



Cover legend: This image shows color maps from computational modeling showing the electrotonic spread across dendritic layers of direction-selective ganglion cells. Within each pair of rows, the upper images are the Off layer and the lower images are the On layer. From left to right are snapshots taken 20 ms, 30 ms, 40 ms, and 60 ms after a simulated bipolar cell input onto the Off layer at the location indicated by *. For more information, see the article by Huang et al. (pages 4449–4469) and see accompanying Movies 6, 7, and 9. Cover Image: Xiaolin Huang from original video by Robert G. Smith.

4414 This Week in The Journal

Research Articles

CELLULAR/MOLECULAR

4415 Dynein Is Required for Rab7-Dependent Endosome Maturation, Retrograde Dendritic Transport, and Degradation

Chan Choo Yap, Laura Digilio, Lloyd P. McMahon, Tuanlao Wang, and Bettina Winckler

DEVELOPMENT/PLASTICITY/REPAIR

4435 Identification of a Developmental Switch in Information Transfer between Whisker S1 and S2 Cortex in Mice

Linbi Cai, Jenq-Wei Yang, Chia-Fang Wang, Shen-Ju Chou, Heiko J. Luhmann, and Theofanis Karayannis

SYSTEMS/CIRCUITS

4449 Visual Stimulation Induces Distinct Forms of Sensitization of On-Off Direction-Selective Ganglion Cell Responses in the Dorsal and Ventral Retina

Xiaolin Huang (黄晓霖), Alan Jaehyun Kim, Héctor Acarón Ledesma, Jennifer Ding, Robert G. Smith, and Wei Wei

4470 Biophysical and Architectural Mechanisms of Subthalamic Theta under Response Conflict

Prannath Moolchand, Stephanie R. Jones, and Michael J. Frank

4488 Sex Differences in the Activity of Basolateral Amygdalar Neurons That Project to the Bed Nucleus of the Stria Terminalis and Their Role in Anticipatory Anxiety

Jaime E. Vantrease, Brittany Avonts, Mallika Padival, M. Regina DeJoseph, Janice H. Urban, and J. Amiel Rosenkranz

4505 Aged Rats Exhibit Altered Behavior-Induced Oscillatory Activity, Place Cell Firing Rates, and Spatial Information Content in the CA1 Region of the Hippocampus

Lindsey M. Crown, Daniel T. Gray, Lesley A. Schimanski, Carol A. Barnes, and Stephen L. Cowen

4517 Human Spindle Variability

Christopher Gonzalez, Xi Jiang, Jorge Gonzalez-Martinez, and Eric Halgren

4538 *In Vivo* Multi-Day Calcium Imaging of CA1 Hippocampus in Freely Moving Rats Reveals a High Preponderance of Place Cells with Consistent Place Fields

Hannah S. Wirtshafter and John F. Disterhoft

BEHAVIORAL/COGNITIVE

- 4555 **Evidence for the Normalization Effects of Medication for Opioid Use Disorder on Functional Connectivity in Neonates with Prenatal Opioid Exposure**
Janelle Liu, Karen Grewen, and Wei Gao
- 4567 **Perceptual Uncertainty Alternates Top-down and Bottom-up Fronto-Temporal Network Signaling during Response Inhibition**
Kaho Tsumura, Reiko Shintaki, Masaki Takeda, Junichi Chikazoe, Kiyoshi Nakahara, and Koji Jimura
- 4580 **Sound Localization of World and Head-Centered Space in Ferrets**
Stephen M. Town and Jennifer K. Bizley

NEUROBIOLOGY OF DISEASE

- 4594 **CREB Inactivation by HDAC1/PP1 γ Contributes to Dopaminergic Neurodegeneration in Parkinson's Disease**
Xiaoyi Xu (许潇依), Xin He (何鑫), Zeyan Zhang (张泽彦), Yanyi Chen (陈彦伊), Junyu Li (黎俊宇), Shanshan Ma (马珊珊), Qiaoying Huang (黄巧莹), and Mingtao Li (黎明涛)
- 4605 **Erratum:** The article "Temporal Signatures of Criticality in Human Cortical Excitability as Probed by Early Somatosensory Responses" by Tilman Stephani, Gunnar Waterstraat, Stefan Haufe, Gabriel Curio, Arno Villringer, and Vadim V. Nikulin, appeared on pages 6572–6583 of the August 19, 2020 issue. An erratum for this article appears on page 4605.

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