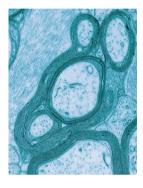


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Cover legend: This electron microscopy image shows a cross section of optic nerve from mice lacking N-Wasp in oligodendrocytes. It shows an abnormal myelin outfold that surrounds previously myelinated axons. For more information, see the article by 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, Shamsiiat Abdurakhmanova, and Pertti Panula

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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