



**Cover legend:** Immunohistochemistry for astrocyte-specific GfAP6f (green), glial fibrillary acidic protein (GFAP; red), and DAPI (blue). This technique was used to analyze the overlap (yellow) between the GfAP6f and astrocytes in the basolateral amygdala (BLA) to ensure selective expression for fiber photometry recordings during fear learning. For more information, see the article by Suthard, Senne et al. (pages 4997–5013).  
Cover image: Steve Ramirez.

4955 This Week in The Journal

## Journal Club

4956 **Feature Integration in Motor Sequences: Implications for Abstract Task Sequence Studies**  
Hannah Doyle

## Research Articles

### CELLULAR/MOLECULAR

4959 **Seizures Cause Prolonged Impairment of Ventilation, CO<sub>2</sub> Chemoreception and Thermoregulation**  
Frida A. Teran, Rup K. Sainju, Eduardo Bravo, Jacy Wagnon, YuJaung Kim, Alex Granner, Brian K. Gehlbach, and George B. Richerson

### DEVELOPMENT/PLASTICITY/REPAIR

4972 **Cholinergic Stimulation Modulates the Functional Composition of CA3 Cell Types in the Hippocampus**  
Christopher Jon Puhl, Winnie Wefelmeyer, and Juan Burrone

### SYSTEMS/CIRCUITS

4984 **Metamodal Coupling of Vibrotactile and Auditory Speech Processing Systems through Matched Stimulus Representations**  
Srikanth R. Damera, Patrick S. Malone, Benson W. Stevens, Richard Klein, Silvio P. Eberhardt, Edward T. Auer, Lynne E. Bernstein, and Maximilian Riesenhuber

4997 **Basolateral Amygdala Astrocytes Are Engaged by the Acquisition and Expression of a Contextual Fear Memory**  
Rebecca L. Suthard, Ryan A. Senne, Michelle D. Buzharsky, Angela Y. Pyo, Kaitlyn E. Dorst, Anh H. Diep, Rebecca H. Cole, and Steve Ramirez

5014 **Excitatory and Inhibitory Descending Commissural Interneurons Differentially Integrate Supraspinal and Segmental Sensory Signals**  
Andrea Giorgi, Abishag Tluang Cer, Shruthi Mohan, and Marie-Claude Perreault

### BEHAVIORAL/COGNITIVE

5030 **Cortically Evoked Movement in Humans Reflects History of Prior Executions, Not Plan for Upcoming Movement**  
Abdelbaset Suleiman, Deborah Solomonow-Avnon, and Firas Mawase

- 5045 **Neurophysiological Evidence for Semantic Processing of Irrelevant Speech and Own-Name Detection in a Virtual Café**  
Adi Brown, Danna Pinto, Ksenia Burgart, Yair Zvilichovsky, and  
Elana Zion-Golumbic

#### NEUROBIOLOGY OF DISEASE

- 5057 **The Stria Vascularis in Mice and Humans Is an Early Site of Age-Related Cochlear Degeneration, Macrophage Dysfunction, and Inflammation**  
Hainan Lang, Kenyaria V. Noble, Jeremy L. Barth, Jeffrey A. Rumschlag,  
Tyreek R. Jenkins, Shelby L. Storm, Mark A. Eckert, Judy R. Dubno, and  
Bradley A. Schulte
- 5076 **Distinct Features of Interictal Activity Predict Seizure Localization and Burden in a Mouse Model of Childhood Epilepsy**  
William F. Tobin and Matthew C. Weston
- 5092 **Deletion of Transferrin Receptor 1 in Parvalbumin Interneurons Induces a Hereditary Spastic Paraplegia-Like Phenotype**  
Wenchao Xiong, Liqiang Jin, Yulu Zhao, Yu Wu, Jinghua Dong, Zhixin Guo,  
Minzhen Zhu, Yongfeng Dai, Yida Pan, and Xinhong Zhu
- 5114 **The Therapeutic Frequency Profile of Subthalamic Nucleus Deep Brain Stimulation in Rats Is Shaped by Antidromic Spike Failure**  
Isaac R. Cassar and Warren M. Grill

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