

List of papers for Croissant Meeting 2021

1. Opendak et al. (2021) Bidirectional control of infant rat social behavior via dopaminergic innervation of the basolateral amygdala. [Neuron 109: 4018-4035](#)
2. Solié et al. (2021) VTA dopamine neuron activity encodes social interaction and promotes reinforcement learning through social prediction error. [Nature Neuroscience in press](#)
3. Koren et al. (2021) Insular cortex neurons encode and retrieve specific immune responses. [Cell 184: 5902-5915](#)
4. Klein et al. (2021) Fear balance is maintained by bodily feedback to the insular cortex in mice. [Science 374: 1010-1015](#)
5. Ucar et al. (2021) Mechanical actions of dendritic-spine enlargement on presynaptic exocytosis. [Nature in press](#)
6. Cortical responses to touch reflect subcortical integration of LTMR signals. [Nature in press](#)
7. Lee & Sabatini (2021) Striatal indirect pathway mediates exploration via collicular competition. [Nature in press](#)
8. Cornejo et al. (2021) Voltage compartmentalization in dendritic spines in vivo. [Science in press](#)
9. Zhao et al. (2021) Rapid synaptic plasticity contributes to a learned conjunctive code of position and choice-related information in the hippocampus. [Neuron in press](#)
10. Schmidt et al. (2021) A human-specific modifier of cortical connectivity and circuit function. [Nature in press](#)
11. Basu et al. (2021) The orbitofrontal cortex maps future navigational goals. [Nature in press](#)
12. Chen et al. (2021) Decoding molecular and cellular heterogeneity of mouse nucleus accumbens. [Nature Neuroscience in press](#)
13. Lee et al. (2021) Dopamine facilitates associative memory encoding in the entorhinal cortex. [Nature 598: 321–326.](#)
14. Wu et al. (2021) Neural control of affiliative touch in prosocial interaction. [Nature in press](#)
15. Chang et al. (2021) A cortico-cortical pathway targets inhibitory interneurons and modulates paw movement during locomotion in mice. [bioRxiv preprint](#)
16. Nguyen et al. (2021) Nicotine inhibits the VTA-to-amygdala dopamine pathway to promote anxiety. [Neuron 109: 2604-2615.](#)

17. Smith et al. (2021) Anterior cingulate inputs to nucleus accumbens control the social transfer of pain and analgesia. [Science 371: 153-159.](#)
18. Li et al. (2021) Synaptic mechanism underlying serotonin modulation of transition to cocaine addiction. [Science 373: 1252-1256.](#)
19. Pan et al. (2021) Dissociable contributions of phasic dopamine activity to reward and prediction. [Cell Reports 36:109684](#)
20. Kim et al. (2021) Gated feedforward inhibition in the frontal cortex releases goal-directed action. [Nature Neuroscience in press](#)
21. Wang et al. A cortico-basal ganglia-thalamo-cortical channel underlying short-term memory. [Neuron in press](#)
22. Choi et al. (2021) Synaptic correlates of associative fear memory in the lateral amygdala. [Neuron 109: 2717-2726.](#)
23. Zhang et al. (2021) Hypothalamic dopamine neurons motivate mating through persistent cAMP signalling. [Nature in press](#)
24. Okada et al. (2021) Pain induces stable, active microcircuits in the somatosensory cortex that provide a therapeutic target. [Science Advances 7: eabd8261](#)
25. Carcea et al. (2021) Oxytocin neurons enable social transmission of maternal behaviour. [Nature in press](#)
26. Hey et al. (2021) Thalamus mediates neocortical Down state transition via GABAB-receptor-targeting interneurons. [Neuron in press](#)
27. Pribiag et al. (2021) Ventral pallidum DRD3 potentiates a pallido-habenular circuit driving accumbal dopamine release and cocaine seeking. [Neuron 109: 2165-2182.](#)
28. Rodgers et al. (2021) Sensorimotor strategies and neuronal representations for shape discrimination. [Neuron 109: 2308-2325.](#)
29. Nieh et al. (2021) Geometry of abstract learned knowledge in the hippocampus. [Nature 595: 80–84.](#)
30. Sans-Dublanc et al. (2021) Optogenetic fUSI for brain-wide mapping of neural activity mediating collicular-dependent behaviors. [Neuron 109: 1888-1905.](#)
31. Kim et al. (2020) A molecular calcium integrator reveals a striatal cell type driving aversion. [Cell 183: 2003-2019.](#)
32. Dacre et al. (2021) A cerebellar-thalamocortical pathway drives behavioral context-dependent movement initiation. [Neuron in press](#)
33. Michelson et al. Dual brain cortical calcium imaging reveals social interaction-specific correlated activity in mice. [bioRxiv preprint](#)
34. Yang et al. (2021) Wireless multilateral devices for optogenetic studies of individual and social behaviors. [Nature Neuroscience in press](#)

35. Sheggia et al. (2020) Somatostatin interneurons in the prefrontal cortex control affective state discrimination in mice. [Nature Neuroscience 23: 47–60.](#)
36. Orsolich et al. (2021) Mesoscale cortical dynamics reflect the interaction of sensory evidence and temporal expectation during perceptual decision-making. [Neuron in press](#)
37. Bitzenhofer et al. (2021) A transient developmental increase in prefrontal activity alters network maturation and causes cognitive dysfunction in adult mice. [Neuron in press](#)
38. Liu et al. (2021) A cortical circuit mechanism for structural knowledge-based flexible sensorimotor decision-making. [Neuron in press](#)
39. Hamid et al. (2021) Wave-like dopamine dynamics as a mechanism for spatiotemporal credit assignment. [Cell in press](#)
40. Spellman et al. (2021) Prefrontal deep projection neurons enable cognitive flexibility via persistent feedback monitoring. [Cell in press](#)
41. Graybuck et al. (2021) Enhancer viruses for combinatorial cell-subclass-specific labeling. [Neuron 109:1449–1464](#)
42. Stinger et al. (2021) High-precision coding in visual cortex. [Cell in press](#)
43. Schmack et al. (2021) Striatal dopamine mediates hallucination-like perception in mice. [Science 372: eabf4740](#)
44. Brown et al. (2021) Spatial integration during active tactile sensation drives orientation perception. [Neuron in press](#)
45. Hu et al. (2021) An amygdala-to-hypothalamus circuit for social reward. [Nature Neuroscience in press](#)
46. Kwon et al. (2021) An amygdala circuit that suppresses social engagement. [Nature in press](#)
47. Kim et al. (2021) Biophysical demonstration of co-packaging of glutamate and GABA in individual synaptic vesicles in the central nervous system. [bioRxiv preprint](#)
48. Urbain et al. (2019) Brain-state-dependent modulation of neuronal firing and membrane potential dynamics in the somatosensory thalamus during natural sleep. [Cell Reports 26:1443-1457.](#)
49. Karigo et al. (2021) Distinct hypothalamic control of same- and opposite-sex mounting behaviour in mice. [Nature 589: 258–263](#)
50. Trojanowski et al. (2021) Activity labeling in vivo using CaMPARI2 reveals intrinsic and synaptic differences between neurons with high and low firing rate set points. [Neuron 109:663-676.](#)

51. Norman et al. (2021) Post-error recruitment of frontal sensory cortical projections promotes attention in mice. [Neuron in press](#)
52. Lui et al. (2021) Differential encoding in prefrontal cortex projection neuron classes across cognitive tasks. [Cell 184: 489-506](#).
53. Holler et al. (2021) Structure and function of a neocortical synapse. [Nature in press](#)
54. Peters et al. (2021) Striatal activity topographically reflects cortical activity. [Nature in press](#)
55. Ketzef & Silberberg (2021) Differential synaptic input to external globus pallidus neuronal subpopulations in vivo. [Neuron in press](#)
56. Prager et al. (2020) Dopamine oppositely modulates state transitions in striosome and matrix direct pathway striatal spiny neurons. [Neuron 108: 1091-1102](#).
57. Kim et al. (2020) A unified framework for dopamine signals across timescales. [Cell 183: 1600-1616](#).
58. Cachero et al. (2020) BAcTrace, a tool for retrograde tracing of neuronal circuits in *Drosophila*. [Nature Methods 17: 1254–1261](#).