This Week in The Journal

Journal Club

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6267 Alkalization of the Synaptic Cleft during Excitatory Neurotransmission
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6270 Synaptic Plasticity Induced by Differential Manipulation of Tonic and Phasic Motoneurons in Drosophila
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6289 Induction of BDNF Expression in Layer II/III and Layer V Neurons of the Motor Cortex Is Essential for Motor Learning
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6309 The Wiring Logic of an Identified Serotonergic Neuron That Spans Sensory Networks

6328 Circuit Mechanisms Underlying the Segregation and Integration of Parallel Processing Streams in the Inferior Colliculus
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6345 Signal Diversification Is Associated with Corollary Discharge Evolution in Weakly Electric Fish
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6357 Age-Related Hearing Loss Is Dominated by Damage to Inner Ear Sensory Cells, Not the Cellular Battery That Powers Them
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6367 Organization of Corollary Discharge Neurons in Monkey Medial Dorsal Thalamus
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Cover legend: This image shows a tonic motoneuron (green) at the Drosophila neuromuscular junction. Magenta labels all neurons. Unique aspects of plasticity are mediated by tonic versus phasic glutamatergic motoneurons. For more information, see the article by Aponte-Santiago et al. Cover Image: Nicole Aponte-Santiago. (pages 6270–6288).
Mediodorsal Thalamus Contributes to the Timing of Instrumental Actions  
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Prior Expectations of Motion Direction Modulate Early Sensory Processing  
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Cross-Frequency Phase-Amplitude Coupling between Hippocampal Theta and Gamma Oscillations during Recall Destabilizes Memory and Renders It Susceptible to Reconsolidation Disruption  
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The Mesolimbic Dopamine Activity Signatures of Relapse to Alcohol-Seeking  

Synergistic Toll-like Receptor 3/9 Signaling Affects Properties and Impairs Glioma-Promoting Activity of Microglia  
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NF-κB Activation Accounts for the Cytoprotective Effects of PERK Activation on Oligodendrocytes during EAE  
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Erratum: “This Week in the Journal,” appeared on page 5343 of the July 8, 2020 issue. An erratum for this article appears on page 6457.

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