



Cover legend: This image shows a parvalbumin-expressing inhibitory basket cell (green) in the hippocampus of an amyloid-depositing 5xFAD mouse. The cell has been morphologically reconstructed after patch clamp recording of spontaneous synaptic activity during sharp wave ripple events. Non-patched parvalbumin neurons are labeled in red. For more information, see the article by Caccavano et al. (pages 5116–5136).

4971 This Week in The Journal

Research Articles

CELLULAR/MOLECULAR

4972 Spike Activity Regulates Vesicle Filling at a Glutamatergic Synapse

Dainan Li, Yun Zhu, and Hai Huang

4981 Mechanisms Underlying Long-Term Synaptic Zinc Plasticity at Mouse Dorsal Cochlear Nucleus Glutamatergic Synapses

Nathan W. Vogler, Vincent M. Betti, Jacob M. Goldberg, and Thanos Tzounopoulos

4997 Extremely Low Forces Induce Extreme Axon Growth

Sara De Vincentiis, Alessandro Falconieri, Marco Mainardi, Valentina Cappello, Vincenzo Scribano, Ranieri Bizzarri, Barbara Storti, Luciana Dente, Mario Costa, and Vittoria Raffa

DEVELOPMENT/PLASTICITY/REPAIR

5008 Perineuronal Nets Regulate the Inhibitory Perisomatic Input onto Parvalbumin Interneurons and γ Activity in the Prefrontal Cortex

Hector Carceller, Ramon Guirado, Edna Ripolles-Campos, Vicent Teruel-Marti, and Juan Nacher

SYSTEMS/CIRCUITS

5019 Visual Information Processing in the Ventral Division of the Mouse Lateral Geniculate Nucleus of the Thalamus

Ulas M. Ciftcioglu, Vandana Suresh, Kimberly R. Ding, Friedrich T. Sommer, and Judith A. Hirsch

BEHAVIORAL/COGNITIVE

5033 Previously Reward-Associated Stimuli Capture Spatial Attention in the Absence of Changes in the Corresponding Sensory Representations as Measured with MEG

Lev Tankelevitch, Eelke Spaak, Matthew F.S. Rushworth, and Mark G. Stokes

5051 Identification of an Amygdala–Thalamic Circuit That Acts as a Central Gain Mechanism in Taste Perceptions

Maria G. Veldhuizen, Michael C. Farruggia, Xiao Gao, Yuko Nakamura, Barry G. Green, and Dana M. Small

5063 Prefrontal Cortex Representation of Learning of Punishment Probability During Reward-Motivated Actions

David S. Jacobs and Bitu Moghaddam

- 5078 **Second Guessing in Perceptual Decision-Making**
Charlotte S. McLean, Bowen Ouyang, and Jochen Ditterich
- 5090 **Behavioral and Neural Signatures of Working Memory in Childhood**
Monica D. Rosenberg, Steven A. Martinez, Kristina M. Rapuano, May I. Conley, Alexandra O. Cohen, M. Daniela Cornejo, Donald J. Hagler Jr, Wesley J. Meredith, Kevin M. Anderson, Tor D. Wager, Eric Feczko, Eric Earl, Damien A. Fair, Deanna M. Barch, Richard Watts, and B.J. Casey

NEUROBIOLOGY OF DISEASE

- 5105 **Regulatory B Cells Normalize CNS Myeloid Cell Content in a Mouse Model of Multiple Sclerosis and Promote Oligodendrogenesis and Remyelination**
Andrea Pennati, Emily A. Nylen, Ian D. Duncan, and Jacques Galipeau
- 5116 **Inhibitory Parvalbumin Basket Cell Activity is Selectively Reduced during Hippocampal Sharp Wave Ripples in a Mouse Model of Familial Alzheimer's Disease**
Adam Caccavano, P. Lorenzo Bozzelli, Patrick A. Forcelli, Daniel T.S. Pak, Jian-Young Wu, Katherine Conant, and Stefano Vicini
- 5137 **Mitigation of ALS Pathology by Neuron-Specific Inhibition of Nuclear Factor Kappa B Signaling**
Kallol Dutta, Sai Sampath Thammisetty, Hejer Boutej, Christine Bareil, and Jean-Pierre Julien
- 5155 **Erratum:** The article "Reason's Enemy Is Not Emotion: Engagement of Cognitive Control Networks Explains Biases in Gain/Loss Framing" by Rosa Li, David V. Smith, John A. Clithero, Vinod Venkatraman, R. McKell Carter, and Scott A. Huettel, appeared on pages 3588–3598 of the March 29, 2017 issue. An erratum for this article appears on page 5155.

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