

Curriculum vitae:

Full name: Jason N. D. Kerr

Nationality: New Zealand

Current address: Dept. Behavior & Brain Organization
Centre of Advanced European Studies and Research (CAESAR)
Ludwig-Erhard-Allee 2
53175 Bonn, Germany

Email: jason.kerr@caesar.de

Education:

- 1995 - 99 Ph.D. (Neurophysiology) Dept. Anatomy & Structural Biology, Otago University, Dunedin, New Zealand. (Supervisor: Jeff Wickens)
- 1994 - 95 DipSci (Human Anatomy) Dept. Anatomy & Structural Biology, Otago University, Dunedin, New Zealand.
- 1989 - 94 BSc (Human Anatomy) Dept. Anatomy & Structural Biology, Otago University, Dunedin, New Zealand.

Appointments:

- 2013-present Director, Dept. Behavior and Brain Organization, Center of Advanced European Studies And Research (Caesar), Bonn, Germany
- 2013-present Scientific member of the Max-Planck-Society
- 2006-2013 Group Leader. Network Imaging Group, Max Planck Institute for Biological Cybernetics, Tübingen, Germany.
- 2003-2006 Postdoctoral fellow in Dept. Cell Physiology, Max Planck Institute for Medical Research, Heidelberg, Germany.
- 1999- 2003 Postdoctoral fellow, Unit of Neural Network Physiology, Laboratory of Systems Neuroscience, National Institute of Mental Health, Bethesda, MD, USA.
- 1998-1999 Assistant Lecturer (non-tenure), Dept. Anatomy and Structural Biology, Otago University, Dunedin, New Zealand.

Honors, Awards:

- 2013 "Leica Scientific Forum" June 2013 speaker for UCSD UCLA UCSF
2013 Roger Eckert Lecture 2013 German Neuroscience Meeting, Göttingen
2001 NIH Fellows Award for research excellence (FARE), USA
1997-1998 Neurological Foundation Scholarships
1995-1997 Neurological Foundation Miller Scholarship

Selected Publications:

Wallace, D. J*., Greenberg, D. S*., Sawinski, J*., Rulla, S., Notaro, G., & Kerr J. N. D. (2013). "Rats maintain an overhead binocular field at the expense of constant fusion". *Nature*. 498, 65-69.

Pawlak, V., Greenberg, D. S., Sprekeler, H., Gerstner, W. & Kerr, J. N. D. (2013) "Changing the responses of cortical neurons from sub- to suprathreshold using single spikes in vivo" *eLife* 2, e00012

Mittmann, W., Wallace, D. J., Czubayko, U., Herb, J. T., Schaefer, A. T., Looger, L. L., Denk, W. & Kerr, J. N. D. (2011) "Two-photon calcium imaging of evoked activity from L5 somatosensory neurons in vivo" *Nature Neuroscience* 14, 1089-1093

Sawinski, J.*, Wallace, D. J.*, Greenberg, D. S.*, Grossmann, S., Denk, W. & Kerr, J. N. D. (2009) "Visually evoked activity in cortical cells imaged in freely moving animals" *PNAS* 106, 19557-19562

Greenberg, D. S.*, Houweling, A. R.* & Kerr, J. N. D. (2008) "Population imaging of ongoing neuronal activity in the visual cortex of awake rats" *Nature Neuroscience* 11, 749-751

Kerr, J. N. D. & Denk, W. (2008) "Imaging *in vivo*: watching the brain in action" *Nature Reviews Neuroscience* 9, 195-205

Kerr, J. N. D., Greenberg, D. & Helmchen, F. (2005) "Imaging input and output of neocortical networks in vivo" *PNAS* 102, 14063-14068

Kerr, J. N. D. & Wickens, J. R. (2001) "Dopamine D-1/D-5 receptor activation is required for long-term potentiation in the rat neostriatum in vitro" *Journal of Neurophysiology* 85, 117-124