



**Cover legend:** This pseudocolored confocal image shows a CA1 pyramidal neuron expressing GFP-tagged Trio. Prominent synaptic targeting of this glutamatergic synapse regulatory protein (in purple) can be seen in the apical and basal dendrites of the neuron. For more information, see the article by Tian and Paskus (pages 7768–7778). Cover image: Chen Tian and Jeremiah Paskus.

## 7697 This Week in The Journal

### Review

- 7698 **The Glymphatic System: A Novel Component of Fundamental Neurobiology**  
Lauren M. Hablitz and Maiken Nedergaard

### Research Articles

#### CELLULAR/MOLECULAR

- 7712 **Intercellular Arc Signaling Regulates Vasodilation**  
June Bryan de la Peña, Paulino Barragan-Iglesias, Tzu-Fang Lou, Nikesh Kunder, Sarah Loerch, Tarjani Shukla, Lokesh Basavarajappa, Jane Song, Dominique N. James, Salim Megat, Jamie K. Moy, Andi Wangzhou, Pradipta R. Ray, Kenneth Hoyt, Oswald Steward, Theodore J. Price, Jason Shepherd, and Zachary T. Campbell
- 7727 **G-Protein-Coupled Estrogen Receptor (GPER) in the Rostral Ventromedial Medulla Is Essential for Mobilizing Descending Inhibition of Itch**  
Ting Gao, Li Dong, Jiahong Qian, Xiaowei Ding, Yi Zheng, Meimei Wu, Li Meng, Yingfu Jiao, Po Gao, Ping Luo, Guohua Zhang, Changhao Wu, Xueyin Shi, and Weifang Rong
- 7742 **RIM-Binding Protein 2 Organizes Ca<sup>2+</sup> Channel Topography and Regulates Release Probability and Vesicle Replenishment at a Fast Central Synapse**  
Tanvi Butola, Theocharis Alvanos, Anika Hintze, Peter Koppensteiner, David Kleindienst, Ryuichi Shigemoto, Carolin Wichmann, and Tobias Moser
- 7768 **Autism Spectrum Disorder/Intellectual Disability-Associated Mutations in Trio Disrupt Neuroligin 1-Mediated Synaptogenesis**  
Chen Tian, Jeremiah D. Paskus, Erin Fingleton, Katherine W. Roche, and Bruce E. Herring

#### DEVELOPMENT/PLASTICITY/REPAIR

- 7779 **The Differentiation Status of Hair Cells That Regenerate Naturally in the Vestibular Inner Ear of the Adult Mouse**  
Antonia González-Garrido, Rémy Pujol, Omar López-Ramírez, Connor Finkbeiner, Ruth Anne Eatock, and Jennifer S. Stone

#### SYSTEMS/CIRCUITS

- 7797 **An Anatomically Constrained Model of V1 Simple Cells Predicts the Coexistence of Push–Pull and Broad Inhibition**  
M. Morgan Taylor, Diego Contreras, Alain Destexhe, Yves Frégnac, and Jan Antolik

- 7813 **From Receptive to Perceptive Fields: Size-Dependent Asymmetries in Both Negative Afterimages and Subcortical On and Off Post-Stimulus Responses**  
Xu Liu, Hui Li, Ye Wang, Tianhao Lei, Jijun Wang, Lothar Spillmann,  
Ian Max Andolina, and Wei Wang
- 7831 **The Effect of Serotonin Receptor 5-HT1B on Lateral Inhibition between Spiny Projection Neurons in the Mouse Striatum**  
Stefan Pommer, Yumiko Akamine, Serge N. Schiffmann,  
Alban de Kerchove d'Exaerde, and Jeffery R. Wickens
- 7848 **Neuronal Switching between Single- and Dual-Network Activity via Modulation of Intrinsic Membrane Properties**  
Savanna-Rae H. Fahoum and Dawn M. Blitz

#### BEHAVIORAL/COGNITIVE

- 7864 **Dissociating the Neural Correlates of Consciousness and Task Relevance in Face Perception Using Simultaneous EEG-fMRI**  
Torge Dellert, Miriam Müller-Bardorff, Insa Schlossmacher, Michael Pitts,  
David Hofmann, Maximilian Bruchmann, and Thomas Straube
- 7876 **Linear Integration of Sensory Evidence over Space and Time Underlies Face Categorization**  
Gouki Okazawa, Long Sha, and Roozbeh Kiani
- 7894 **Reactivation of Single-Episode Pain Patterns in the Hippocampus and Decision Making**  
G. Elliott Wimmer and Christian Büchel
- 7909 **Neural Evidence for Representational Persistence Within Events**  
Youssef Ezzyat and Lila Davachi
- 7921 **Erratum:** The article "S-Nitrosylation of Divalent Metal Transporter 1 Enhances Iron Uptake to Mediate Loss of Dopaminergic Neurons and Motoric Deficit" by Chao Liu, Cheng-Wu Zhang, Shun Qiang Lo, Seok Ting Ang, Katherine Chee Meng Chew, Dejie Yu, Bing Han Chai, Bobby Tan, Fai Tsang, Yee Kit Tai, Bryce Wei Quan Tan, Mui Cheng Liang, Hwee Tong Tan, Jia Ying Tang, Mitchell Kim Peng Lai, John Jia En Chua, Maxey Ching Ming Chung, Sanjay Khanna, Kah-Leong Lim, and Tuck Wah Soong appeared on pages 8364–8377 of the September 26, 2018 issue. An erratum for this article appears on page 7921.

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