

## ***Papers for Croissant Meeting 2016***

1. Soares et al. (2016) Midbrain dopamine neurons control judgment of time. *Science* 354: 1273-1277.
2. Marshall et al. (2016) Cell-type-specific optical recording of membrane voltage dynamics in freely moving mice. *Cell* 167, 1650–1662.
3. Eshel et al. (2015) Arithmetic and local circuitry underlying dopamine prediction errors. *Nature* 525: 243–246.
4. Zhang et al. (2016) Organization of long-range inputs and outputs of frontal cortex for top-down control. *Nature Neuroscience*, in press, doi:10.1038/nn.4417
5. Ishiyama & Brecht (2016) Neural correlates of ticklishness in the rat somatosensory cortex. *Science* 354:757-760.
6. Ebbessen et al. (2016) Vibrissa motor cortex activity suppresses contralateral whisking behavior. *Nature Neuroscience*, in press, doi:10.1038/nn.4437
7. Kuchibhotla et al. (2016) Parallel processing by cortical inhibition enables context-dependent behavior. *Nature Neuroscience*, in press, doi:10.1038/nn.4436
8. Yu et al. (2016) Layer 4 fast-spiking interneurons filter thalamocortical signals during active somatosensation. *Nature Neuroscience*, in press, doi: 10.1038/nn.4412.
9. Zimmerman et al. (2016) Thirst neurons anticipate the homeostatic consequences of eating and drinking. *Nature* 537:680-684. (selected for the journal club with Yamanaka lab)
10. Liu et al. (2016) Cortico-fugal output from visual cortex promotes plasticity of innate motor behaviour. *Nature*, in press. doi:10.1038/nature19818
11. Burnett et al. (2016) Hunger-driven motivational state competition. *Neuron* 92: 1-15.
12. Xu et al. (2016) Experience-dependent plasticity drives individual differences in pheromone-sensing neurons. *Neuron* 91:878-892.
13. Kinnischtzke et al. (2016) Target-specific M1 inputs to infragranular S1 pyramidal neurons. *J Neurophysiol.* 116: 1261-1274.
14. Kebschull et al. (2016) High-throughput mapping of single-neuron projections by sequencing of barcoded RNA. *Neuron* 91: 975-987.
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16. Stauffer et al. (2016) Dopamine neuron-specific optogenetic stimulation in rhesus macaques. *Cell* 166: 1564–1571.

17. Takeuchi et al. (2016) Locus coeruleus and dopaminergic consolidation of everyday memory. *Nature*, in press [doi:10.1038/nature19325](https://doi.org/10.1038/nature19325)
18. McGire et al. (2016) Short time-scale sensory coding in S1 during discrimination of whisker vibrotactile sequences. *PLoS Biology* <http://dx.doi.org/10.1371/journal.pbio.1002549>
19. Eban-Rothschild et al. (2016) VTA dopaminergic neurons regulate ethologically relevant sleep–wake behaviors. *Nature Neuroscience*, in press, [doi:10.1038/nn.4377](https://doi.org/10.1038/nn.4377)
20. Zhang and van del Pol (2016) Hypothalamic arcuate nucleus tyrosine hydroxylase neurons play orexigenic role in energy homeostasis. *Nature Neuroscience*, in press, [doi:10.1038/nn.4372](https://doi.org/10.1038/nn.4372)
21. Peron et al. (2015) A cellular resolution map of barrel cortex activity during tactile behavior. *Neuron* 86: 783-799.
22. Zhang et al. (2016) The basis of food texture sensation in *Drosophila*. *Neuron* 91:863-877.
23. Carrillo-Reid et al. (2016) Imprinting and recalling cortical ensembles. *Science* 353: 691-694.
24. Saunders et al. (2015) A direct GABAergic output from the basal ganglia to frontal cortex. *Nature* 521: 85-88.
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28. Siniscalchi et al. (2016) Fast and slow transitions in frontal ensemble activity during flexible sensorimotor behavior. *Nature Neuroscience*, in press, [doi:10.1038/nn.4342](https://doi.org/10.1038/nn.4342)
29. Goel & Buonomano (2016) Temporal interval learning in cortical cultures is encoded in intrinsic network dynamics. *Neuron* 91:320–327.
30. Howe & Dombeck (2016) Rapid signalling in distinct dopaminergic axons during locomotion and reward. *Nature*, in press, [doi:10.1038/nature18942](https://doi.org/10.1038/nature18942)
31. Miyamoto et al. (2016) Top-down cortical input during NREM sleep consolidates perceptual memory. *Science* 352:1315-1318.

32. O'Hare et al. (2016) Pathway-specific striatal substrates for habitual behavior. *Neuron* 89:472–479.
33. Golden et al. (2016) Basal forebrain projections to the lateral habenula modulate aggression reward. *Nature* 534:688-692.
34. Nieh et al. (2016) Inhibitory input from the lateral hypothalamus to the ventral tegmental area disinhibits dopamine neurons and promotes behavioral activation. *Neuron* 90: 1286-1298.
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36. Rossi et al. (2016) A GABAergic nigrotectal pathway for coordination of drinking behavior. *Nature Neuroscience* 19: 742-748.
37. Branco et al. (2016) Near-perfect synaptic integration by Nav1.7 in hypothalamic neurons regulates body weight. *Cell* 165:1749-1761. (selected for the journal club with Yamanaka lab)
38. Li et al. (2016) Robust neuronal dynamics in premotor cortex during motor planning. *Nature* 532:459-464.
39. Biane et al. (2016) Thalamocortical projections onto behaviorally relevant neurons exhibit plasticity during adult motor learning. *Neuron* 89: 1173–1179.