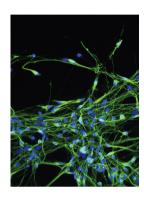


December 8, 2021 • Volume 41 Number 49 • www.jneurosci.org



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, Niranjan A. Kambi, Jessica M. Phillips, Daniel Polyakov,
 William Filbey, Joseph L. Austerweil, Robert D. Sanders, and Yuri B. Saalmann

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 Fibergraphy 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- α Signaling Pathways to iNOS Expression in a Mouse Model of Alzheimer's Disease: Relevance for the Behavioral and Synaptic Deficits Induced by Amyloid β 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.

Persons interested in becoming members of the Society for Neuroscience should contact the Membership Department at membership@sfn.org or 202-962-4911.

For current submission policies and manuscript preparation guidelines, authors should refer to our Information for Authors at https://www.jneurosci.org/content/information-authors.

Manuscripts should be submitted online at https://jneurosci.msubmit.net. Please contact the Central Office with any questions at jn@sfn.org or 202-962-4000.