

List of papers for Croissant Meeting 2019

1. Siciliano et al. (2019) A cortical-brainstem circuit predicts and governs compulsive alcohol drinking. [Science 366:1008-1012](#).
2. Hwang et al. (2019) Corticostriatal flow of action selection bias. [Neuron in press](#)
3. Ceballo et al. (2019) Targeted cortical manipulation of auditory perception. [Neuron in press](#)
4. Zerbi et al. (2019) Rapid reconfiguration of the functional connectome after chemogenetic locus coeruleus activation. [Neuron103: 702-718](#).
5. Parker et al. (2018) Diametric neural ensemble dynamics in parkinsonian and dyskinetic states. [Nature 557: 177-182](#).
6. Parker et al. (2019) A paranigral VTA nociceptin circuit that constrains motivation for reward. [Cell 178: 653-671](#).
7. Piatkevich et al. (2019) Population imaging of neural activity in awake behaving mice. [Nature in press](#)
8. Pinto et al. (2019) Task-dependent changes in the large-scale dynamics and necessity of cortical regions. [Neuron in press](#)
9. Huang et al. (2019) A neuronal circuit for activating descending modulation of neuropathic pain. [Nature Neuroscience 22:1659-1668](#).
10. Reinhold et al. (2019) Behavioral and neural correlates of hide-and-seek in rats. [Science 365: 1180-1183](#)
11. Berret et al. (2019) Insular cortex processes aversive somatosensory information and is crucial for threat learning. [Science 364: eaaw0474](#)
12. Marshel et al. (2019) Cortical layer-specific critical dynamics triggering perception. [Science 365: eaaw5202](#)
13. Mayrhofer et al. (2019) Distinct contributions of whisker sensory cortex and tongue-jaw motor cortex in a goal-directed sensorimotor transformation. [Neuron in press](#)
14. Tschida et al. (2019) A specialized neural circuit gates social vocalizations in the mouse. [Neuron 103: 459-472](#).
15. Abdelfattah et al. (2019) Bright and photostable chemigenetic indicators for extended in vivo voltage imaging. [Science in press](#)
16. Rasmussen et al. (2019) Cortex-wide changes in extracellular potassium ions parallel brain state transitions in awake behaving mice. [Cell Reports 28: 1182-1194](#).
17. Carrillo-Reid et al. (2019) Controlling visually guided behavior by holographic recalling of cortical ensembles. [Cell in press](#)
18. Mohebi et al. (2019) Dissociable dopamine dynamics for learning and motivation. [Nature 570: 65–70](#).

19. Otis et al. (2019) Paraventricular thalamus projection neurons integrate cortical and hypothalamic signals for cue-reward processing. [Neuron in press](#)
20. Yamada et al. (2019) Sensory experience remodels genome architecture in neural circuit to drive motor learning. [Nature in press](#)
21. Chettih & Harvey (2019) Single-neuron perturbations reveal feature-specific competition in V1. [Nature 567: 334–340.](#)
22. Inoue et al. (2019) Rational engineering of XCaMPs, a multicolor GECI suite for in vivo imaging of complex brain circuit dynamics. [Cell in press](#)
23. Clancy et al. (2019) Locomotion-dependent remapping of distributed cortical networks. [Nature Neuroscience 22: 778–786.](#)
24. Malvaez et al., (2019) Distinct cortical–amygdala projections drive reward value encoding and retrieval. [Nature Neuroscience in press](#)
25. Allen et al. (2019) Thirst regulates motivated behavior through modulation of brainwide neural population dynamics. [Science in press](#)
26. Wagner et al. (2019) Shared cortex-cerebellum dynamics in the execution and learning of a motor task. [Cell in press](#)
27. Mazzucato et al. (2019) Expectation-induced modulation of metastable activity underlies faster coding of sensory stimuli. [Nature Neuroscience in press](#)
28. Zhang & Bruno (2019) High-order thalamic inputs to primary somatosensory cortex are stronger and longer lasting than cortical inputs. [eLife 8:e44158](#)
29. Dominiak et al. (2019) Whisking signals motor preparation and the behavioral state of mice. [BioRxiv preprint](#)
30. Elgueda et al. (2019) State-dependent encoding of sound and behavioral meaning in a tertiary region of the ferret auditory cortex. [Nature Neuroscience in press](#)
31. Yetman et al. (2019) Intersectional monosynaptic tracing for dissecting subtype-specific organization of GABAergic interneuron inputs. [Nature Neuroscience in press](#)
32. Senzai et al. (2019) Layer-specific physiological features and interlaminar interactions in the primary visual cortex of the mouse. [Neuron 101: 500–513.](#)
33. Carta et al. (2019) Cerebellar modulation of the reward circuitry and social behavior, [Science 363: eaav0581](#)
34. Wireless Optogenetics Series (Kim et al, 2013, Science; Jeong et al., 2015; Park et al., 2015, Nat. Biotech.; Montgomery et al., 2015, Nat. Methods; Mickle et al., 2019, Nature)