



Cover legend: 3-D model from EM tomography showing the organization of the post-synaptic processes in the rod photoreceptor spherule. Horizontal cell axon terminals, red and blue; rod bipolar cell dendrites, yellow and green; part of the synaptic ribbon, gold. The membrane of the spherule invagination is not shown. For more information, see the article by Torten, Fisher et al. (pages 5468–5482).
Cover image: Steve Fisher and Gil Torten.

5431 This Week in The Journal

Research Articles

CELLULAR/MOLECULAR

5432 Dual Regulation of Spine-Specific and Synapse-to-Nucleus Signaling by PKC δ during Plasticity

Lesley A. Colgan, Paula Parra-Bueno, Heather L. Holman, Xun Tu, Anant Jain, Mariah F. Calubag, Jaime A. Mislser, Chancellor Gary, Goksu Oz, Irena Suponitsky-Kroyter, Elwy Okaz, and Ryohei Yasuda

5448 Ubiquitination of the GluA1 Subunit of AMPA Receptors Is Required for Synaptic Plasticity, Memory, and Cognitive Flexibility

Sumasri Guntupalli, Pojeong Park, Dae Hee Han, Lingrui Zhang, Xuan Ling Hilary Yong, Mitchell Ringuet, Daniel G. Blackmore, Dhanisha J. Jhaveri, Frank Koentgen, Jocelyn Widagdo, Bong-Kiun Kaang, and Victor Anggono

5458 Monoacylglycerol Lipase Protects the Presynaptic Cannabinoid 1 Receptor from Desensitization by Endocannabinoids after Persistent Inflammation

Courtney A. Bouchet, Kylie B. McPherson, Basile Coutens, Aaron Janowsky, and Susan L. Ingram

5468 Three-Dimensional Ultrastructure of the Normal Rod Photoreceptor Synapse and Degenerative Changes Induced by Retinal Detachment

Gil Torten, Steven K. Fisher, Kenneth A. Linberg, Gabriel Luna, Guy Perkins, Mark H. Ellisman, and David S. Williams

DEVELOPMENT/PLASTICITY/REPAIR

5483 Delaying the GABA Shift Indirectly Affects Membrane Properties in the Developing Hippocampus

Carlijn Peerboom, Sam de Kater, Nikki Jonker, Marijn P.J.M. Rieter, Tessel Wijne, and Corette J. Wierenga

SYSTEMS/CIRCUITS

5501 Neuromedin B-Expressing Neurons in the Retrotrapezoid Nucleus Regulate Respiratory Homeostasis and Promote Stable Breathing in Adult Mice

George M.P.R. Souza, Daniel S. Stornetta, Yingtang Shi, Eunu Lim, Faye E. Berry, Douglas A. Bayliss, and Stephen B.G. Abbott

5521 Interchangeable Role of Motor Cortex and Reafference for the Stable Execution of an Orofacial Action

Michaël A. Elbaz, Maxime Demers, David Kleinfeld, Christian Ethier, and Martin Deschênes

BEHAVIORAL/COGNITIVE

- 5537 **Visual Information Is Predictively Encoded in Occipital Alpha/Low-Beta Oscillations**
William Turner, Tessel Blom, and Hinze Hogendoorn
- 5546 **Effects of Experiencing CS-US Pairings on Instructed Fear Reversal**
David Wisniewski, Senne Braem, Carlos González-García, Jan De Houwer, and Marcel Brass
- 5559 **Regulation of the Ca²⁺ Channel Ca_v1.2 Supports Spatial Memory and Its Flexibility and LTD**
Kyle E. Ireton, Xiaoming Xing, Karam Kim, Justin C. Weiner, Ariel A. Jacobi, Aarushi Grover, Molly Foote, Yusuke Ota, Robert Berman, Timothy Hanks, and Johannes W. Hell

NEUROBIOLOGY OF DISEASE

- 5574 **A Cellular Ground Truth to Develop MRI Signatures in Glioma Models by Correlative Light Sheet Microscopy and Atlas-Based Coregistration**
Katharina Schregel, Lennart Heinz, Jessica Hunger, Chenchen Pan, Julia Bode, Manuel Fischer, Volker Sturm, Varun Venkataramani, Kianush Karimian-Jazi, Dennis A. Agardy, Yannik Streibel, Roland Zerelles, Wolfgang Wick, Sabine Heiland, Theresa Bunse, Björn Tews, Michael Platten, Frank Winkler, Martin Bendszus, and Michael O. Breckwoldt
- 5588 **Erratum:** The article “Phase Alignment of Low-Frequency Neural Activity to the Amplitude Envelope of Speech Reflects Evoked Responses to Acoustic Edges, Not Oscillatory Entrainment,” by Yulia Oganian, Katsuaki Kojima, Assaf Breska, Chang Cai, Anne Findlay, Edward Chang, and Srikantan S. Nagarajan, appeared on pages 3909–3921 of the May 24, 2023 issue. An erratum for this article appears on page 5588.

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