



Cover legend: This electron microscopy image shows a cross section of optic nerve from mice lacking N-Wasp in oligodendrocytes. It shows an abnormal myelin outfold that surrounds previously myelinated axons. For more information, see the article by Katanov et al. (pages 6103–6111).

6099 This Week in The Journal

Journal Club

- 6100 Exploring the Therapeutic Potential of Protein Tyrosine Phosphatase 1B in hAPP-J20 Mouse Model of Alzheimer's Disease**
Judy Ghalayini

Research Articles

CELLULAR/MOLECULAR

- 6103 N-Wasp Regulates Oligodendrocyte Myelination**
Christina Katanov, Nurit Novak, Anya Vainshtein, Ofra Golani, Jeffery L. Dupree, and Elior Peles
- 6112 Activity and Cytosolic Na⁺ Regulate Synaptic Vesicle Endocytosis**
Yun Zhu, Dainan Li, and Hai Huang
- 6121 Deletion of the Mitochondrial Matrix Protein Cyclophilin D Prevents Parvalbumin Interneuron Dysfunction and Cognitive Deficits in a Mouse Model of NMDA Hypofunction**
Aarron Phensy, Kathy L. Lindquist, Karen A. Lindquist, Dania Bairuty, Esha Gauba, Lan Guo, Jing Tian, Heng Du, and Sven Kroener
- 6133 Developmentally Transient CB1Rs on Cerebellar Afferents Suppress Afferent Input, Downstream Synaptic Excitation, and Signaling to Migrating Neurons**
Jesse L. Barnes, Claudia Mohr, Caitlin R. Ritchey, Chloe M. Erikson, Hiroko Shiina, and David J. Rossi

DEVELOPMENT/PLASTICITY/REPAIR

- 6146 Cerebral Dopamine Neurotrophic Factor Regulates Multiple Neuronal Subtypes and Behavior**
Yu-Chia Chen, Diego Baronio, Svetlana Semenova, Shamsiat Abdurakhmanova, and Pertti Panula
- 6165 Deletion of Calcineurin in Schwann Cells Does Not Affect Developmental Myelination, But Reduces Autophagy and Delays Myelin Clearance after Peripheral Nerve Injury**
Chelsey B. Reed, Luciana R. Frick, Adam Weaver, Mariapaola Sidoli, Elizabeth Schlant, M. Laura Feltri, and Lawrence Wrabetz

SYSTEMS/CIRCUITS

- 6177 Differential Impacts of Repeated Sampling on Odor Representations by Genetically-Defined Mitral and Tufted Cell Subpopulations in the Mouse Olfactory Bulb**
Thomas P. Eiting and Matt Wachowiak
- 6189 CCKergic Tufted Cells Differentially Drive Two Anatomically Segregated Inhibitory Circuits in the Mouse Olfactory Bulb**
Xicui Sun, Xiang Liu, Eric R. Starr, and Shaolin Liu
- 6207 Pupillary Dynamics Link Spontaneous and Task-Evoked Activations Recorded Directly from Human Insula**
Aaron Kucyi and Josef Parvizi

BEHAVIORAL/COGNITIVE

- 6219 Neurotelemetry Reveals Putative Predictive Activity in HVC during Call-Based Vocal Communications in Zebra Finches**
Shouwen Ma, Andries ter Maat, and Manfred Gahr

NEUROBIOLOGY OF DISEASE

- 6228 Depression and Social Defeat Stress Are Associated with Inhibitory Synaptic Changes in the Nucleus Accumbens**
Mitra Heshmati, Daniel J. Christoffel, Katherine LeClair, Flurin Cathomas, Sam A. Golden, Hossein Aleyasin, Gustavo Turecki, Allyson K. Friedman, Ming-Hu Han, Caroline Menard, and Scott J. Russo
- 6234 Dietary Amino Acids Impact LRRK2-Induced Neurodegeneration in Parkinson's Disease Models**
Vinita G. Chittoor-Vinod, Steffany Villalobos-Cantor, Hanna Roshak, Kelsey Shea, Leire Abalde-Atristain, and Ian Martin
- 6250 An Astrocytic Influence on Impaired Tonic Inhibition in Hippocampal CA1 Pyramidal Neurons in a Mouse Model of Rett Syndrome**
Qiping Dong, Jason Kim, Linh Nguyen, Qian Bu, and Qiang Chang

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