



Cover legend: This image shows active neurons (red) in layer 2/3 of mouse primary visual cortex, along with functional connections (red lines) between the neurons. The top and bottom neurons were identified as pattern completion neurons using a graphical model called conditional random fields (CRFs). Pattern completion neurons are able to recall a neuronal ensemble; note that the two identified here are functionally connected with all the other neurons in the image. For more information, see the article by Carrillo-Reid. (pages 8577–8588).
Image credit: Luis Carrillo-Reid.

8460 This Week in The Journal

Research Articles

CELLULAR/MOLECULAR

8461 Unbalanced Regulation of $\alpha 7$ nAChRs by Ly6h and NACHO Contributes to Neurotoxicity in Alzheimer's Disease

Meilin Wu, Clifford Z. Liu, Erika A. Barrall, Robert A. Rissman, and William J. Joiner

8475 Constitutive Phosphorylation as a Key Regulator of TRPM8 Channel Function

Bastián Rivera, Claudio Moreno, Boris Lavanderos, Ji Yeon Hwang, Jorge Fernández-Trillo, Kang-Sik Park, Patricio Orio, Félix Viana, Rodolfo Madrid, and María Pertusa

8494 *In Vivo* Calcium Imaging Visualizes Incision-Induced Primary Afferent Sensitization and Its Amelioration by Capsaicin Pretreatment

Hirotake Ishida, Yan Zhang, Ruben Gomez, John Shannonhouse, Hyeonwi Son, Ratan Banik, and Yu Shin Kim

DEVELOPMENT/PLASTICITY/REPAIR

8508 Retinal Ganglion Cell Axon Regeneration Requires Complement and Myeloid Cell Activity within the Optic Nerve

Sheri L. Peterson, Yiqing Li, Christina J. Sun, Kimberly A. Wong, Kylie S. Leung, Silmara de Lima, Nicholas J. Hanovice, Kenya Yuki, Beth Stevens, and Larry I. Benowitz

8532 The Akt-mTOR Pathway Drives Myelin Sheath Growth by Regulating Cap-Dependent Translation

Karlie N. Fedder-Semmes and Bruce Appel

SYSTEMS/CIRCUITS

8545 Optogenetic Activation of V1 Interneurons Reveals the Multimodality of Spinal Locomotor Networks in the Neonatal Mouse

Melanie Falgairolle and Michael J. O'Donovan

8562 Restoring the Molecular Clockwork within the Suprachiasmatic Hypothalamus of an Otherwise Clockless Mouse Enables Circadian Phasing and Stabilization of Sleep-Wake Cycles and Reverses Memory Deficits

Elizabeth S. Maywood, Johanna E. Chesham, Raphaëlle Winsky-Sommerer, and Michael H. Hastings

- 8577 **Identification of Pattern Completion Neurons in Neuronal Ensembles Using Probabilistic Graphical Models**
Luis Carrillo-Reid, Shuting Han, Darik O'Neil, Ekaterina Taralova, Tony Jebara, and Rafael Yuste

BEHAVIORAL/COGNITIVE

- 8589 **Impaired Refinement of Kinematic Variability in Huntington Disease Mice on an Automated Home Cage Forelimb Motor Task**
Cameron L. Woodard, Marja D. Sepers, and Lynn A. Raymond
- 8603 **Decoding Object-Based Auditory Attention from Source-Reconstructed MEG Alpha Oscillations**
Ingmar E. J. de Vries, Giorgio Marinato, and Daniel Baldauf
- 8618 **Motor Cortex Causally Contributes to Vocabulary Translation following Sensorimotor-Enriched Training**
Brian Mathias, Andrea Waibel, Gesa Hartwigsen, Leona Sureth, Manuela Macedonia, Katja M. Mayer, and Katharina von Kriegstein
- 8632 **Excitatory Contribution to Binocular Interactions in Human Visual Cortex Is Reduced in Strabismic Amblyopia**
Chuan Hou (侯川), Terence L. Tyson, Ismet J. Uner, Spero C. Nicholas, and Preeti Verghese

NEUROBIOLOGY OF DISEASE

- 8644 **Critical Role of Astrocyte NAD⁺ Glycohydrolase in Myelin Injury and Regeneration**
Monica R. Langley, Chan-Il Choi, Thais R. Peclat, Yong Guo, Whitney L. Simon, Hyesook Yoon, Laurel Kleppe, Claudia F. Lucchinetti, Claudia C.S. Chini, Eduardo N. Chini, and Isobel A. Scarisbrick

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