

James Poulet

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Neural Circuits and Behavior
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Curriculum vitae

since 2009	Group leader, Max Delbrück Center for Molecular Medicine (MDC), Berlin-Buch
2005 - 2009	Postdoctoral scientist (lab of Prof. Carl Petersen), Brain Mind Institute, École Polytechnique Fédérale de Lausanne, Switzerland
2003 - 2005	Postdoctoral scientist (lab of Dr. Berthold Hedwig), Cambridge University, UK
1998 - 2002	PhD (Dr. Berthold Hedwig), Cambridge University, UK
1995 - 1998	1 st class honors degree in Biology, University of Bristol, UK

Research fields

Our lab is active in the field of in vivo systems neuroscience. We are interested in:

- Synaptic and cellular mechanisms of somatosensory processing and perception
- Thermo-tactile perceptual binding
- Cortical sensorimotor transformation
- Mouse forepaw behavior

Activities in the scientific community, honors, awards

2016	European Research Council consolidator grant
2013	Paul Ehrlich und Ludwig Darmstaedter prize for junior researchers
2010	European Research Council starting grant
2005	Human Frontier Science Program, Long-Term Fellowship
2004	Young Investigator Award: International Society for Neuroethology
2003	Thomas Henry Huxley Award: Letter of Commendation, Zoological Society of London
2002	Rolleston Memorial Prize, Biannual Oxford University Biology Prize
2002	Gedge Prize, Biannual Cambridge University Physiology Prize

Selected publications

Jouhanneau JS, Kremkow J, Dorn AL, Poulet JF. In Vivo Monosynaptic Excitatory Transmission between Layer 2 Cortical Pyramidal Neurons. *Cell Rep.* 2015;13(10):2098-106.

Milenkovic N, Zhao WJ, Walcher J, Albert T, Siemens J, Lewin GR, Poulet JF. A somatosensory circuit for cooling perception in mice. *Nat Neurosci.* 2014;17(11):1560-6.

Jouhanneau JS, Ferrarese L, Estebanez L, Audette NJ, Brecht M, Barth AL, Poulet JF. Cortical fosGFP expression reveals broad receptive field excitatory neurons targeted by POM. *Neuron.* 2014;84(5):1065-78.

Poulet JF, Fernandez LM, Crochet S, Petersen CC. Thalamic control of cortical states. *Nat Neurosci*. 2012;15(3):370-2.

Barth AL, Poulet JF. Experimental evidence for sparse firing in the neocortex. *Trends Neurosci*. 2012;35(6):345-55.

Maier N, Tejero-Cantero A, Dornn AL, Winterer J, Beed PS, Morris G, Kempter R, Poulet JF, Leibold C, Schmitz D. Coherent phasic excitation during hippocampal ripples. *Neuron*. 2011;72(1):137-52.

Poulet JF, Petersen CC. Internal brain state regulates membrane potential synchrony in barrel cortex of behaving mice. *Nature*. 2008;454(7206):881-5.