



**Cover legend:** This illustration shows one optic nerve from a C57BL/6 mouse brain. Astrocytes are labeled with GFAP (red) and oligodendrocytes are labeled with APC (green). Cell bodies are labeled with the nuclear marker DAPI (blue). The mouse optic nerve is a purely myelinated white matter tract and provides a novel model for studying preconditioning in white matter. For more information, see the article by Hamner et al. (pages 15599–15611).

## i This Week in The Journal

### Brief Communications

- 15696 The Neuropeptide Oxytocin Induces a Social Altruism Bias**  
Nina Marsh, Dirk Scheele, Holger Gerhardt, Sabrina Strang, Laura Enax, Bernd Weber, Wolfgang Maier, and René Hurlemann
- 15746 Investigating the Neural Correlates of Schemas: Ventromedial Prefrontal Cortex Is Necessary for Normal Schematic Influence on Memory**  
Kelsey N. Spalding, Samuel H. Jones, Melissa C. Duff, Daniel Tranel, and David E. Warren

### Articles

#### CELLULAR/MOLECULAR

- 15492 Active Dendrites and Differential Distribution of Calcium Channels Enable Functional Compartmentalization of Golgi Cells**  
Stephanie Rudolph, Court Hull, and Wade G. Regehr
- 15505 The Global Spike: Conserved Dendritic Properties Enable Unique  $Ca^{2+}$  Spike Generation in Low-Threshold Spiking Neurons**  
William M. Connelly, Vincenzo Crunelli, and Adam C. Errington
- 15539 Defects in Synaptic Plasticity, Reduced NMDA-Receptor Transport, and Instability of Postsynaptic Density Proteins in Mice Lacking Microtubule-Associated Protein 1A**  
Yosuke Takei, Yayoi S. Kikkawa, Nafiseh Atapour, Takao K. Hensch, and Nobutaka Hirokawa

#### DEVELOPMENT/PLASTICITY/REPAIR

- 15612 Actin-Cytoskeleton- and Rock-Mediated INM Are Required for Photoreceptor Regeneration in the Adult Zebrafish Retina**  
Manuela Lahne, Jingling Li, Rebecca M. Marton, and David R. Hyde
- 15666 A Smaug2-Based Translational Repression Complex Determines the Balance between Precursor Maintenance versus Differentiation during Mammalian Neurogenesis**  
Gianluca Amadei, Mark A. Zander, Guang Yang, Jason G. Dumelie, John P. Vessey, Howard D. Lipshitz, Craig A. Smibert, David R. Kaplan, and Freda D. Miller
- 15731 Neuronal RAR $\beta$  Signaling Modulates PTEN Activity Directly in Neurons and via Exosome Transfer in Astrocytes to Prevent Glial Scar Formation and Induce Spinal Cord Regeneration**  
Maria B. Goncalves, Tony Malmqvist, Earl Clarke, Chantal J. Hubens, John Grist, Carl Hobbs, Diogo Trigo, Mårten Risling, Maria Angeria, Peter Damberg, Thomas P. Carlstedt, and Jonathan P.T. Corcoran

- 15752 **Retinoic Acid Signaling Mediates Hair Cell Regeneration by Repressing *p27kip* and *sox2* in Supporting Cells**  
Davide Rubbini, Àlex Robert-Moreno, Esteban Hoijman, and Berta Alsina

#### SYSTEMS/CIRCUITS

- 15555 **Cortical Interneuron Subtypes Vary in Their Axonal Action Potential Properties**  
Amanda E. Casale, Amanda J. Foust, Thierry Bal, and David A. McCormick
- 15682 **Resonant Interneurons Can Increase Robustness of Gamma Oscillations**  
Ruben A. Tikidji-Hamburyan, Joan José Martínez, John A. White, and Carmen C. Canavier
- 15702 **Electrical and Optical Activation of Mesoscale Neural Circuits with Implications for Coding**  
Daniel C. Millard, Clarissa J. Whitmire, Clare A. Gollnick, Christopher J. Rozell, and Garrett B. Stanley

#### BEHAVIORAL/COGNITIVE

- 15479 **State Dependency of Chemosensory Coding in the Gustatory Thalamus (VPMpc) of Alert Rats**  
Haixin Liu and Alfredo Fontanini
- 15568 **Expression of Quinone Reductase-2 in the Cortex Is a Muscarinic Acetylcholine Receptor-Dependent Memory Consolidation Constraint**  
Akiva N. Rappaport, Eyal Jacob, Vijendra Sharma, Sharon Inberg, Alina Elkobi, Hadile Ounallah-Saad, Metsada Pasmanik-Chor, Efrat Edry, and Kobi Rosenblum

#### NEUROBIOLOGY OF DISEASE

- 15523 **Glutamate Receptors within the Mesolimbic Dopamine System Mediate Alcohol Relapse Behavior**  
Manuela Eisenhardt, Sarah Leixner, Rafael Luján, Rainer Spanagel, and Ainhoa Bilbao
- 15582 **Progressive Hearing Loss in Mice Carrying a Mutation in *Usp53***  
Marcin Kazmierczak, Suzan L. Harris, Piotr Kazmierczak, Prahar Shah, Valentin Starovoytov, Kevin K. Ohlemiller, and Martin Schwander
- 15599 **Ischemic Preconditioning in White Matter: Magnitude and Mechanism**  
Margaret A. Hamner, Zucheng Ye, Richard V. Lee, Jamie R. Colman, Thu Le, Davin C. Gong, Bruce R. Ransom, and Jonathan R. Weinstein
- 15635 **Brain State Is a Major Factor in Preseizure Hippocampal Network Activity and Influences Success of Seizure Intervention**  
Laura A. Ewell, Liang Liang, Caren Armstrong, Ivan Soltész, Stefan Leutgeb, and Jill K. Leutgeb
- 15649 **Human Umbilical Tissue-Derived Cells Promote Synapse Formation and Neurite Outgrowth via Thrombospondin Family Proteins**  
Sehwon Koh, Namsoo Kim, Henry H. Yin, Ian R. Harris, Nadine S. Dejneka, and Cagla Eroglu
- 15716 ***In Vivo* Detection of Age- and Disease-Related Increases in Neuroinflammation by <sup>18</sup>F-GE180 TSPO MicroPET Imaging in Wild-Type and Alzheimer's Transgenic Mice**  
Bin Liu, Kevin X. Le, Mi-Ae Park, Shuyan Wang, Anthony P. Belanger, Shipra Dubey, Jeffrey L. Frost, Peter Holton, Vladimir Reiser, Paul A. Jones, William Trigg, Marcelo F. Di Carli, and Cynthia A. Lemere

**15767** **Correction:** The article “*Zac1* Regulates the Differentiation and Migration of Neocortical Neurons via *Pac1*”, by Lata Adnani, Lisa Marie Langevin, Elodie Gautier, Rajiv Dixit, Kari Parsons, Saiqun Li, Gaurav Kaushik, Grey Wilkinson, Richard Wilson, Sarah Childs, Minh Dang Nguyen, Laurent Journot, Colette Dehay, and Carol Schuurmans, appeared on pages 13430–13447 of the September 30, 2015 issue. A correction for this article appears on page 15767.

**Correction:** The article “Is Parkinson’s Disease a Vesicular Dopamine Storage Disorder? Evidence from a Study in Isolated Synaptic Vesicles of Human and Nonhuman Primate Striatum”, by Christian Pifl, Alex Rajput, Harald Reither, Javier Blesa, Carmen Cavada, José A. Obeso, Ali H. Rajput, and Oleh Hornykiewicz, appeared on pages 8210–8218 of the June 11, 2014 issue. A correction for this article appears on page 15767.

---

Persons interested in becoming members of the Society for Neuroscience should contact the Membership Department, Society for Neuroscience, 1121 14th St., NW, Suite 1010, Washington, DC 20005, phone 202-962-4000.

Instructions for Authors are available at <http://www.jneurosci.org/misc/itoa.shtml>. Authors should refer to these Instructions online for recent changes that are made periodically.

*Brief Communications* Instructions for Authors are available via Internet ([http://www.jneurosci.org/misc/ifa\\_bc.shtml](http://www.jneurosci.org/misc/ifa_bc.shtml)).

Submissions should be submitted online using the following url: <http://jneurosci.msubmit.net>. Please contact the Central Office, via phone, fax, or e-mail with any questions. Our contact information is as follows: phone, 202-962-4000; fax, 202-962-4945; e-mail, [jn@sfn.org](mailto:jn@sfn.org).