



**Cover legend:** This image shows an output neuron (green) of a higher-order olfactory center (mushroom body) and a giant GABAergic neuron (magenta), the former being presynaptic to the latter, in the cockroach brain. The GABAergic neuron provides feedback that controls the gain of odor responses in the mushroom-body output neuron. (Pages 8690–8704).

## 8613 This Week in The Journal

### Journal Club

#### 8614 Pursuing the Molecular Nexus Connecting Diabetes and the Associated Cognitive Impairments

Daniel J. Torres, Naghum Alfulaj, Alexandru R. Sasuclark, Lígia M. Watanabe, and Herena Y. Ha

### Research Articles

#### CELLULAR/MOLECULAR

#### 8617 RIMB-1/RIM-Binding Protein and UNC-10/RIM Redundantly Regulate Presynaptic Localization of the Voltage-Gated Calcium Channel in *Caenorhabditis elegans*

Yuto Kushibiki, Yishi Jin, and Hidenori Taru

#### 8632 Isoform Specificity of PKMs during Long-Term Facilitation in *Aplysia* Is Mediated through Stabilization by KIBRA

Larissa Ferguson, Jianguan Hu, Diancai Cai, Shanping Chen, Tyler W. Dunn, Kaycey Pearce, David L. Glanzman, Samuel Schacher, and Wayne S. Sossin

#### DEVELOPMENT/PLASTICITY/REPAIR

#### 8645 Postnatal Development of Functional Projections from Parasubiculum and Presubiculum to Medial Entorhinal Cortex in the Rat

Cathrin B. Canto, Noriko Koganezawa, Mariá José Lagartos-Donate, Kally C. O'Reilly, Huibert D. Mansvelder, and Menno P. Witter

#### SYSTEMS/CIRCUITS

#### 8664 Adaptive Efficient Coding of Correlated Acoustic Properties

Kai Lu, Wanyi Liu, Kelsey Dutta, Peng Zan, Jonathan B. Fritz, and Shihab A. Shamma

#### 8679 A Sound-Sensitive Source of Alpha Oscillations in Human Non-Primary Auditory Cortex

Alexander J. Billig, Björn Herrmann, Ariane E. Rhone, Phillip E. Gander, Kirill V. Nourski, Beau F. Snoad, Christopher K. Kovach, Hiroto Kawasaki, Matthew A. Howard III, and Ingrid S. Johnsrude

#### 8690 Separate But Interactive Parallel Olfactory Processing Streams Governed by Different Types of GABAergic Feedback Neurons in the Mushroom Body of a Basal Insect

Naomi Takahashi, Hiroshi Nishino, Mana Domae, and Makoto Mizunami

#### 8705 Network Degeneracy and the Dynamics of Task Switching in the Feeding Circuit in *Aplysia*

Yanqing Wang, Klaudiusz R. Weiss, and Elizabeth C. Cropper

- 8717 **Insular Cortex Projections to Nucleus Accumbens Core Mediate Social Approach to Stressed Juvenile Rats**  
Morgan M. Rogers-Carter, Anthony Djerdjaj, K. Bates Gribbons, Juan A. Varela, and John P. Christianson

#### BEHAVIORAL/COGNITIVE

- 8730 ***Drosophila* Bruton's Tyrosine Kinase Regulates Habituation Latency and Facilitation in Distinct Mushroom Body Neurons**  
Ilianna G. Roussou, Katerina Papanikolopoulou, Charalambos Savakis, and Efthimios M. C. Skoulakis
- 8744 **Coordination of Human Hippocampal Sharpwave Ripples during NREM Sleep with Cortical Theta Bursts, Spindles, Downstates, and Upstates**  
Xi Jiang, Jorge Gonzalez-Martinez, and Eric Halgren
- 8762 **Cannabidiol Counteracts the Psychotropic Side-Effects of  $\Delta$ -9-Tetrahydrocannabinol in the Ventral Hippocampus through Bidirectional Control of ERK1-2 Phosphorylation**  
Roger Hudson, Justine Renard, Christopher Norris, Walter J. Rushlow, and Steven R. Laviolette
- 8778 **Toward Robust Functional Neuroimaging Genetics of Cognition**  
Julia Uddén, Annika Hultén, Katarina Bendtz, Zachary Mineroff, Katerina S. Kucera, Arianna Vino, Evelina Fedorenko, Peter Hagoort, and Simon E. Fisher

#### NEUROBIOLOGY OF DISEASE

- 8788 **Higher CSF Tau Levels Are Related to Hippocampal Hyperactivity and Object Mnemonic Discrimination in Older Adults**  
David Berron, Arturo Cardenas-Blanco, Daniel Bittner, Coraline D. Metzger, Annika Spottke, Michael T. Heneka, Klaus Fliessbach, Anja Schneider, Stefan J. Teipel, Michael Wagner, Oliver Speck, Frank Jessen, and Emrah Düzel
- 8798 **Circuit-Specific Early Impairment of Proprioceptive Sensory Neurons in the SOD1<sup>G93A</sup> Mouse Model for ALS**  
Soju Seki, Toru Yamamoto, Kiara Quinn, Igor Spigelman, Antonios Pantazis, Riccardo Olcese, Martina Wiedau-Pazos, Scott H. Chandler, and Sharmila Venugopal
- 8816 **Amyloid-Beta Modulates Low-Threshold Activated Voltage-Gated L-Type Calcium Channels of Arcuate Neuropeptide Y Neurons Leading to Calcium Dysregulation and Hypothalamic Dysfunction**  
Makoto Ishii, Abigail J. Hiller, Laurie Pham, Matthew J. McGuire, Costantino Iadecola, and Gang Wang

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