



Cover legend: Confocal image of the *Drosophila* neuromuscular junction depicting two motor neuron subtypes co-innervating a common muscle target, where the blue color presents the neuronal membrane (labeled by anti-HRP) and synaptic vesicles are labeled in magenta (anti-vesicular glutamate transporter). The larger boutons (circular areas in green, labeled with anti-Discs Large), represent the “tonic” motor neuron **Ib** terminals, while the smaller boutons correspond to the “phasic-like” motor neuron **Is** terminals. In this issue, He et al. characterize structural and functional signatures of tonic vs phasic glutamatergic synapses. For more information, see the article by He et al. (pages 4598–4611).
Cover image: Yifu Han and Kaikai He.

4558 This Week in The Journal

Research Articles

CELLULAR/MOLECULAR

4559 *Ogt* Deficiency Induces Abnormal Cerebellar Function and Behavioral Deficits of Adult Mice through Modulating RhoA/ROCK Signaling

Jinyu Zhang, Kaiyan Wei, Wenzheng Qu, Mengxuan Wang, Qiang Zhu, Xiaoxue Dong, Xiaoli Huang, Wen Yi, Shunliang Xu, and Xuekun Li

DEVELOPMENT/PLASTICITY/REPAIR

4580 Developmental Exposure to Polychlorinated Biphenyls Prevents Recovery from Noise-Induced Hearing Loss and Disrupts the Functional Organization of the Inferior Colliculus

Baher A. Ibrahim, Jeremy J. Louie, Yoshitaka Shinagawa, Gang Xiao, Alexander R. Asilador, Helen J. K. Sable, Susan L. Schantz, and Daniel A. Llano

4598 Physiologic and Nanoscale Distinctions Define Glutamatergic Synapses in Tonic vs Phasic Neurons

Kaikai He, Yifu Han, Xiling Li, Roberto X. Hernandez, Danielle V. Riboul, Touhid Feghhi, Karlis A. Justs, Olena Mahneva, Sarah Perry, Gregory T. Macleod, and Dion Dickman

SYSTEMS/CIRCUITS

4612 Hypothalamic Supramammillary Nucleus Selectively Excites Hippocampal CA3 Interneurons to Suppress CA3 Pyramidal Neuron Activity

Minghua Li, Jessica L. Kinney, Yu-Qiu Jiang, Daniel K. Lee, Qiwen Wu, Daehoon Lee, Wen-Cheng Xiong, and Qian Sun

4625 High-Fidelity Reproduction of Visual Signals by Electrical Stimulation in the Central Primate Retina

Alex R. Gogliettino, Sasidhar S. Madugula, Lauren E. Grosberg, Ramandeep S. Vilku, Jeff Brown, Huy Nguyen, Alexandra Kling, Paweł Hottowy, Władysław Dąbrowski, Alexander Sher, Alan M. Litke, and E. J. Chichilnisky

4642 Auditory Deprivation during Development Alters Efferent Neural Feedback and Perception

Srikanta K. Mishra and David R. Moore

4650 Abstract Value Encoding in Neural Populations But Not Single Neurons

Justin M. Fine, David J.-N. Maisson, Seng Bum Michael Yoo, Tyler V. Cash-Padgett, Maya Zhe Wang, Jan Zimmermann, and Benjamin Y. Hayden

BEHAVIORAL/COGNITIVE

- 4664 **Neural Evidence for Boundary Updating as the Source of the Repulsive Bias in Classification**
Heeseung Lee, Hyang-Jung Lee, Kyoung Whan Choe, and Sang-Hun Lee
- 4684 **Decreased Ventral Tegmental Area CB1R Signaling Reduces Sign Tracking and Shifts Cue–Outcome Dynamics in Rat Nucleus Accumbens**
Sam Z. Bacharach, David A. Martin, Cassie A. Stapf, Fangmiao Sun, Yulong Li, Joseph F. Cheer, and Donna J. Calu
- 4697 **Dissociable Neural Correlates of Multisensory Coherence and Selective Attention**
Fei Peng, Jennifer K. Bizley, Jan W. Schnupp, and Ryszard Auzsztulewicz
- 4709 **Auricular Transcutaneous Vagus Nerve Stimulation Specifically Enhances Working Memory Gate Closing Mechanism: A System Neurophysiological Study**
Anyla Konjusha, Shijing Yu, Moritz Mückschel, Lorenza Colzato, Tjalf Ziemssen, and Christian Beste

NEUROBIOLOGY OF DISEASE

- 4725 **Elevated Galectin-3 Is Associated with Aging, Multiple Sclerosis, and Oxidized Phosphatidylcholine-Induced Neurodegeneration**
Sara Xue, Brian M. Lozinski, Samira Ghorbani, Khanh Ta, Charlotte D’Mello, V. Wee Yong, and Yifei Dong
- 4738 **Effect of Aging and a Dual Orexin Receptor Antagonist on Sleep Architecture and Non-REM Oscillations Including an REM Behavior Disorder Phenotype in the PS19 Mouse Model of Tauopathy**
Korey Kam, Kenny Vetter, Rachel A. Tejiram, Ward D. Pettibone, Kaitlyn Shim, Mickael Audrain, Liping Yu, Ilse S. Daehn, Michelle E. Ehrlich, and Andrew W. Varga
- 4750 **Erratum:** The article “Activity-Induced Cortical Glutamatergic Neuron Nascent Proteins,” by Lucio M. Schiapparelli, Yi Xie, Pranav Sharma, Daniel B. McClatchy, Yuanhui Ma, John R. Yates 3rd, Anton Maximov, and Hollis T. Cline, which appeared on pages 7900–7920 of the October 19, 2022 issue. An erratum for this article appears on page 4738.

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