



Cover legend: The picture blends four Hadamard Microscopy maps obtained from one acute brain slice.

The leftmost band shows expression of eTsChR, a blue-shifted channelrhodopsin actuator. The middle left band shows expression of H2B-jRGECO1a, a red-shifted nuclear Calcium reporter. The middle right band shows the diversity of baseline responses to an optogenetic stimulation protocol, colored by their PCA projection. The rightmost band shows inhibition of response upon application of phenytoin, colored in the magenta-green axis with green indicating stronger inhibition. For more information, see article by Farhi et al. (pages 4889–4908).

4843 This Week in The Journal

Journal Club

- 4844 **Chronic Sleep Disruption Potentiates Locus Ceruleus Tauopathy in a Mouse Model of Alzheimer's Disease**
Jereme G. Spiers and Hsiao-Jou Cortina Chen

Research Articles

CELLULAR/MOLECULAR

- 4847 **Deletion of Neuronal GLT-1 in Mice Reveals Its Role in Synaptic Glutamate Homeostasis and Mitochondrial Function**
Laura F. McNair, Jens V. Andersen, Blanca I. Aldana, Michaela C. Hohnholt, Jakob D. Nissen, Yan Sun, Kathryn D. Fischer, Ursula Sonnewald, Nils Nyberg, Sophie C. Webster, Kush Kapur, Theresa S. Rimmel, Ilaria Barone, Hannah Hawks-Mayer, Jonathan O. Lipton, Nathaniel W. Hodgson, Takao K. Hensch, Chiye J. Aoki, Paul A. Rosenberg, and Helle S. Waagepetersen
- 4864 **TRIM46 Organizes Microtubule Fasciculation in the Axon Initial Segment**
Martin Harterink, Karin Vocking, Xingxiu Pan, Eva M. Soriano Jerez, Lotte Slenders, Amélie Fréal, Roderick P. Tas, Willine J. van de Wetering, Karina Timmer, Jasmijn Motshagen, Sam F.B. van Beuningen, Lukas C. Kapitein, Willie J.C. Geerts, Jan A. Post, and Casper C. Hoogenraad

DEVELOPMENT/PLASTICITY/REPAIR

- 4874 **Estrogen-Dependent Functional Spine Dynamics in Neocortical Pyramidal Neurons of the Mouse**
Zengyou Ye, Robert H. Cudmore, and David J. Linden

SYSTEMS/CIRCUITS

- 4889 **Wide-Area All-Optical Neurophysiology in Acute Brain Slices**
Samouil L. Farhi, Vicente J. Parot, Abhinav Grama, Masahito Yamagata, Ahmed S. Abdelfattah, Yoav Adam, Shan Lou, Jeong Jun Kim, Robert E. Campbell, David D. Cox, and Adam E. Cohen
- 4909 **NPY₂ Receptors Reduce Tonic Action Potential-Independent GABA_B Currents in the Basolateral Amygdala**
James P. Mackay, Maria Bompolaki, M. Regina DeJoseph, Sheldon D. Michaelson, Janice H. Urban, and William F. Colmers
- 4931 **Inhibitory Units: An Organizing Nidus for Feature-Selective SubNetworks in Area V1**
Ganna Palagina, Jochen F. Meyer, and Stelios M. Smirnakis

BEHAVIORAL/COGNITIVE

- 4945 **Paraventricular Thalamus Controls Behavior during Motivational Conflict**
Eun A. Choi, Philip Jean-Richard-dit-Bressel, Colin W.G. Clifford,
and Gavan P. McNally
- 4959 **Conditional Deletion of CC2D1A Reduces Hippocampal Synaptic Plasticity
and Impairs Cognitive Function through Rac1 Hyperactivation**
Cheng-Yi Yang, Ting-Hsuan Yu, Wan-Ling Wen, Pin Ling, and Kuei-Sen Hsu
- 4976 **Multifaceted Integration: Memory for Faces Is Subservied by Widespread Connections
between Visual, Memory, Auditory, and Social Networks**
Michal Ramot, Catherine Walsh, and Alex Martin
- 4986 **Dynamic Network Activation of Hypothalamic MCH Neurons in REM Sleep
and Exploratory Behavior**
Carlos Blanco-Centurion, SiWei Luo, Daniel J. Spergel, Aurelio Vidal-Ortiz,
Sorinel Oprisen, Anthony N. Van den Pol, Meng Liu, and Priyattam J. Shiromani
- 4999 **HDAC3-Mediated Repression of the *Nr4a* Family Contributes to Age-Related
Impairments in Long-Term Memory**
Janine L. Kwapis, Yasaman Alagband, Alberto J. López, Jeffrey M. Long,
Xiang Li, Guanhua Shu, Kasuni K. Bodinayake, Dina P. Matheos, Peter R. Rapp,
and Marcelo A. Wood
- 5010 **Reward Prediction Error Modulates Saccade Vigor**
Ehsan Sedaghat-Nejad, David J. Herzfeld, and Reza Shadmehr
- 5018 **White Matter Microstructure Reflects Individual Differences in Music Reward
Sensitivity**
Noelia Martínez-Molina, Ernest Mas-Herrero, Antoni Rodríguez-Fornells,
Robert J. Zatorre, and Josep Marco-Pallarés

NEUROBIOLOGY OF DISEASE

- 5028 **Intrinsic Insular-Frontal Networks Predict Future Nicotine Dependence Severity**
Li-Ming Hsu, Robin J. Keeley, Xia Liang, Julia K. Brynildsen, Hanbing Lu,
Yihong Yang, and Elliot A. Stein
- 5038 **Erratum:** The article “Reduced Microglial Activity and Enhanced Glutamate Transmission
in the Basolateral Amygdala in Early CNS Autoimmunity” by Shaona Acharjee, Megan
Verbeek, Carlos D. Gomez, Kanchan Bisht, Benjamin Lee, Lucas Benoit, Keith A. Sharkey,
Adrienne Benediktsson, Marie-Eve Tremblay, and Quentin J. Pittman, appeared on pages
9019–9033 of the October 17, 2018 issue. An erratum for this article appears on p. 5038.

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