



**Cover legend:** This confocal image from a postnatal day 26 mouse brain shows three cortical astrocytes labeled with GFAP (red) and membrane-targeted GFP (AAV5-gfaABC1D-lckGFP; cyan). Rosenberg et al. used this technique to analyze the morphology of individual astrocytes as they investigated the role of noradrenergic signaling in astrocyte maturation. See the manuscript by Rosenberg et al. (pages 8621–8636) for more information.

Cover image: Marci Rosenberg.

## 8578 This Week in The Journal

### Journal Club

- 8579 **Evidence for a Primary Prior Deficit as a Mechanism of Auditory Hallucinations**  
Julia Rodriguez-Sanchez, Hope Oloye, Ingrid M. Martin, and Daniel J. Hauke

### Research Articles

#### CELLULAR/MOLECULAR

- 8582 **Short- and Long-Term High-Fat Diet Exposure Differentially Alters Phasic and Tonic GABAergic Signaling onto Lateral Orbitofrontal Pyramidal Neurons**  
Lauren T. Seabrook, Colleen S. Peterson, Duncan Noble, Marissa Sobey, Temoor Tayyab, Tyra Kenney, Allap K. Judge, Mataea Armstrong, Shihao Lin, and Stephanie L. Borgland
- 8596 **Rescue of Normal Excitability in LGI1-Deficient Epileptic Neurons**  
Johanna Extrémet, Jorge Ramirez-Franco, Laure Fronzaroli-Molinieres, Norah Boumedine-Guignon, Norbert Ankri, Oussama El Far, Juan José Garrido, Dominique Debanne, and Michaël Russier
- 8607 ***In Vivo* Optical Interrogation of Neuronal Responses to Genetic, Cell Type-Specific Silencing**  
Firat Terzi, Johannes Knabbe, and Sidney B. Cambridge

#### DEVELOPMENT/PLASTICITY/REPAIR

- 8621  **$\beta$ -Adrenergic Signaling Promotes Morphological Maturation of Astrocytes in Female Mice**  
Marci F. Rosenberg, Marlesa I. Godoy, Sarah D. Wade, Mercedes F. Paredes, Ye Zhang, and Anna V. Molofsky
- 8637 **Changes in Cortical Microstructure of the Human Brain Resulting from Long-Term Motor Learning**  
Nico Lehmann, Norman Aye, Jörn Kaufmann, Hans-Jochen Heinze, Emrah Düzel, Gabriel Ziegler, and Marco Taubert

#### SYSTEMS/CIRCUITS

- 8649 **Dissociation of Centrally and Peripherally Induced Transcranial Magnetic Stimulation Effects in Nonhuman Primates**  
Nipun D. Perera, Ivan Alekseichuk, Sina Shirinpour, Miles Wischniewski, Gary Linn, Kurt Masiello, Brent Butler, Brian E. Russ, Charles E. Schroeder, Arnaud Falchier, and Alexander Opitz
- 8663 **Reward Modulates Visual Responses in the Superficial Superior Colliculus of Mice**  
Liad J. Baruchin, Matteo Alleman, and Sylvia Schröder

- 8681 **Dissociating the Contributions of Frontal Eye Field Activity to Spatial Working Memory and Motor Preparation**  
Donatas Jonikaitis, Behrad Noudoost, and Tirin Moore
- 8690 **Traumatic Stress-Induced Increases in Anxiety-like Behavior and Alcohol Self-Administration Are Mediated by Central Amygdala CRF1 Neurons That Project to the Lateral Hypothalamus**  
Marcus M. Weera, Daniel A. Webster, Rosetta S. Shackett, Federica Benvenuti, Jason W. Middleton, and Nicholas W. Gilpin
- 8700 **Stimulus-Induced Theta-Band LFP Oscillations Format Neuronal Representations of Social Chemosignals in the Mouse Accessory Olfactory Bulb**  
Oksana Cohen, Anat Kahan, Idan Steinberg, Sebastian T. Malinowski, Dan Rokni, Marc Spehr, and Yoram Ben-Shaul

#### BEHAVIORAL/COGNITIVE

- 8723 **Changes in Behavior and Neural Dynamics across Adolescent Development**  
Lucrezia Liuzzi, Daniel S. Pine, Nathan A. Fox, and Bruno B. Averbeck
- 8733 **Accentuated Paralimbic and Reduced Mesolimbic D<sub>2/3</sub>-Impulsivity Associations in Parkinson's Disease**  
Adam J. Stark, Alexander K. Song, Kalen J. Petersen, Kaitlyn R. Hay, Ya-Chen Lin, Paula Trujillo, Hakmook Kang, Jenna M. Collazzo, Manus J. Donahue, David H. Zald, and Daniel O. Claassen
- 8744 **Stabilizing Immature Dendritic Spines in the Auditory Cortex: A Key Mechanism for mTORC1-Mediated Enhancement of Long-Term Fear Memories**  
Giulia Concina, Antonia Gurgone, Elena M. Boggio, Alessandra Raspanti, Riccardo Pizzo, Noemi Morello, Enrico Castroflorio, Tommaso Pizzorusso, Benedetto Sacchetti, and Maurizio Giustetto
- 8756 **Menopause Status and Within-Group Differences in Chronological Age Affect the Functional Neural Correlates of Spatial Context Memory in Middle-Aged Females**  
Arielle Crestol, Sricharana Rajagopal, Rikki Lissaman, Annalise A. LaPlume, Stamatoula Pasvanis, Rosanna K. Olsen, Gillian Einstein, Emily G. Jacobs, and M. Natasha Rajah
- 8769 **Prefrontal Cortex Codes Representations of Target Identity and Feature Uncertainty**  
Phillip P. Witkowski and Joy J. Geng
- 8777 **An Accumulating Neural Signal Underlying Binocular Rivalry Dynamics**  
Shaozhi Nie (聂劭质), Sucharit Katyal, and Stephen A. Engel
- 8785 **Feature-Specific Salience Maps in Human Cortex**  
Daniel D. Thayer and Thomas C. Sprague

#### NEUROBIOLOGY OF DISEASE

- 8801 **Predicting Atrophy of the Cochlear Stria Vascularis from the Shape of the Threshold Audiogram**  
Charanjeet Kaur, Pei-Zhe Wu, Jennifer T. O'Malley, and M. Charles Liberman
- 8812 **Nascent A $\beta$ 42 Fibrillization in Synaptic Endosomes Precedes Plaque Formation in a Mouse Model of Alzheimer's-like  $\beta$ -Amyloidosis**  
Elizabeth A. Eckman, Dana M. Clausen, Santiago Solé-Domènech, Chris W. Lee, Cristina Sinobas-Pereira, Ryan J. Domalewski, Michael R. Nichols, and Javier Pacheco-Quinto

**8825** *Erratum:* The article “TACE/ADAM17 Is Essential for Oligodendrocyte Development and CNS Myelination,” by Javier Palazuelos, Howard C. Crawford, Michael Klingener, Bingru Sun, Jason Karelis, Elaine W. Raines, and Adan Aguirre, appeared on pages 11884–11896 of the September 3, 2014 issue. An erratum for this article appears on page 8825.

**8827** *Retraction:* The article “N-Cadherin Promotes Recruitment and Migration of Neural Progenitor Cells from the SVZ Neural Stem Cell Niche into Demyelinated Lesions,” by Michael Klingener, Manideep Chavali, Jagdeep Singh, Nadia McMillan, Alexandra Coomes, Peter J. Dempsey, Emily I. Chen, and Adan Aguirre, appeared on pages 9590–9606 of the July 16, 2014 issue. A retraction for this article appears on page 8827.

**8828** **Acknowledgment of Reviewers**

**8838** **Collaborating Reviewers**

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