** - Konstantin V. Baev, 2007

Article

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**The functions of the basal ganglia and the paradox of stereotaxic surgery in Parkinson's disease** - C. D. Marsden, J. A. Obeso, 1994

Article

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**Connectivity derived thalamic segmentation in deep brain stimulation for tremor** - Harith Akram, Viswas Dayal, Philipp Mahlke, Dejan Georgiev, Jonathan Hyam, Thomas Foltynie, Patricia Limousin, Enrico De Vita, Marjan Jahanshahi, John Ashburner, Tim Behrens, Marwan Hariz, Ludvic Zrinzo, 2018

Article