

Joshua Patrick Johansen



Current Position

Head, Laboratory for Neural Circuitry of Memory
RIKEN Brain Science Institute
2-1 Hirosawa, Wako-shi, Saitama, 351-01, Japan

Education

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| 10/2007-8/2011 | New York University
Postdoctoral fellowship |
| 6/2007 | University of California, Los Angeles
Completed Ph.D. in Neuroscience |
| 1996-1998 | University of Colorado, Boulder
Bachelor of Arts in Psychology, Magna Cum Laude |

Awards and Honors

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| 2008 | Ruth L. Kirschstein NRSA (NIH) postdoctoral fellowship |
| 2007 | UCLA Kavan Award for excellence in neuroscience research |
| 2006 | Society for Neuroscience Travel Award |
| 2004 | National Science Foundation Graduate Research Fellowship |

Reviewer Service

Journals: Nature, Journal of Neuroscience, Journal of Neurophysiology, Journal of Neuroscience Research, Frontiers in Behavioral Neuroscience (also on Editorial Board)

Publications

Johansen, J.P., Ostroff, L., Cain, C.K., LeDoux, J.E. Molecular mechanisms of fear learning and memory. *Cell*, In Press

Johansen, J.P., Wolf, S.B.E., Luthi, A. & LeDoux, J.E. Controlling the elements: an optogenetic approach to understanding the neural circuits of fear. *Biological Psychiatry*, In Press

McNally, G.P., **Johansen, J.P.** & Blair, H.T. Placing prediction into the fear circuit. *Trends in Neuroscience* 2011, 13: 283-292

Johansen, J.P., Tarpley, J.W., Ledoux, J.E., Blair, H.T. Neural substrates for expectancy-modulated fear learning in the amygdala and periaqueductal gray. *Nature Neuroscience* 2010, 13: 979-986

Johansen, J.P., Hamanaka, H., Monfils, M.H., Behnia, R., Deisseroth, K., Blair, H.T., LeDoux, J.E. Optical activation of lateral amygdala pyramidal cells instructs associative fear learning. *Proceedings of the National Academy of Sciences* 2010, 107(28): 12692-12697
Featured in Nature Photonics 4, 581 2010

Schiller, D & **Johansen, J.P.** Prelimbic prefrontal neurons drive fear expression: a clue for extinction--reconsolidation interactions. *Journal of Neuroscience* 2009; 29(43):13432-4

Meng, I. D., **Johansen, J. P.**, Fields, H. L. Kappa opioids inhibit physiologically identified medullary pain modulating neurons and reduce morphine antinociception. *Journal of Neurophysiology* 2005; 93(3): 1138-44

Johansen, J.P. & Fields, H.L. Glutamatergic activation of anterior cingulate cortex produces an aversive teaching signal. *Nature Neuroscience* 2004; 7(4):398-403.

Meng, I.D. & **Johansen, J. P.** Antinociception and modulation of rostral ventromedial medulla neuronal activity by local infusion of a cannabinoid agonist. *Neuroscience* 2004; 124(3):685-93

Johansen, J. P., Fields, H L, Manning, B M. The affective component of pain in rodents: Direct evidence for a contribution of the anterior cingulate cortex. *Proceedings of the National Academy of Sciences* 2001; 98(14)8077-8082.
Featured in Nature Reviews Neuroscience 2, 536 (2001)

Frerking, M; Schmitz, D; Zhou, Q; **Johansen, J.**; Nicoll, RA. Kainate receptors depress excitatory synaptic transmission at CA3 -> CA1 synapses in the hippocampus via a direct presynaptic action. *Journal of Neuroscience*, May 1, 2001, 21(9):2958-2966.