



Cover legend: Hand laminated wood sculpture by Pamela Simard created from fluorescent microscopy images generated by Hunter S. Shaw. The piece named, *Bdl*, represents the visual system of the fruit fly brain, and more precisely, the contributions of adhesion molecules to photoreceptor synaptic development. This collaboration between artist and scientist as part of the Convergence Initiative explores the similarities between the processes involved in artistic creativity and in scientific research. Photography by Alex Tran. (pages 6817–6828).

6813 This Week in The Journal

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- 6814 **Disentangling the role of posterior parietal cortex in response inhibition**
Ricci Hannah and Sumitash Jana

Research Articles

CELLULAR/MOLECULAR

- 6817 **The Conserved IgSF9 Protein *Borderless* Regulates Axonal Transport of Presynaptic Components and Color Vision in *Drosophila***
Hunter S. Shaw, Scott A. Cameron, Wen-Tzu Chang, and Yong Rao
- 6829 **Differences between Dorsal Root and Trigeminal Ganglion Nociceptors in Mice Revealed by Translational Profiling**
Salim Megat, Pradipta R. Ray, Diana Tavares-Ferreira, Jamie K. Moy, Ishwarya Sankaranarayanan, Andi Wanghzou, Tzu Fang Lou, Paulino Barragan-Iglesias, Zachary T. Campbell, Gregory Dussor, and Theodore J. Price
- 6848 **Macrophage Toll-like Receptor 9 Contributes to Chemotherapy-Induced Neuropathic Pain in Male Mice**
Xin Luo, Yul Huh, Sangsu Bang, Qianru He, Linlin Zhang, Megumi Matsuda, and Ru-Rong Ji

DEVELOPMENT/PLASTICITY/REPAIR

- 6865 **Distinct Heterosynaptic Plasticity in Fast Spiking and Non-Fast-Spiking Inhibitory Neurons in Rat Visual Cortex**
Marina Chistiakova, Vladimir Ilin, Matvey Roshchin, Nicholas Bannon, Alexey Malyshev, Zoltán Kisvárdy, and Maxim Volgushev

SYSTEMS/CIRCUITS

- 6879 **Divergent Auditory Nerve Encoding Deficits Between Two Common Etiologies of Sensorineural Hearing Loss**
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- 6888 **Robust Associative Learning Is Sufficient to Explain the Structural and Dynamical Properties of Local Cortical Circuits**
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- 6905 **Differential Inhibitory Configurations Segregate Frequency Selectivity in the Mouse Inferior Colliculus**
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- 6922 **Efferent Inputs Are Required for Normal Function of Vestibular Nerve Afferents**
Vishal Raghun, Richard Salvi, and Soroush G. Sadeghi

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- 6936 **In a Temporally Segmented Experience Hippocampal Neurons Represent Temporally Drifting Context But Not Discrete Segments**
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- 6953 **Learning What Is Irrelevant or Relevant: Expectations Facilitate Distractor Inhibition and Target Facilitation through Distinct Neural Mechanisms**
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- 6968 **Binding During Sequence Learning Does Not Alter Cortical Representations of Individual Actions**
Patrick Beukema, Jörn Diedrichsen, and Timothy D. Verstynen
- 6978 **Monosynaptic Hippocampal-Prefrontal Projections Contribute to Spatial Memory Consolidation in Mice**
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NEUROBIOLOGY OF DISEASE

- 6992 **Tuning of Glutamate, But Not GABA, Release by an Intrasynaptic Vesicle APP Domain Whose Function Can Be Modulated by β - or α -Secretase Cleavage**
Wen Yao, Marc D. Tambini, Xinran Liu, and Luciano D'Adamio
- 7006 **SIV-Mediated Synaptic Dysfunction Is Associated with an Increase in Synapsin Site 1 Phosphorylation and Impaired PP2A Activity**
Masoud Shekarabi, Jake A. Robinson, Mandy D. Smith, and Tricia H. Burdo
- 7019 **Targeting Seizure-Induced Neurogenesis in a Clinically Relevant Time Period Leads to Transient But Not Persistent Seizure Reduction**
Parul Varma, Rebecca Brulet, Ling Zhang, and Jenny Hsieh
- 7029 **Erratum:** The article "Stimulus-Driven Brain Rhythms within the Alpha Band: The Attentional-Modulation Conundrum" by Christian Keitel, Anne Keitel, Christopher S.Y. Benwell, Christoph Daube, Gregor Thut, and Joachim Gross, appeared on pages 3119–3129 of the April 17, 2019 issue. An erratum for this article appears on p. 7029.
- Erratum:** The article "Hyperexcitability and Hyperplasticity Disrupt Cerebellar Signal Transfer in the *IB2* KO Mouse Model of Autism" by Teresa Soda, Lisa Mapelli, Francesca Locatelli, Laura Botta, Mitchell Goldfarb, Francesca Prestori, and Egidio Ugo D'Angelo, appeared on pages 2383–2397 of the March 27, 2019 issue. An erratum for this article appears on p. 7029.

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