



Cover legend: This image shows the two major cone bipolar cell types of primate retina synapsing with the terminal (pedicle) of a short-wavelength-sensitive (S) cone photoreceptor. The pedicle's axon descends from the top of the figure (in partial transparency) and its base contains 17 synaptic ribbons (red) marking the sites of glutamate release. S cones are distinguished by their contacts with "blue-cone" bipolar cells (shades of blue-violet) whose dendrites form large endings close to the synaptic ribbons and are depolarized by light onset. An "OFF midget" bipolar cell (yellow) forms contacts at the base of the pedicle and is excited by light offset. These S OFF-midget bipolar cells initiate a unique private-line pathway from S cones to midget ganglion cells specialized for color coding. Yeon Jin Kim and Ursula Bertram helped with image preparation. For more information see the article by Wool et al. (pages 7893–7909).

7811 This Week in The Journal

Journal Club

- 7812 **RIM1 $\alpha\beta$ Are Required at the Corticostriatal Synapses for Habit Formation**
Sergio Hidalgo

Research Articles

CELLULAR/MOLECULAR

- 7815 **Neonatal Injury Alters Sensory Input and Synaptic Plasticity in GABAergic Interneurons of the Adult Mouse Dorsal Horn**
Jie Li and Mark L. Baccei
- 7826 **Paradoxical Excitatory Impact of SK Channels on Dendritic Excitability**
Tobias Bock, Suraj Honnuraiah, and Greg J. Stuart
- 7840 **Promiscuous G-Protein-Coupled Receptor Inhibition of Transient Receptor Potential Melastatin 3 Ion Channels by G $\beta\gamma$ Subunits**
Omar Alkhatib, Robson da Costa, Clive Gentry, Talisia Quallo, Stuart Bevan, and David A Andersson

DEVELOPMENT/PLASTICITY/REPAIR

- 7853 **Transient Hypoxemia Disrupts Anatomical and Functional Maturation of Preterm Fetal Ovine CA1 Pyramidal Neurons**
Evelyn McClendon, Kang Wang, Kiera Degener-O'Brien, Matthew W. Hagen, Xi Gong, Thuan Nguyen, Wendy W. Wu, James Maylie, and Stephen A. Back
- 7872 **Imbalanced Corticospinal and Reticulospinal Contributions to Spasticity in Humans with Spinal Cord Injury**
Sina Sangari and Monica A. Perez

SYSTEMS/CIRCUITS

- 7882 **A Whole-Body Sensory-Motor Gradient is Revealed in the Medial Wall of the Parietal Lobe**
Noa Zeharia, Shir Hofstetter, Tamar Flash, and Amir Amedi
- 7893 **Connectomic Identification and Three-Dimensional Color Tuning of S-OFF Midget Ganglion Cells in the Primate Retina**
Lauren E. Wool, Orin S. Packer, Qasim Zaidi, and Dennis M. Dacey
- 7910 **Muscarinic Inhibition of Hypoglossal Motoneurons: Possible Implications for Upper Airway Muscle Hypotonia during REM Sleep**
Lin Zhu, Nancy L. Chamberlin, and Elda Arrigoni

BEHAVIORAL/COGNITIVE

- 7920 **Dopamine Enhances Item Novelty Detection via Hippocampal and Associative Recall via Left Lateral Prefrontal Cortex Mechanisms**
Mareike Clos, Nico Bunzeck, and Tobias Sommer
- 7934 **Differential Regulation of Innate and Learned Behavior by *Creb1/Crh-1* in *Caenorhabditis elegans***
Yogesh Dahiya, Saloni Rose, Shruti Thapliyal, Shivam Bhardwaj, Maruthi Prasad, and Kavita Babu
- 7947 **Inhibition of FGF Receptor-1 Suppresses Alcohol Consumption: Role of PI3 Kinase Signaling in Dorsomedial Striatum**
Oren Even-Chen and Segev Barak
- 7958 **Neuronal Myocyte-Specific Enhancer Factor 2D (MEF2D) Is Required for Normal Circadian and Sleep Behavior in Mice**
Jennifer A. Mohawk, Kimberly H. Cox, Makito Sato, Seung-Hee Yoo, Masashi Yanagisawa, Eric N. Olson, and Joseph S. Takahashi
- 7968 **Comparison of Neurochemical and BOLD Signal Contrast Response Functions in the Human Visual Cortex**
I. Betina Ip, Uzay E. Emir, Andrew J. Parker, Jon Campbell, and Holly Bridge

NEUROBIOLOGY OF DISEASE

- 7976 **p110 δ PI3-Kinase Inhibition Perturbs APP and TNF α Trafficking, Reduces Plaque Burden, Dampens Neuroinflammation, and Prevents Cognitive Decline in an Alzheimer's Disease Mouse Model**
Ramón Martínez-Mármol, Nika Mohannak, Lei Qian, Tong Wang, Rachel S. Gormal, Marc J. Ruitenber, Bart Vanhaesebroeck, Elizabeth J. Coulson, and Frédéric A. Meunier
- 7992 **Erratum:** The article "Neurogenesis during Abstinence Is Necessary for Context-Driven Methamphetamine-Related Memory," by Melissa H. Galinato, Yoshio Takashima, McKenzie J. Fannon, Leon W. Quach, Roberto J. Morales Silva, Karthik K. Mysore, Michael J. Terranova, Rahul R. Dutta, Ryan W. Ostrom, Sucharita S. Somkuwar and Chitra D. Mandyam, appeared on pages 2029–2042 of the February 21, 2018 issue. An erratum for this article appears on p. 7992.

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