Three-dimensional deconvolved fluorescence image of cultured hippocampal neurons in which cellular components involved in synaptic activity, activity-dependent transcription, and synaptic plasticity are labeled. The presynaptic protein synapsin I (green) and the dendritic microtubule-associated protein MAP2 (blue) are labeled with antibodies, ribosomes (red) are labeled with NeuroTrace Nissl stain, and nuclear DNA (yellow) is labeled with Hoechst dye. Synaptic activity regulates gene transcription via activity-sensitive transcription factors, including CaRF (calcium-response factor). For more information, see the article by McDowell et al. in this issue (pages 7453–7465). Photograph by Ronan Chereau.
Spinal Matrix Metalloproteinase-9 Contributes to Physical Dependence on Morphine in Mice
Wen-Tao Liu, Yuan Han, Yue-Peng Liu, Angela A. Song, Beth Barnes, and Xue-Jun Song

Synaptic and Vesicular Coexistence of VGLUT and VGAT in Selected Excitatory and Inhibitory Synapses
Johannes-Friedrich Zander, Agnieszka Münster-Wandowski, Irene Brunk, Ingrid Phaner, Gisela Gómez-Lira, Uwe Heinemann, Rafael Gutiérrez, Gregor Laube, and Gudrun Ahnert-Hilger

Postdepolarization Potentiation of GABA$_A$ Receptors: A Novel Mechanism Regulating Tonic Conductance in Hippocampal Neurons
Christopher B. Ransom, Yuanming Wu, and George B. Richerson

Motoneuronal TASK Channels Contribute to Immobilizing Effects of Inhalational General Anesthetics
Roman M. Lazarenko, Sarah C. Willcox, Shaofang Shu, Allison P. Berg, Vesna Jevtovic-Todorovic, Edmund M. Talley, Xiangdong Chen, and Douglas A. Bayliss

Isolation of Somatic Na$^+$ Currents by Selective Inactivation of Axonal Channels with a Voltage Prepulse
Lorin S. Milescu, Bruce P. Bean, and Jeffrey C. Smith

Reduced Cortical BDNF Expression and Aberrant Memory in Carf Knock-Out Mice
Kelli A. McDowell, Ashley N. Hutchinson, Sarah J.E. Wong-Goodrich, Matthew M. Presby, Dan Su, Ramona M. Rodriguez, Krystal C. Law, Christina L. Williams, William C. Wetsel, and Anne E. West

Early Stress Is Associated with Alterations in the Orbitofrontal Cortex: A Tensor-Based Morphometry Investigation of Brain Structure and Behavioral Risk
Jamie L. Hanson, Moo K. Chung, Brian B. Avants, Elizabeth A. Shirtcliff, James C. Gee, Richard J. Davidson, and Seth D. Pollak

Selective Changes in Thin Spine Density and Morphology in Monkey Prefrontal Cortex Correlate with Aging-Related Cognitive Impairment
Dani Dumitriu, Jiandong Hao, Yoko Hara, Jeffrey Kaufmann, William G. M. Janssen, Wendy Lou, Peter R. Rapp, and John H. Morrison

Identifying Neuronal Lineages of Drosophila by Sequence Analysis of Axon Tracts
Albert Cardona, Stephan Saaßfeld, Ignacio Arganda, Wayne Pereanu, Johannes Schindelin, and Volker Hartenstein

The DREAM Protein Negatively Regulates the NMDA Receptor through Interaction with the NR1 Subunit
Ying Zhang, Ping Su, Ping Liang, Tao Liu, Xu Liu, Xin-Ying Liu, Bo Zhang, Tao Han, Yan-Bing Zhu, Dong-Min Yin, Junfa Li, Zhuan Zhou, Ke-Wei Wang, and Yun Wang
7598 Synaptic Correlates of Increased Cognitive Vulnerability with Aging: Peripheral Immune Challenge and Aging Interact to Disrupt Theta-Burst Late-Phase Long-Term Potentiation in Hippocampal Area CA1
Timothy R. Chapman, Ruth M. Barrientos, Jared T. Ahrends, Steven F. Maier, and Susan L. Patterson

7722 MicroRNA-Deficient Schwann Cells Display Congenital Hypomyelination
Beth Yun, Angela Anderegg, Daniela Menichella, Lawrence Wrabetz, M. Laura Feltri, and Rajeshwar Awatramani

BEHAVIORAL/SYSTEMS/COGNITIVE

7473 Distinct Signals Conveyed by Pheromone Concentrations to the Mouse Vomeronasal Organ
Jie He, Limei Ma, Sangseong Kim, Joel Schwartz, Michael Santilli, Christopher Wood, Michael H. Durnin, and C. Ron Yu

7516 Ciliary Neurotrophic Factor Cell-Based Delivery Prevents Synaptic Impairment and Improves Memory in Mouse Models of Alzheimer’s Disease

7528 Spinal Cord Injury Immediately Changes the State of the Brain
Juan Aguilar, Desiré Humanses-Valera, Elena Alonso-Calviño, Josué G. Yague, Karen A. Moxon, Antonio Oliviero, and Guglielmo Foffani

7587 Onset Coding Is Degraded in Auditory Nerve Fibers from Mutant Mice Lacking Synaptic Ribbons
Bradley N. Buran, Nicola Strenzke, Andreas Neef, Eckart D. Gundelfinger, Tobias Moser, and M. Charles Liberman

7604 Cortical Representation of Natural Complex Sounds: Effects of Acoustic Features and Auditory Object Category
Amber M. Leaver and Josef P. Rauschecker

7624 Interhemispheric Regulation of the Medial Prefrontal Cortical Glutamate Stress Response in Rats
Derek Lupinsky, Luc Moquin, and Alain Gratton

7646 Chinese–English Bilinguals Reading English Hear Chinese
Yan Jing Wu and Guillaume Thierry

7652 Extracellular Signal-Regulated Kinase-2 within the Ventral Tegmental Area Regulates Responses to Stress
Sergio D. Iníguez, Vincent Vialou, Brandon L. Warren, Jun-Li Cao, Lyonna F. Alcantara, Lindsey C. Davis, Zarko Manojlovic, Rachael L. Neve, Scott J. Russo, Ming-Hu Han, Eric J. Nestler, and Carlos A. Bolaños-Guzmán

7664 Development of the Selection and Manipulation of Self-Generated Thoughts in Adolescence
Iroise Dumonthell, Bano Hassan, Sam J. Gilbert, and Sarah-Jayne Blakemore

7705 Neurons in the Rat Anterior Cingulate Cortex Dynamically Encode Cost–Benefit in a Spatial Decision-Making Task
Kristin L. Hillman and David K. Bilkey

7714 Visual–Haptic Adaptation Is Determined by Relative Reliability
Johannes Burge, Ahna R. Girshick, and Martin S. Banks
NEUROBIOLOGY OF DISEASE

7484  Epileptogenesis Provoked by Prolonged Experimental Febrile Seizures: Mechanisms and Biomarkers
Céline M. Dubé, Teresa Ravizza, Mark Hamamura, Qin Qin Zha, Andrew Keebaugh, Kimberly Fok, Adrienne L. Andres, Orhan Nalcioglu, Andre Obenaus, Annamaria Vezzani, and Tallie Z. Baram

7729  TDP-43 Mediates Degeneration in a Novel Drosophila Model of Disease Caused by Mutations in VCP/p97

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