



Cover legend: This composite of three images shows the posterior lateral mechanosensory neuron (PLM) of *C. elegans*, with the cytoplasm visualized with a red fluorophore and the fusogen EFF-1 tagged with GFP. Mutations in *rab-5* cause vesicles to emanate from the PLM neuron. These are visible as puncta surrounding the cell body and initial section of the PLM axon. Photo by Casey Linton and Nick Valmas. For more information see the article by Linton et al. (pages 2823–2836).

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Research Articles

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- 2776 Calcium-Activated Calpain Specifically Cleaves Glutamate Receptor IIA But Not IIB at the *Drosophila* Neuromuscular Junction**
Elsayed Metwally, Guoli Zhao, Wenhua Li, Qifu Wang, and Yong Q. Zhang
- 2792 Neuron-Derived Estrogen Regulates Synaptic Plasticity and Memory**
Yujiao Lu, Gangadhara R. Sareddy, Jing Wang, Ruimin Wang, Yong Li, Yan Dong, Quanguang Zhang, Jinyou Liu, Jason C. O'Connor, Jianhua Xu, Ratna K. Vadlamudi, and Darrell W. Brann
- 2810 Cell Kinetics in the Adult Neurogenic Niche and Impact of Diet-Induced Accelerated Aging**
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- 2823 Disruption of RAB-5 Increases EFF-1 Fusogen Availability at the Cell Surface and Promotes the Regenerative Axonal Fusion Capacity of the Neuron**
Casey Linton, M. Asrafuzzaman Riyadh, Xue Yan Ho, Brent Neumann, Rosina Giordano-Santini, and Massimo A. Hilliard

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- 2837 Activation of Phox2b-Expressing Neurons in the Nucleus Tractus Solitarius Drives Breathing in Mice**
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- 2860 Enhanced Activation of HCN Channels Reduces Excitability and Spike-Timing Regularity in Maturing Vestibular Afferent Neurons**
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- 2877 Binocular Eye Movements Are Adapted to the Natural Environment**
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- 2889 Neural Variability Limits Adolescent Skill Learning**
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- 2903 **Luring the Motor System: Impact of Performance-Contingent Incentives on Pre-Movement Beta-Band Activity and Motor Performance**
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- 2930 **Larger Auditory Cortical Area and Broader Frequency Tuning Underlie Absolute Pitch**
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- 2938 **Cortical Tracking of Speech-in-Noise Develops from Childhood to Adulthood**
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- 2951 **Necroptosis and Apoptosis Contribute to Cisplatin and Aminoglycoside Ototoxicity**
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- 2965 **Strengthened Inputs from Secondary Motor Cortex to Striatum in a Mouse Model of Compulsive Behavior**
Victoria L. Corbit, Elizabeth E. Manning, Aryn H. Gittis, and Susanne E. Ahmari

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