



Cover legend: This image shows specialized functional domains along myelinated axons in mouse sciatic nerve. Immunostaining for neurofascin (blue) is present in the axolemma at nodes of Ranvier (strong staining of NF186) and in paranodal glia (weak staining of NF155). Immunolabeling of contactin-associated protein (green) reveals paranodes, and immunolabeling of voltage-gated K^+ channels (red) shows juxtapanodes. For more information, see the article by Susuki et al. (pages 6063–6075).

i This Week in The Journal

Journal Club

- 6025 **Insights into the Contribution of Voltage-Gated Sodium Channel 1.7 to Paclitaxel-Induced Neuropathy**
Laura Bernal

Research Articles

CELLULAR/MOLECULAR

- 6063 **Glial β II Spectrin Contributes to Paranode Formation and Maintenance**
Keiichiro Susuki, Daniel R. Zollinger, Kae-Jiun Chang, Chuansheng Zhang, Claire Yu-Mei Huang, Chang-Ru Tsai, Mauricio R. Galiano, Yanhong Liu, Savannah D. Benusa, Leonid M. Yermakov, Ryan B. Griggs, Jeffrey L. Dupree, and Matthew N. Rasband
- 6090 **Nerve Injury-Induced Chronic Pain Is Associated with Persistent DNA Methylation Reprogramming in Dorsal Root Ganglion**
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- 6102 **Activating Transcription Factor 4 (ATF4) Regulates Neuronal Activity by Controlling GABA_BR Trafficking**
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- 6114 **Loss of CaMKI Function Disrupts Salt Aversive Learning in *C. elegans***
Jana P. Lim, Holger Fehlauer, Alakananda Das, Gabriella Saro, Dominique A. Glauser, Anne Brunet, and Miriam B. Goodman
- 6130 **Perineuronal Nets in the Deep Cerebellar Nuclei Regulate GABAergic Transmission and Delay Eyeblink Conditioning**
Moritoshi Hirono, Satoshi Watanabe, Fuyuki Karube, Fumino Fujiyama, Shigenori Kawahara, Soichi Nagao, Yuchio Yanagawa, and Hiroaki Misonou
- 6145 **$\alpha_2\delta-4$ Is Required for the Molecular and Structural Organization of Rod and Cone Photoreceptor Synapses**
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- 6161 **Neural Network Interactions Modulate CRY-Dependent Photoresponses in *Drosophila***
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Deepa L. Ramamurthy and Leah A. Krubitzer
- 6190 Classification of Neurons in the Primate Reticular Formation and Changes after Recovery from Pyramidal Tract Lesion**
Boubker Zaaïmi, Demetris S. Soteropoulos, Karen M. Fisher, C. Nicholas Riddle, and Stuart N. Baker

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- 6223 Oscillatory Encoding of Visual Stimulus Familiarity**
Samuel T. Kissinger, Alexandr Pak, Yu Tang, Sotiris C. Masmanidis, and Alexander A. Chubykin

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- 6028 Deep Neural Networks for Modeling Visual Perceptual Learning**
Li K. Wenliang and Aaron R. Seitz
- 6076 Neural Prediction Errors Distinguish Perception and Misperception of Speech**
Helen Blank, Marlene Spangenberg, and Matthew H. Davis

NEUROBIOLOGY OF DISEASE

- 6045 Differential Neurotoxicity Related to Tetracycline Transactivator and TDP-43 Expression in Conditional TDP-43 Mouse Model of Frontotemporal Lobar Degeneration**
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- 6207 Alcohol Consumption during Adolescence in a Mouse Model of Binge Drinking Alters the Intrinsic Excitability and Function of the Prefrontal Cortex through a Reduction in the Hyperpolarization-Activated Cation Current**
Michael C. Salling, Mary Jane Skelly, Elizabeth Avegno, Samantha Regan, Tamara Zeric, Elcoma Nichols, and Neil L. Harrison

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