

Curriculum vitae:

Full name: Jason N. D. Kerr

Nationality: New Zealand

Current address: Dept. Behavior & Brain Organization

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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:

2022 - present Director, Dept. Behavior and Brain Organization, Max Planck Institute for Neurobiology of Behavior – caesar, Bonn, Germany

2019 - present W3 Professor, Behavior and Brain Organization, University of Bonn

2013 - 2021 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, Germany

2006 - 2013 Independent Group Leader, Network Imaging Group, Max Planck Institute for Biological Cybernetics, Tübingen, Germany.

2005 - 2006 Project leader in Dept. Cell Physiology, Max Planck Institute for Medical Research, Heidelberg, Germany. Head of Dept: Prof. Bert Sakmann.

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- 2003 - 2005 Postdoctoral fellow with Dr. Fritjof Helmchen, Dept. Cell Physiology, Max Planck Institute for Medical Research, Heidelberg, Germany. Head of Dept: Prof. Bert Sakmann.
- 1999 - 2003 Postdoctoral fellow, Unit of Neural Network Physiology, Laboratory of Systems Neuroscience, National Institute of Mental Health, Bethesda, MD, USA. Lab head: Dr. Dietmar Plenz.
- 1998 - 1999 Assistant Lecturer (non-tenure), Dept. Anatomy and Structural Biology, Otago University, Dunedin, New Zealand. (Human Gross Anatomy)
- 1997 - 1998 Senior tutor and Demonstrator coordinator in Human Gross Anatomy, 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 Scholarship
- 1995 - 1997 Neurological Foundation Miller Scholarship

Selected Publications:

Holmgren, C.D., Stahr, P., Wallace, D.J., Voit, K.-M., Matheson, E.J., Sawinski, J., Bassetto, G., and Kerr, J.N. (2021). Visual pursuit behavior in mice maintains the pursued prey on the retinal region with least optic flow. *Elife* 10, e70838.

Klioutchnikov, A., Wallace, D.J., Frosz, M.H., Zeltner, R., Sawinski, J., Pawlak, V., Voit, K.-M., Russell, P.S.J., and Kerr, J. (2020). Three-photon head-mounted microscope for imaging deep cortical layers in freely moving rats. *Nature methods* 17, 509–513.

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.

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.