



Cover legend: The image shows cultured neurons from mouse cortex labeled with the dendritic marker protein MAP-2 (red) and the protein kinase SLK (green). In neuronal cells, SLK regulates the formation of the distal dendritic tree and the stabilization of inhibitory synapses. For more information, see the article by Schoch et al. (pages 8111–8125).

Cover image: Barbara K. Robens.

8102 This Week in The Journal

Research Articles

CELLULAR/MOLECULAR

8103 Frequency-Dependent Synaptic Dynamics Differentially Tune CA1 and CA2 Pyramidal Neuron Responses to Cortical Input

Qian Sun, Eric W. Buss, Yu-Qiu Jiang, Bina Santoro, David H. Brann, Daniel A. Nicholson, and Steven A. Siegelbaum

8111 Ste20-like Kinase Is Critical for Inhibitory Synapse Maintenance and Its Deficiency Confers a Developmental Dendritopathy

Susanne Schoch, Anne Quatraccioni, Barbara K. Robens, Robert Maresch, Karen M.J. van Loo, Silvia Cases-Cunillera, Tony Kelly, Thoralf Opitz, Valeri Borger, Dirk Dietrich, Julika Pitsch, Heinz Beck, and Albert J. Becker

8126 Climbing Fiber-Mediated Spillover Transmission to Interneurons Is Regulated by EAAT4

Shreya Malhotra, Gokulakrishna Banumurthy, Reagan L. Pennock, Jada H. Vaden, Izumi Sugihara, Linda Overstreet-Wadiche, and Jacques I. Wadiche

8134 Tuberous Sclerosis Complex (TSC) Inactivation Increases Neuronal Network Activity by Enhancing Ca^{2+} Influx via L-Type Ca^{2+} Channels

Chihiro Hisatsune, Tadayuki Shimada, Akitoshi Miyamoto, Amy Lee, and Kanato Yamagata

DEVELOPMENT/PLASTICITY/REPAIR

8150 Postmitotic Prox1 Expression Controls the Final Specification of Cortical VIP Interneuron Subtypes

Tevye Jason Stachniak, Rahel Kastli, Olivia Hanley, Ali Özgür Argunsah, Elianne Grietje Theodora van der Valk, George Kanatouris, and Theofanis Karayannis

8163 Akt Regulates Sox10 Expression to Control Oligodendrocyte Differentiation via Phosphorylating FoxO1

He Wang, Mengjia Liu, Zhuoyang Ye, Cuihua Zhou, Huiru Bi, Long Wang, Chen Zhang, Hui Fu, Ying Shen, Jian-Jun Yang, Yimin Hu, and Guiquan Chen

SYSTEMS/CIRCUITS

8181 Hypothalamic Glutamate/GABA Cotransmission Modulates Hippocampal Circuits and Supports Long-Term Potentiation

Musa Iyiola Ajibola, Jei-Wei Wu, Wahab Imam Abdulmajeed, and Cheng-Chang Lien

8197 Visual Cortical Area MT Is Required for Development of the Dorsal Stream and Associated Visuomotor Behaviors

William C. Kwan, Chia-Kang Chang, Hsin-Hao Yu, Inaki C. Mundinano, Dylan M. Fox, Jihane Homman-Ludiye, and James A. Bourne

8210 Modality-Specific Modulation of Temperature Representations in the Spinal Cord after Injury

Chen Ran, Gabrielle N. A. Kamalani, and Xiaoke Chen

BEHAVIORAL/COGNITIVE

8220 Dynamic Representation of the Subjective Value of Information

Kenji Kobayashi, Sangil Lee, Alexandre L. S. Filipowicz, Kara D. McGaughey, Joseph W. Kable, and Matthew R. Nassar

8233 Implicit Neurofeedback Training of Feature-Based Attention Promotes Biased Sensory Processing during Integrative Decision-Making

Angela I. Renton, David R. Painter, and Jason B. Mattingley

8249 Dorsal Root Ganglia Macrophages Maintain Osteoarthritis Pain

Ramin Raof, Christian Martin Gil, Floris P.J.G. Lafeber, Huub de Visser, Judith Prado, Sabine Versteeg, Mirte N. Pascha, Anne L.P. Heinemans, Youri Adolfs, Jeroen Pasterkamp, John N. Wood, Simon C. Mastbergen, and Niels Eijkelkamp

NEUROBIOLOGY OF DISEASE

8262 GluN3-Containing NMDA Receptors in the Rat Nucleus Accumbens Core Contribute to Incubation of Cocaine Craving

Daniel T. Christian, Michael T. Stefanik, Linda A. Bean, Jessica A. Loweth, Amanda M. Wunsch, Jonathan R. Funke, Clark A. Briggs, Joseph Lyons, Demetria Neal, Mike Milovanovic, Gary X. D'Souza, Grace E. Stutzmann, Daniel A. Nicholson, Kuei Y. Tseng, and Marina E. Wolf

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