



**Cover legend:** This image depicts cortical neurons derived from human induced pluripotent stem cells, labeled with antibodies against beta-tubulin III (Green). These cells were used to study the epilepsy-associated L1342P genetic variant of Nav1.2 voltage-gated sodium channels. Nuclei were labeled with DAPI (blue). For more information, see the article by Que et al. (pages 10194–10208).  
Cover image: Maria I. Olivero-Acosta.

## 10033 This Week in The Journal

### Research Articles

#### CELLULAR/MOLECULAR

- 10034 Amyloidogenic Processing of Amyloid Precursor Protein Drives Stretch-Induced Disruption of Axonal Transport in hiPSC-Derived Neurons**  
Rodrigo S. Chaves, My Tran, Andrew R. Holder, Alexandra M. Balcer, Andrea M. Dickey, Elizabeth A. Roberts, Brian G. Bober, Edgar Gutierrez, Brian P. Head, Alex Groisman, Lawrence S.B. Goldstein, Angels Almenar-Queralt, and Sameer B. Shah

#### DEVELOPMENT/PLASTICITY/REPAIR

- 10054 A Proinflammatory Stimulus Disrupts Hippocampal Plasticity and Learning via Microglial Activation and 25-Hydroxycholesterol**  
Yukitoshi Izumi, Anil G. Cashikar, Kathiresan Krishnan, Steven M. Paul, Douglas F. Covey, Steven J. Mennerick, and Charles F. Zorumski
- 10065 Balanced Enhancements of Synaptic Excitation and Inhibition Underlie Developmental Maturation of Receptive Fields in the Mouse Visual Cortex**  
Qi Fang, Ya-tang Li, Bo Peng, Zhong Li, Li I. Zhang, and Huizhong W. Tao

#### SYSTEMS/CIRCUITS

- 10080 Overexpressing Histone Deacetylase 5 in Rat Dorsal Striatum Alters Reward-Guided Decision-Making and Associated Neural Encoding**  
Heather J. Pribut, Daniela Vázquez, Alice D. Wei, Stephen S. Tennyson, Ian R. Davis, Matthew R. Roesch, and Xuan Li
- 10091 Distinct Fastigial Output Channels and Their Impact on Temporal Lobe Seizures**  
Martha L. Streng, Madison R. Tetzlaff, and Esther Krook-Magnuson
- 10108 Supervised Multisensory Calibration Signals Are Evident in VIP But Not MSTd**  
Adam Zaidel, Jean Laurens, Gregory C. DeAngelis, and Dora E. Angelaki
- 10120 Timescales of Local and Cross-Area Interactions during Neuroprosthetic Learning**  
Katherine Derosier, Tess L. Veuthey, and Karunesh Ganguly
- 10130 Predictive Feedback, Early Sensory Representations, and Fast Responses to Predicted Stimuli Depend on NMDA Receptors**  
Sounak Mohanta, Mohsen Afrasiabi, Cameron P. Casey, Sean Tanabe, Michelle J. Redinbaugh, Niranjana A. Kambi, Jessica M. Phillips, Daniel Polyakov, William Filbey, Joseph L. Austerweil, Robert D. Sanders, and Yuri B. Saalman

- 10148 Basal Forebrain Cholinergic Neurons Selectively Drive Coordinated Motor Learning in Mice**  
Yue Li and Edmund Hollis

#### BEHAVIORAL/COGNITIVE

- 10161 Interaural Place-of-Stimulation Mismatch Estimates Using CT Scans and Binaural Perception, But Not Pitch, Are Consistent in Cochlear-Implant Users**  
Joshua G.W. Bernstein, Kenneth K. Jensen, Olga A. Stakhovskaya, Jack H. Noble, Michael Hoa, H. Jeffery Kim, Robert Shih, Elizabeth Kolberg, Miranda Cleary, and Matthew J. Goupell

#### NEUROBIOLOGY OF DISEASE

- 10179 Global and Regional Damages in Retinal Ganglion Cell Axon Bundles Monitored Non-Invasively by Visible-Light Optical Coherence Tomography Fibrography**  
Marta Grannonico, David A. Miller, Mingna Liu, Pedro Norat, Christopher D. Deppmann, Peter A. Netland, Hao F. Zhang, and Xiaorong Liu
- 10194 Hyperexcitability and Pharmacological Responsiveness of Cortical Neurons Derived from Human iPSCs Carrying Epilepsy-Associated Sodium Channel Nav1.2-L1342P Genetic Variant**  
Zhefu Que, Maria I. Olivero-Acosta, Jingliang Zhang, Muriel Eaton, Anke M. Tukker, Xiaoling Chen, Jiaxiang Wu, Junkai Xie, Tiange Xiao, Kyle Wettschurack, Layan Yunis, J. Marshall Shafer, James A. Schaber, Jean-Christophe Rochet, Aaron B. Bowman, Chongli Yuan, Zhuo Huang, Chang-Deng Hu, Darci J. Trader, William C. Skarnes, and Yang Yang
- 10209 *Erratum:*** The article “Connecting TNF- $\alpha$  Signaling Pathways to iNOS Expression in a Mouse Model of Alzheimer’s Disease: Relevance for the Behavioral and Synaptic Deficits Induced by Amyloid  $\beta$  Protein” by Rodrigo Medeiros, Rui D. S. Prediger, Giselle F. Passos, Pablo Pandolfo, Filipe S. Duarte, Jeferson L. Franco, Alcir L. Dafre, Gabriella Di Giunta, Cláudia P. Figueiredo, Reinaldo N. Takahashi, Maria M. Campos, and João B. Calixto, appeared on pages 5394–5404 of the May 16, 2007 issue. An erratum for this article appears on page 10209.
- 10211 *Erratum:*** The article “Neuropathic Pain-Like Behavior after Brachial Plexus Avulsion in Mice: The Relevance of Kinin B1 and B2 Receptors” by Nara L. M. Quintão, Giselle F. Passos, Rodrigo Medeiros, Ana F. Paszcuk, Fabiana L. Motta, João B. Pesquero, Maria M. Campos, and João B. Calixto, appeared on pages 2856–2863 of the March 12, 2008 issue. An erratum for this article appears on page 10211.

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