

Mark Cook

MBBS, MD



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Education

MBBS	The University of Melbourne	1983
FRACP	Royal Australasian College of Physicians	1988
MD	The University of Melbourne	2000
FRCP	Royal College of Physicians	2015

Current Positions

Director	The Graeme Clark Institute	2017 – present
The Sir John Eccles Chair of Medicine	Department of Medicine, St. Vincent's, University of Melbourne	2010 – present
Professor & Director	Clinical Neurosciences Department, St. Vincent's Hospital	2002 – present

Awards

- Herman Lawrence Prize in Clinical Dermatology
- Ryan Prize in Clinical Medicine
- Annual Award, British Society of Neuroradiology
- Annual International Fellow, International Federation of Clinical Neurophysiology
- 'Shark Tank' Commercialisation contest, Epilepsy Foundation of America; 2015
- NH&MRC '10 of the Best' award; 2015

Fields of Expertise

- Clinical Neurology
- Epilepsy
- MRI Studies
- Neurophysiology

Brief Introduction

Director, The Graeme Clark Institute, The Sir John Eccles Chair of Medicine and Director of Clinical Neurosciences at St. Vincent's Hospital, Professor Cook specialises in the treatment of epilepsy. He is recognised internationally for his expertise in epilepsy management, particularly imaging and surgical planning.

After completing specialist training in Melbourne, he undertook an MD thesis while working as Brain Research Fellow at Queen Square, London. He returned to St. Vincent's Hospital, Melbourne to continue his interest in neuroimaging in epilepsy.

Under his directorship, both the research and clinical components of the Neurology Department at St Vincent's have been significantly enlarged. Currently one of the largest units in Australia for the surgical treatment of epilepsy, this was a direct extension of work he began in London, where he developed techniques for the accurate measurement of hippocampal volumes, and established their position in non-invasive assessment of surgical candidates. More recently his interests have included experimental models of epilepsy and seizure prediction.

Publications

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2. Bauquier, S. H., et al. (2017). "Evaluation of the biocompatibility of polypyrrole implanted subdurally in GAERS." *Macromolecular bioscience* 17(5).
3. Benovitski, Y., et al. (2017). "Ring and peg electrodes for minimally-invasive and long-term sub-scalp EEG recordings." *Epilepsy Research* 135: 29-37.
4. Bourke, J. L., et al. (2017). "Three-dimensional neural cultures produce networks that mimic native brain activity." *Journal of Tissue Engineering and Regenerative Medicine*.
5. Fratti, S., et al. (2017). "Reliability and validity of the CogState computerized battery in patients with seizure disorders and healthy young adults: comparison with standard neuropsychological tests." *The Clinical Neuropsychologist* 31(3): 569-586.
6. Freestone, D. R., et al. (2017). "A forward-looking review of seizure prediction." *Current opinion in neurology* 30(2): 167-173.
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9. Goldenholz, D. M., et al. (2017). "Simulating clinical trials with and without intracranial EEG data." *Epilepsia Open*.

10. Karoly, P. J., et al. (2017). "Bursts of seizures in long-term recordings of human focal epilepsy." *Epilepsia* 58(3): 363-372.
11. Karoly, P. J., et al. (2017). "The circadian profile of epilepsy improves seizure forecasting." *Brain* 140(8): 2169-2182.
12. Kuhlmann, L., et al. (2017). Special Issue on Epilepsy Mechanisms, Models, Prediction and Control, WORLD SCIENTIFIC PUBL CO PTE LTD 5 TOH TUCK LINK, SINGAPORE 596224, SINGAPORE.
13. O'Sullivan-Greene, E., et al. (2017). "Probing to Observe Neural Dynamics Investigated with Networked Kuramoto Oscillators." *International journal of neural systems* 27(01): 1650038.
14. Seneviratne, U., et al. (2017). "EEG correlates of seizure freedom in genetic generalized epilepsies." *Neurology: Clinical Practice* 7(1): 35-44.
15. Seneviratne, U., et al. (2017). "Can Eeg differentiate among syndromes in genetic generalized epilepsy?" *Journal of Clinical Neurophysiology* 34(3): 213-221.
16. Viaña, J. N. M., et al. (2017). "Currents of memory: recent progress, translational challenges, and ethical considerations in fornix deep brain stimulation trials for Alzheimer's disease." *Neurobiology of Aging*.
17. Maryam Zoghi, Terence J. O'Brien, Patrick Kwan, Mark J. Cook, Mary Galea, Shapour Jaberzadeh: *Cathodal transcranial direct current stimulation for treatment of drug-resistant temporal lobe epilepsy: a pilot randomised controlled trial*. 09/2016; DOI:10.1002/epi4.12020
18. S.M. Jessica Beh, Mark J. Cook, Wendyl J. D'Souza: *Isolated amygdala enlargement in temporal lobe epilepsy: A systematic review*. *Epilepsy & Behavior* 07/2016; 60. DOI:10.1016/j.yebeh.2016.04.015
19. Dean R. Freestone, Kelvin J. Layton, Levin Kuhlmann, Mark J. Cook: *STATISTICAL PERFORMANCE ANALYSIS OF DATA-DRIVEN NEURAL MODELING*. *International Journal of Neural Systems* 06/2016; DOI:10.1142/S0129065716500453
20. Sebastien H. Bauquier, Jonathan L. Jiang, Alan Lai, Mark J. Cook: *Clonic Seizures in GAERS Rats after Oral Administration of Enrofloxacin*. *Comparative medicine* 06/2016; 66(3).
21. Rikky Muller, Zhilian Yue, Sara Ahmadi, Winston Ng, Willo M. Grosse, Mark J. Cook, Gordon G. Wallace, Simon E. Moulton: *Development and Validation of a Seizure Initiated Drug Delivery System for the Treatment of Epilepsy*. *Sensors and Actuators B Chemical* 06/2016; DOI:10.1016/j.snb.2016.06.038
22. Maryam Zoghi, Terence J. O'Brien, Patrick Kwan, Mark J. Cook, Mary Galea, Shapour Jaberzadeh: *The Effects of Cathodal Transcranial Direct Current Stimulation in a Patient with Drug-Resistant Temporal Lobe Epilepsy (Case Study)*. *Brain Stimulation* 06/2016; DOI:10.1016/j.brs.2016.05.011
23. Jared Cooney Horvath, Simon J. Vogrin, Olivia Carter, Mark J. Cook, Jason D. Forte: *Effects of a common transcranial direct current stimulation (tDCS) protocol on motor evoked potentials found to be highly variable within individuals over 9 testing sessions*. *Experimental Brain Research* 05/2016; 234. DOI:10.1007/s00221-016-4667-8
24. Elma O'Sullivan-Greene, Levin Kuhlmann, Ewan S. Nurse, Dean R. Freestone, David B. Grayden, Mark Cook, Anthony Burkitt, Iven Mareels: *Probing to Observe Neural Dynamics Investigated with Networked Kuramoto Oscillators*. *International Journal of Neural Systems* 04/2016; DOI:10.1142/S0129065716500386
25. Stephan Lau, Daniel Güllmar, Lars Flemming, David B. Grayden, Mark J. Cook, Carsten H. Wolters, Jens Haueisen: *Skull Defects in Finite Element Head Models for Source*

- Reconstruction from Magnetoencephalography Signals*. *Frontiers in Neuroscience* 03/2016; 10. DOI:10.3389/fnins.2016.00141
26. Philippa Jane Karoly, Dean Robert Freestone, Ray Boston, David Bruce Grayden, David Himes, Kent Leyde, Udaya Seneviratne, Samuel Berkovic, Terence O'Brien, Mark J. Cook: *Interictal spikes and epileptic seizures: their relationship and underlying rhythmicity*. *Brain* 02/2016; DOI:10.1093/brain/aww019
 27. Moksh Sethi, Mark Cook, Kenneth D. Winkel: *Persistent anosmia and olfactory bulb atrophy after mulga (Pseudechis australis) snakebite*. *Journal of Clinical Neuroscience* 02/2016; DOI:10.1016/j.jocn.2015.12.019
 28. Sebastien H. Bauquier, Jonathan L. Jiang, Zhilian Yue, Alan Lai, Yu Chen, Simon E. Moulton, Karen J. McLean, Sara Vogrin, Amy J. Halliday, Gordon Wallace, Mark J. Cook: *Antiepileptic Effects of Lacosamide Loaded Polymers Implanted Subdurally in GAERS*. *International Journal of Polymer Science* 01/2016; 2016(2):1-10. DOI:10.1155/2016/6594960
 29. Mark J Cook, Philippa J Karoly, Dean R Freestone, David Himes, Kent Leyde, Samuel Berkovic, Terence O'Brien, David B Grayden, Ray Boston: *Human focal seizures are characterized by populations of fixed duration and interval*. *Epilepsia* 12/2015; 57(3). DOI:10.1111/epi.13291
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 31. Christian Meisel, Andreas Schulze-Bonhage, Dean Freestone, Mark James Cook, Peter Achermann, Dietmar Plenz: *Intrinsic excitability measures track antiepileptic drug action and uncover increasing/decreasing excitability over the wake/sleep cycle*. *Proceedings of the National Academy of Sciences* 11/2015; DOI:10.1073/pnas.1513716112
 32. Dean R. Freestone, Philippa J. Karoly, Andre D. H. Peterson, Levin Kuhlmann, Alan Lai, Farhad Goodarzy, Mark J. Cook: *Seizure Prediction: Science Fiction or Soon to Become Reality?*. *Current Neurology and Neuroscience Reports* 11/2015; 15(11).DOI:10.1007/s11910-015-0596-3
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 37. Michael Tan, Ian Wilson, Vanessa Braganza, Sophia Ignatiadis, Ray Boston, Vijaya Sundararajan, Mark J Cook, Wendyl J D'Souza: *Epilepsy & Behavior*. *Epilepsy & Behavior* 08/2015; 51:65-72. DOI:10.1016/j.yebeh.2015.06.031

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41. Udaya Seneviratne, Graham Hepworth, Mark Cook, Wendyl D'Souza: *Atypical EEG abnormalities in genetic generalized epilepsies.* Clinical neurophysiology: official journal of the International Federation of Clinical Neurophysiology 06/2015; DOI:10.1016/j.clinph.2015.05.031
42. Jordan T Kamel, David J Goodman, Kathy Howe, Mark J Cook, Glenn M Ward, Les J Roberts: *Assessment of the relationship between hypoglycaemia awareness and autonomic function following islet cell/pancreas transplantation: Autonomic Function Following Transplant.* Diabetes/Metabolism Research and Reviews 04/2015; 31(6). DOI:10.1002/dmrr.2652
43. Karen-leigh Edward, Mark Cook, Jo-Ann Giandinoto: *An integrative review of the benefits of self-management interventions for adults with epilepsy.* Epilepsy & Behavior 04/2015; 45. DOI:10.1016/j.yebeh.2015.01.026
44. Jared Cooney Horvath, Simon J Vogrin, Olivia Carter, Mark J Cook, Jason D Forte: *Effects of transcranial direct current stimulation on motor evoked potential amplitude are neither reliable nor significant within individuals over 9 separate testing sessions.* 03/2015; 8(2-2):318. DOI:10.1016/j.brs.2015.01.033
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46. Jordan T. Kamel, Radwa A.B. Badawy, Mark J. Cook: *Exercise-induced seizures and lateral asymmetry in patients with temporal lobe epilepsy.* Epilepsy and Behavior Case Reports 12/2014; 2(1):26–30. DOI:10.1016/j.ebcr.2013.12.004
47. Matthew McKenzie, Maria Chiotis, Jana Hroudová, Maria I. G. Lopez Sanchez, Sze Chern Lim, Mark J. Cook, Penny McKelvie, Richard G. H. Cotton, Michael Murphy, Justin C. St John, Ian A. Trounce: *Capture of Somatic mtDNA Point Mutations with Severe Effects on Oxidative Phosphorylation in Synaptosome Cybrid Clones from Human Brain.* Human Mutation 12/2014; 35(12). DOI:10.1002/humu.22694
48. Dean Robert Freestone, Philippa Jane Karoly, Dragan Nestic, Parham Aram, Mark James Cook, David Bruce Grayden: *Estimation of Effectivity Connectivity via Data-Driven Neural Modeling.* Frontiers in Neuroscience 11/2014; 8(383). DOI:10.3389/fnins.2014.00383
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53. J T Kamel, S J Vogrin, R J Knight-Sadler, N K Willems, L. Seiderer, M J Cook, R J MacIsaac, L J Roberts: *Combining cutaneous silent periods with quantitative sudomotor axon reflex testing in the assessment of diabetic small fiber neuropathy*. *Clinical Neurophysiology* 06/2014; 126(5). DOI:10.1016/S1388-2457(14)50106-X
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- Medicine and Biology Society. Conference 07/2013; 2013:6151-6154. DOI:10.1109/EMBC.2013.6610957
65. Dean R Freestone, Dragan Nestic, Amirhossein Jafarian, Mark J Cook, David B Grayden: *A neural mass model of spontaneous burst suppression and epileptic seizures*. Conference proceedings: ... Annual International Conference of the IEEE Engineering in Medicine and Biology Society. IEEE Engineering in Medicine and Biology Society. Conference 07/2013; 2013:5942-5945. DOI:10.1109/EMBC.2013.6610905
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