



**Cover legend:** This image is an artistic rendering of an isolated neuron from a mouse lacking coxsackievirus and adenovirus receptors. The axon was labeled using Tau antibody (red) and dendrites were labeled with MAP-2 antibody (green). For more information, see the article by Zussy et al. (pages 9558–9571).

## i This Week in The Journal

### Journal Club

- 9513 **TRIM9 Mediates Netrin-1-Induced Neuronal Morphogenesis in the Developing and Adult Hippocampus**  
Jayne Aiken and Georgia Buscaglia

### Articles

#### CELLULAR/MOLECULAR

- 9558 **Coxsackievirus Adenovirus Receptor Loss Impairs Adult Neurogenesis, Synapse Content, and Hippocampus Plasticity**  
Charleine Zussy, Fabien Loustalot, Felix Junyent, Fabrizio Gardoni, Cyril Bories, Jorge Valero, Michel G. Desarménien, Florence Bernex, Daniel Henaff, Neus Bayo-Puxan, Jin-Wen Chen, Nicolas Lonjon, Yves de Koninck, João O. Malva, Jeffrey M. Bergelson, Monica di Luca, Giampietro Schiavo, Sara Salinas, and Eric J. Kremer
- 9590 **Resolvin D1 Programs Inflammation Resolution by Increasing TGF- $\beta$  Expression Induced by Dying Cell Clearance in Experimental Autoimmune Neuritis**  
Bangwei Luo, Fuyu Han, Kai Xu, Jinsong Wang, Zongwei Liu, Zigang Shen, Jia Li, Yu Liu, Man Jiang, Zhi-Yuan Zhang, and Zhiren Zhang
- 9696 **The Arp2/3 Complex Is Essential for Distinct Stages of Spine Synapse Maturation, Including Synapse Unsilencing**  
Erin F. Spence, Daniel J. Kanak, Benjamin R. Carlson, and Scott H. Soderling

#### DEVELOPMENT/PLASTICITY/REPAIR

- 9710 **The Core Molecular Machinery Used for Engulfment of Apoptotic Cells Regulates the JNK Pathway Mediating Axon Regeneration in *Caenorhabditis elegans***  
Strahil Iv. Pastuhov, Kota Fujiki, Anna Tsuge, Kazuma Asai, Sho Ishikawa, Kazuya Hirose, Kunihiro Matsumoto, and Naoki Hisamoto

#### SYSTEMS/CIRCUITS

- 9580 **Distinct fMRI Responses to Self-Induced versus Stimulus Motion during Free Viewing in the Macaque**  
Brian E. Russ, Takaaki Kaneko, Kadharbatcha S. Saleem, Rebecca A. Berman, and David A. Leopold

- 9604 **The Interglomerular Circuit Potently Inhibits Olfactory Bulb Output Neurons by Both Direct and Indirect Pathways**  
Shaolin Liu, Adam C. Puche, and Michael T. Shipley
- 9618 **The Role of Striatal Feedforward Inhibition in the Maintenance of Absence Seizures**  
Takafumi Arakaki, Séverine Mahon, Stéphane Charpier, Arthur Leblois, and David Hansel
- 9683 **Contributions of Rod and Cone Pathways to Retinal Direction Selectivity Through Development**  
Juliana M. Rosa, Ryan D. Morrie, Hans C. Baertsch, and Marla B. Feller

#### BEHAVIORAL/COGNITIVE

- 9516 **Dopamine Manipulation Affects Response Vigor Independently of Opportunity Cost**  
Alexandre Zénon, Sophie Devesse, and Etienne Olivier
- 9526 **Spatiotopic Adaptation in Visual Areas**  
Eckart Zimmermann, Ralph Weidner, Rouhollah O. Abdollahi, and Gereon R. Fink
- 9535 ***Drosophila* Neprilysins Are Involved in Middle-Term and Long-Term Memory**  
Oriane Turrel, Aurélie Lampin-Saint-Amaux, Thomas Préat, and Valérie Goguel
- 9547 **Methylphenidate Modulates Functional Network Connectivity to Enhance Attention**  
Monica D. Rosenberg, Sheng Zhang, Wei-Ting Hsu, Dustin Scheinost, Emily S. Finn, Xilin Shen, R. Todd Constable, Chiang-Shan R. Li, and Marvin M. Chun
- 9572 **Transitional Probabilities Are Prioritized over Stimulus/Pattern Probabilities in Auditory Deviance Detection: Memory Basis for Predictive Sound Processing**  
Maria Mittag, Rika Takegata, and István Winkler
- 9659 **Youthful Brains in Older Adults: Preserved Neuroanatomy in the Default Mode and Salience Networks Contributes to Youthful Memory in Superaging**  
Felicia W. Sun, Michael R. Stepanovic, Joseph Andreano, Lisa Feldman Barrett, Alexandra Touroutoglou, and Bradford C. Dickerson
- 9722 **Spinal Fbxo3-Dependent Fbxl2 Ubiquitination of Active Zone Protein RIM1 $\alpha$  Mediates Neuropathic Allodynia through Ca<sub>v</sub>2.2 Activation**  
Cheng-Yuan Lai, Yu-Cheng Ho, Ming-Chun Hsieh, Hsueh-Hsiao Wang, Jen-Kun Cheng, Yat-Pang Chau, and Hsien-Yu Peng
- 9739 **Prefrontal Cortex Networks Shift from External to Internal Modes during Learning**  
Scott L. Brincat and Earl K. Miller

#### NEUROBIOLOGY OF DISEASE

- 9633 **Schwann Cell O-GlcNAc Glycosylation Is Required for Myelin Maintenance and Axon Integrity**  
Sungsu Kim, Jason C. Maynard, Yo Sasaki, Amy Strickland, Diane L. Sherman, Peter J. Brophy, Alma L. Burlingame, and Jeffrey Milbrandt
- 9647 **Soluble Conformers of A $\beta$  and Tau Alter Selective Proteins Governing Axonal Transport**  
Mathew A. Sherman, Michael LaCroix, Fatou Amar, Megan E. Larson, Colleen Forster, Adriano Aguzzi, David A. Bennett, Martin Ramsden, and Sylvain E. Lesné

**9669 Self-Complementary AAV9 Gene Delivery Partially Corrects Pathology Associated with Juvenile Neuronal Ceroid Lipofuscinosis (CLN3)**

Megan E. Bosch, Amy Aldrich, Rachel Fallet, Jessica Odvody, Maria Burkovetskaya, Kaitlyn Schuberth, Julie A. Fitzgerald, Kevin D. Foust, and Tammy Kielian

**9755 Correction:** The article “Hierarchical Connectivity and Connection-Specific Dynamics in the Corticospinal–Corticostriatal Microcircuit in Mouse Motor Cortex” by Taro Kiritani, Ian R. Wickersham, H. Sebastian Seung, and Gordon M. G. Shepherd, appeared on pages 4992–5001 of the April 4, 2012 issue. A correction for this article appears on page 9755.

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