Papers for Croissant Meeting 2017

1. Economo et al. (2017) Distinct descending motor cortex pathways and their roles in movement. BiorXiv *preprint* doi:
2. Rodriguez et al. (2017) A craniofacial-specific monosynaptic circuit enables heightened affective pain. Nature Neuroscience 20:1734–1743.
3. Jun et al. (2017) Fully integrated silicon probes for high-density recording of neural activity. Nature 551: 232–236.
4. Inagaki et al. Discrete attractor dynamics underlying selective persistent activity in frontal cortex. BioRxiv *preprint*
5. Wiber et al. (2017) Laminar organization of encoding and memory reactivation in the parietal cortex. Neuron 95:1406-1419.
6. Paul et al. (2017) Transcriptional architecture of synaptic communication delineates GABAergic neuron identity. Cell in press.
7. Wang et al. (2017) Deconstruction of corticospinal circuits for goal-directed motor skills. Cell in press.
8. Leinweber et al. (2017) A sensorimotor circuit in mouse cortex for visual flow predictions. Neuron 95, 1420–1432.
9. Allen et al. (2017) Thirst-associated preoptic neurons encode an aversive motivational drive. Science 357:1149-1155.
10. Adesnik (2017) Synaptic mechanisms of feature coding in the visual cortex of awake mice. Neuron in press.
11. Douglass et al. (2017) Central amygdala circuits modulate food consumption through a positive-valence mechanism. Nature Neuroscience in press.
12. Castro-Alamancos & Favero (2016) Whisker-related afferents in superior colliculus. J Neurophysiol 115: 2265–2279.
13. Mandelblat-Cerf et al. (2017) Bidirectional anticipation of future osmotic challenges by vasopressin neurons. Neuron 93: 57-65.
14. Ishii et al. (2017) A labeled-line neural circuit for pheromone-mediated sexual behaviors in mice. Neuron 95: 123-137.
15. Namburi et al. (2015) A circuit mechanism for differentiating positive and negative associations. Nature 520: 675-678.
16. Hass & Glickfeld (2016) High-fidelity optical excitation of cortico-cortical projections at physiological frequencies. J Neurophysiol 116: 2056-2066.

17. Guo et al. (2017) A corticothalamic circuit for dynamic switching between feature detection and discrimination. Neuron 95: 180-194.
18. Livneh et al. (2017) Homeostatic circuits selectively gate food cue responses in insular cortex. Nature 546: 611-616.
19. Burgos-Robles et al. (2017) Amygdala inputs to prefrontal cortex guide behavior amid conflicting cues of reward and punishment. Nature Neuroscience 20:824-835.
20. Hun et al. A single-cell anatomical blueprint for intracortical information transfer from primary visual cortex. BioRxiv *preprint*
21. Allen et al. (2017) Global representations of goal-directed behavior in distinct cell types of mouse neocortex. Neuron 94: 891-907.
22. Makino et al. (2017) Transformation of cortex-wide emergent properties during motor learning. Neuron 94: 880-890.
23. Chen et al. (2017) A map of anticipatory activity in mouse motor cortex. Neuron 94: 866-879.
24. Schmitt et al. (2017) Thalamic amplification of cortical connectivity sustains attentional control. Nature in press, doi:10.1038/nature22073
25. Guo et al. (2017) Maintenance of persistent activity in a frontal thalamocortical loop. Nature in press, doi:10.1038/nature22324
26. Severson et al. (2017) Active touch and self-motion encoding by Merkel cell-associated afferents. Neuron in press, DOI: http://dx.doi.org/10.1016/j.neuron.2017.03.045
27. Fiser et al. (2016) Experience-dependent spatial expectations in mouse visual cortex. Nature Neuroscience 19: 1658-1664.
28. Roth et al. (2016) Thalamic nuclei convey diverse contextual information to layer 1 of visual cortex. Nature Neuroscience 19: 299-307.
29. Mathis et al. (2017) Somatosensory cortex plays an essential role in forelimb motor adaptation in mice. Neuron 93: 1493–1503.
30. Giovannucci et al. (2017) Cerebellar granule cells acquire a widespread predictive feedback signal during motor learning. Nature Neuroscience in press, doi:10.1038/nn.4531
31. Wagner et al. (2017) Cerebellar granule cells encode the expectation of reward. Nature in press, doi:10.1038/nature21726
32. Moore et al. (2017) Dynamics of cortical dendritic membrane potential and spikes in freely behaving rats. Science in press, doi: 10.1126/science.aaj1497

33. Hasegawa et al. (2017) Selective suppression of local circuits during movement preparation in the mouse motor cortex. Cell Reports 18: 2676–2686.
34. Yu et al. (2017) Molecular and neural basis of contagious itch behavior in mice. Science 355, 1072-1076.
35. Muñoz et al. (2017) Layer-specific modulation of neocortical dendritic inhibition during active wakefulness. Science 355, 954-959.
36. Otis et al. (2017) Prefrontal cortex output circuits guide reward seeking through divergent cue encoding. Nature in press, doi:10.1038/nature21376
37. Prsa et al. (2017) Rapid integration of artificial sensory feedback during operant conditioning of motor cortex neurons. Neuron 93, 929–939.
38. Kurnikova et al. (2017) Coordination of orofacial motor actions into exploratory behavior by rat. Current Biology 27, 1–9.
39. Arcourt et al. (2017) Touch receptor-derived sensory information alleviates acute pain signaling and fine-tunes nociceptive reflex coordination. Neuron 93, 179–193.
40. Carus-Cadavieco et al. (2017) Gamma oscillations organize top-down signalling to hypothalamus and enable food seeking. Nature in press, doi:10.1038/nature21066
41. Edwards et al. (2017) Circuit specificity in the inhibitory architecture of the VTA regulates cocaine-induced behavior. Nature Neuroscience in press, doi:10.1038/nn.4482
42. McHenry et al. (2017) Hormonal gain control of a medial preoptic area social reward circuit. Nature Neuroscience in press, doi:10.1038/nn.4487
43. Garcia-Junco-Clemente et al. (2017) An inhibitory pull–push circuit in frontal cortex. Nature Neuroscience in press, doi:10.1038/nn.4483
44. Gan et al. (2017) Phase-locked inhibition, but not excitation, underlies hippocampal ripple oscillations in awake mice in vivo. Neuron 93: 308–314.
45. Pignatelli et al. (2017) Synaptic plasticity onto dopamine neurons shapes fear learning. Neuron 93: 425-440.
46. Engel et al. (2016) Selective modulation of cortical state during spatial attention. Science 354:1140-1144.

47. Takahashi et al. (2016) Active cortical dendrites modulate perception. Science 354:1587-1590.
48. Sreenivasan et al. (2016) Movement initiation signals in mouse whisker motor cortex. Neuron 92:1368-1382.