

List of papers for Croissant Meeting 2023

1. Bhaskaran et al. (2023) Endogenous noise of neocortical neurons correlates with atypical sensory response variability in the Fmr1-/- mouse model of autism. [Nat Commun 14: 7905](#)
2. Ly et al. (2023) Sequential appetite suppression by oral and visceral feedback to the brainstem. [Nature in press](#)
3. Stempey et al. (2023) Tonically active GABAergic neurons in the dorsal periaqueductal gray control the initiation and execution of instinctive escape. [bioRxiv preprint](#)
4. Courcelles et al. (2023) Association cortical areas in the mouse contain a large population of fast-spiking GABAergic neurons that do not express parvalbumin. [bioRxiv preprint](#)
5. Chari et al (2023) A novel head-fixed assay for social touch in mice uncovers aversive responses in two autism models. [J Neurosci 43:7158-7174](#)
6. Wang & Feldman (2023) Degraded tactile coding in the Cntnap2 mouse model of autism. [bioRxiv preprint](#)
7. Zimmerman et al. (2023) A neural mechanism for learning from delayed postingestive feedback. [bioRxiv preprint](#)
8. Berndt et al. (2023) Bidirectional synaptic changes in deep and superficial hippocampal neurons following in vivo activity. [Neuron 19: 2984-2994.](#)
9. Handler et al. (2023) Three-dimensional reconstructions of mechanosensory end organs suggest a unifying mechanism underlying dynamic, light touch. [Neuron in press](#)
10. Valtcheva et al. (2023) Neural circuitry for maternal oxytocin release induced by infant cries. [Nature in press](#)
11. de Ceglia et al. (2023) Specialized astrocytes mediate glutamatergic gliotransmission in the CNS. [Nature in press](#)

12. Gore et al. (2023) Orbitofrontal cortex control of striatum leads economic decision-making. [Nature Neuroscience 26:1566–1574](#)
13. Rowland et al. (2023) Propagation of activity through the cortical hierarchy and perception are determined by neural variability. [Nature Neuroscience in press](#)
14. Shen et al. (2022) Distinct organization of two cortico-cortical feedback pathways. [Nature Communications 13: 6389](#)
15. Broersen et al. (2023) Synaptic mechanisms for associative learning in the cerebellar nuclei. [bioRxiv preprint](#)
16. Guo et al. (2023) Neural dynamics in the limbic system during male social behaviors. [Neuron in press](#)
17. Majumder et al. (2023) Cell-type-specific plasticity shapes neocortical dynamics for motor learning. [bioRxiv preprint](#)
18. Csillag et al. (2023) Voltage-Seq: all-optical postsynaptic connectome-guided single-cell transcriptomics. [Nature Methods in press](#)
19. Zhang et al. (2021) NG2 glia-derived GABA release tunes inhibitory synapses and contributes to stress-induced anxiety. [Nature Communications 12: 5740](#)
20. Isett et al. (2023) The indirect pathway of the basal ganglia promotes transient punishment but not motor suppression. [Neuron 111: 2218-2231](#)
21. Wietek et al. (2023) A bistable inhibitory OptoGPCR for multiplexed optogenetic control of neural circuits. [bioRxiv preprint](#)
22. Fişek et al. (2023) Cortico-cortical feedback engages active dendrites in visual cortex. [Nature 617: 769–776](#)
23. Villarino et al. (2023) Labeling PIEZO2 activity in the peripheral nervous system. Neuron in press <https://doi.org/10.1016/j.neuron.2023.05.015>

24. Willmore et al. (2023) Overlapping representations of food and social stimuli in VTA dopamine neurons. [bioRxiv preprint](#)
25. Zhang and Zaghera (2023) Motor cortex gates distractor stimulus encoding in sensory cortex. [Nature Communications 14, 2097.](#)
26. Bakuhurin et al. (2023) Force tuning explains changes in phasic dopamine signaling during stimulus-reward learning. [bioRxiv preprint](#)
27. Liu et al. (2023) A Hypothalamic Circuit Underlying the Dynamic Control of Social Homeostasis. [bioRxiv preprint](#)
28. Hur et al. (2023) Correlated signatures of social behavior in cerebellum and anterior cingulate cortex. [bioRxiv preprint](#)
29. Abdeladim et al. (2023) Probing inter-areal computations with a cellular resolution two-photon holographic mesoscope. [bioRxiv preprint](#)
30. Lee et al. (2023) Perirhinal Cortex Learns A Predictive Map of The Task Environment. [bioRxiv preprint](#)
31. Chen et al. (2023) Brain-wide neural activity underlying memory-guided movement. [bioRxiv preprint](#)
32. Singh Alvarado et al. (2023) Transient cAMP production drives rapid and sustained spiking in brainstem parabrachial neurons to suppress feeding. [bioRxiv preprint](#)
33. Yang et al. (2023) Phosphorylation of pyruvate dehydrogenase marks the inhibition of in vivo neuronal activity. [bioRxiv preprint](#)
34. de la Torre-Martinez et al. (2023) Ongoing movement controls sensory integration in the dorsolateral striatum. [Nature Communications 14: 1004](#)
35. Vestergaard et al. (2023) The cellular coding of temperature in the mammalian cortex. [Nature 614: 725–731](#)

36. Fan et al. (2023) All-optical physiology resolves a synaptic basis for behavioral timescale plasticity. [Cell 186: 543-559](#).
37. Bimbard et al. (2023) Behavioral origin of sound-evoked activity in mouse visual cortex. [Nature Neuroscience 26: 251–258](#)
38. Markowitz et al. (2023) Spontaneous behaviour is structured by reinforcement without explicit reward. [Nature in press](#)
39. Coddington et al. (2023) Mesolimbic dopamine adapts the rate of learning from action. [Nature in press](#)
40. Campagner et al. (2022) A cortico-collicular circuit for orienting to shelter during escape. [Nature 613:111–119](#)
41. Gan et al. (2022) Layer-specific pain relief pathways originating from primary motor cortex. [Science 378: 1336-1343](#)
42. Veit et al. (2022) Cortical VIP neurons locally control the gain but globally control the coherence of gamma band rhythms. [Neuron in press](#)
43. Xie et al. (2022) A dopaminergic reward prediction error signal shapes maternal behavior in mice. [Neuron in press](#)