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Publications

1. Sidor MM, Davidson TJ, Tye KM, **Warden MR**, Deisseroth K, McClung CA. In vivo optogenetic stimulation of the rodent central nervous system. *Submitted*.
2. Sidor MM, Spencer S, Dzirasa K, Parekh PK, Tye KM, **Warden MR**, Arey R, Enwright JF, Jacobsen JPR, Kumar S, Remillard EM, Caron M, Deisseroth K, McClung, CA. Daytime spikes in tyrosine hydroxylase and dopaminergic activity underlie rapid cycling of mania and euthymic-like behavior. *Submitted*.
3. **Warden MR**, Cardin JA, Deisseroth K. Optical Neural Interfaces. *In press, Annual Review of Biomedical Engineering*.
4. Lammel S, Tye KM, **Warden MR**. Progress in understanding mood disorders: optogenetic dissection of neural circuits. Genes, Brain and Behavior. 2014 Jan;13(1):38-51.
5. Rigotti M, Barak O, **Warden MR**, Wang XJ, Daw N, Miller EK, Fusi S. The importance of mixed selectivity in complex cognitive tasks. Nature. 2013 May 30;497(7451):585-590.
6. Kim SY*, Adhikari A*, Lee SY, Marshel JH, Kim CK, Mallory CS, Lo M, Pak S, Mattis J, Lim BK, Malenka RC, **Warden MR**, Neve R, Tye KM, Deisseroth K. Diverging neural pathways assemble a behavioral state from separable features in anxiety. Nature. 2013 Apr 11;496(7444):219-223.
7. Tye KM*, Mirzabekov JJ*, **Warden MR***, Ferenczi EA, Tsai HC, Finkelstein J, Kim SY, Adhikari A, Thompson KR, Andalman AS, Gunaydin LA, Witten IB, Deisseroth K. Dopamine neurons modulate neural encoding and expression of depression-related behaviour. Nature. 2013 Jan 24;493(7433):537-541.
*** these authors contributed equally to this work.**
8. **Warden MR**, Selimbeyoglu A, Mirzabekov JJ, Lo M, Thompson KR, Kim SY, Adhikari A, Tye KM, Frank LM, Deisseroth K. A prefrontal cortex-brainstem neuronal projection that controls response to behavioural challenge. Nature. 2012 Dec 20;492(7429):428-432.
9. Anikeeva P*, Andalman AS*, Witten I, **Warden M**, Goshen I, Grosenick L, Gunaydin LA, Frank LM, Deisseroth K. Optetrode: a multichannel readout for optogenetic control in freely moving mice. Nat Neurosci. 2012 Jan;15(1):163-70.
10. **Warden MR**, Miller EK. Task-dependent changes in short-term memory in the prefrontal cortex. J Neurosci. 2010 Nov 24;30(47):15801-10.
11. Siegel M, **Warden MR**, Miller EK. Phase-dependent neuronal coding of objects in short-term memory. Proc Natl Acad Sci U S A. 2009 Dec 15;106(50):21341-6.
12. **Warden MR**, Miller EK. The representation of multiple objects in prefrontal neuronal delay activity. Cereb Cortex. 2007 Sep;17 Suppl 1:i41-50.