



Cover legend: This image shows a repeating pattern of electroretinogram traces from wild-type (white) mouse retinas and retinas in which the hyperpolarization-activated cation channel HCN1 was knocked out selectively in rods (cyan). The traces show a family of responses to a repetitive flash of light at increasing frequencies. The traces are overlain on the pupil of an eye with a blue iris. This reveals that in the absence of HCN1, rod signaling is prolonged and suppresses cone signaling. For more information, see the article by Lankford et al. (pages 4231–4249). Cover image: Sheila Baker with eye image from magic26/shutterstock.com.

4230 This Week in The Journal

Research Articles

CELLULAR/MOLECULAR

- 4231 **Cone-Driven Retinal Responses Are Shaped by Rod But Not Cone HCN1**
Colten K. Lankford, Yumiko Umino, Deepak Poria, Vladimir Kefalov, Eduardo Solessio, and Sheila A. Baker

DEVELOPMENT/PLASTICITY/REPAIR

- 4250 **ASD/OCD-Linked Protocadherin-10 Regulates Synapse, But Not Axon, Development in the Amygdala and Contributes to Fear- and Anxiety-Related Behaviors**
Naosuke Hoshina, Erin M. Johnson-Venkatesh, Veronica R. Rally, Jaanvi Sant, Miyuki Hoshina, Mariel P. Seiglie, and Hisashi Umemori

SYSTEMS/CIRCUITS

- 4267 **Neurons in the Dorsomedial Hypothalamus Promote, Prolong, and Deepen Torpor in the Mouse**
Michael Ambler, Timna Hitrec, Andrew Wilson, Matteo Cerri, and Anthony Pickering
- 4278 **Coupling of Mouse Olfactory Bulb Projection Neurons to Fluctuating Odor Pulses**
Debanjan Dasgupta, Tom P. A. Warner, Andrew Erskine, and Andreas T. Schaefer
- 4297 **Pairing-Dependent Plasticity in a Dissected Fly Brain Is Input-Specific and Requires Synaptic CaMKII Enrichment and Nighttime Sleep**
Mohamed Adel, Nannan Chen, Yunpeng Zhang, Martha L. Reed, Christina Quasney, and Leslie C. Griffith
- 4311 **Dynamic Distortion of Orientation Representation after Learning in the Mouse Primary Visual Cortex**
Julien Corbo, John P. McClure Jr., O. Batuhan Erkat, and Pierre-Olivier Polack
- 4326 **A Direct Comparison of Theta Power and Frequency to Speed and Acceleration**
Jack P. Kennedy, Yuchen Zhou, Y. Qin, Sarah D. Lovett, A. Sheremet, S. N. Burke, and A. P. Maurer

BEHAVIORAL/COGNITIVE

- 4342 **Anterior Cingulate Cortex Signals the Need to Control Intrusive Thoughts during Motivated Forgetting**
Maité Crespo-García, Yulin Wang, Mojun Jiang, Michael C. Anderson, and Xu Lei

- 4360 Prediction Error Determines Whether NMDA Receptors in the Basolateral Amygdala Complex Are Involved in Pavlovian Fear Conditioning**
Matthew J. Williams-Spooner, Andrew J. Delaney, R. Frederick Westbrook, and Nathan M. Holmes
- 4380 Signals from Single-Opponent Cortical Cells in the Human cVEP**
Valerie Nunez, James Gordon, and Robert Shapley
- 4394 Dopaminergic Modulation of Dynamic Emotion Perception**
B. A. Schuster, S. Sowden, A. J. Rybicki, D. S. Fraser, C. Press, P. Holland, and J. L. Cook

NEUROBIOLOGY OF DISEASE

- 4401 Brain Network Allostasis after Chronic Alcohol Drinking Is Characterized by Functional Dedifferentiation and Narrowing**
Úrsula Pérez-Ramírez, Víctor J. López-Madrona, Andrés Pérez-Segura, Vicente Pallarés, Andrea Moreno, Roberto Ciccocioppo, Petri Hyttiä, Wolfgang H. Sommer, David Moratal, and Santiago Canals

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