



Cover legend: This image shows the cortex of a mouse in which endogenous Na_v1.6 channels (green) were labeled via CRISPR/Cas9-mediated genome editing. This labeling technique allows channels to be tracked with super-resolution live-cell imaging. Blue shows DNA-DAPI stain. For more information, see the article by Liu et al. (pages 5482–5498).
Cover image: Hui Liu and Zhe Liu.

5481 This Week in The Journal

Research Articles

CELLULAR/MOLECULAR

5482 Direct Observation of Compartment-Specific Localization and Dynamics of Voltage-Gated Sodium Channels

Hui Liu, Hong-Gang Wang, Geoffrey Pitt, and Zhe Liu

5499 The Antiseizure Drug Perampanel Is a Subunit-Selective Negative Allosteric Modulator of Kainate Receptors

Sakiko Taniguchi, Jacob R. Stolz, and Geoffrey T. Swanson

DEVELOPMENT/PLASTICITY/REPAIR

5510 Migrating Pyramidal Neurons Require DSCAM to Bypass the Border of the Developing Cortical Plate

Tao Yang, Macy W. Veling, Xiao-Feng Zhao, Nicholas P. Prin, Limei Zhu, Ty Hergenreder, Hao Liu, Lu Liu, Zachary S. Rane, Masha G. Savelieff, Peter G. Fuerst, Qing Li, Kenneth Y. Kwan, Roman J. Giger, Yu Wang, and Bing Ye

SYSTEMS/CIRCUITS

5522 Astrocytes Sustain Circadian Oscillation and Bidirectionally Determine Circadian Period, But Do Not Regulate Circadian Phase in the Suprachiasmatic Nucleus

Andrew P. Patton, Nicola J. Smyllie, Johanna E. Chesham, and Michael H. Hastings

5538 Subthalamic Nucleus Modulation of the Pontine Nuclei and Its Targeting of the Cerebellar Cortex

Ramakrishnan Bhuvanandaram, Joanna Krzyspiak, and Kamran Khodakhah

5552 Muscarinic Acetylcholine M₂ Receptors Regulate Lateral Habenula Neuron Activity and Control Cocaine Seeking Behavior

Clara I.C. Wolfe, Eun-Kyung Hwang, Elfrieda C. Ijomor, Agustin Zapata, Alexander F. Hoffman, and Carl R. Lupica

5564 Neuromodulatory Mechanisms Underlying Contrast Gain Control in Mouse Auditory Cortex

Patrick A. Cody and Thanos Tzounopoulos

BEHAVIORAL/COGNITIVE

5580 Value, Confidence, Deliberation: A Functional Partition of the Medial Prefrontal Cortex Demonstrated across Rating and Choice Tasks

Nicolas Clairis and Mathias Pessiglione

- 5593 **Selective Prefrontal–Amygdala Circuit Interactions Underlie Social and Nonsocial Valuation in Rhesus Macaques**
Maia S. Pujara, Nicole K. Ciesinski, Joseph F. Reylets, Sarah E.V. Rhodes, and Elisabeth A. Murray
- 5605 **Pain, But Not Physical Activity, Is Associated with Gray Matter Volume Differences in Gulf War Veterans with Chronic Pain**
Jacob V. Ninneman, Nicholas P. Gretzon, Aaron J. Stegner, Jacob B. Lindheimer, Michael J. Falvo, Glenn R. Wylie, Ryan J. Dougherty, Neda E. Almassi, Stephanie M. Van Riper, Alexander E. Boruch, Douglas C. Dean, Kelli F. Koltyn, and Dane B. Cook
- 5617 **Somatic Genetics Analysis of Sleep in Adult Mice**
Guodong Wang, Qi Li, Junjie Xu, Shuai Zhao, Rui Zhou, Zhenkang Chen, Wentong Jiang, Xue Gao, Shuang Zhou, Zhiyu Chen, Quanzhi Sun, Chengyuan Ma, Lin Chen, Bihan Shi, Ying Guo, Haiyan Wang, Xia Wang, Huaiye Li, Tao Cai, Yibing Wang, Zhineng Chen, Fengchao Wang, and Qinghua Liu

NEUROBIOLOGY OF DISEASE

- 5641 **Unbalanced Regulation of Sec22b and Ykt6 Blocks Autophagosome Axonal Retrograde Flux in Neuronal Ischemia–Reperfusion Injury**
Haiying Li, Xiang Li, Zhongmou Xu, Jinxin Lu, Chang Cao, Wanchun You, Zhengquan Yu, Haitao Shen, and Gang Chen
- 5655 **Erratum:** The article “Improved Speech Hearing in Noise with Invasive Electrical Brain Stimulation” by Prachi Patel, Bahar Khalijhinejad, Jose L. Herrero, Stephan Bickel, Ashesh D. Mehta, and Nima Mesgarani, appeared on pages 3648–3658 of the April 27, 2022 issue. An erratum for this article appears on page 5655.

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