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Cover legend: Fluorescence image of cultured hippocampal neurons grown in a microfluidic device. The image depicts the elaborate dendritic arbor of an individual neuron (MAP2), which formed after traversing a 150 μ m microgroove. The punctate synapsin immunostaining shows that this dendrite is decorated with presynaptic terminals from axons that also traversed the microgroove. For more information see the article by Swanger et al. (pages 8898 – 8908).

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Journal Club

8587 Induced Pluripotent Stem Cells and Motor Neuron Disease: Toward an Era of Individualized Medicine

Christopher R. Cashman and Lorenzo Lazzerini Ospri

Brief Communications

- 8820 Most Vesicles in a Central Nerve Terminal Participate in Recycling
 Lei Xue, Jiansong Sheng, Xin-Sheng Wu, Wei Wu, Fujun Luo, Wonchul Shin,
 Hsueh-Cheng Chiang, and Ling-Gang Wu
- 8861 EPAC Inhibition of SUR1 Receptor Increases Glutamate Release
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 Nicolas Bazan, Ling-Qiang Zhu, Qing Tian, and Youming Lu
- Ligand for Translocator Protein Reverses Pathology in a Mouse Model of Alzheimer's Disease
 Anna M. Barron, Luis M. Garcia-Segura, Donatella Caruso, Anusha Jayaraman, Joo-Won Lee, Roberto C. Melcangi, and Christian J. Pike

Articles

CELLULAR/MOLECULAR

- Specific Acetylation of p53 by HDAC Inhibition Prevents DNA Damage-Induced Apoptosis in Neurons
 Camille Brochier, Gretel Dennis, Mark A. Rivieccio, Kathryn McLaughlin,
 Giovanni Coppola, Rajiv R. Ratan, and Brett Langley
- 8794 FACS Array Profiling Identifies Ecto-5' Nucleotidase as a Striatopallidal Neuron-Specific Gene Involved in Striatal-Dependent Learning Sabrina L. Ena, Jean-François De Backer, Serge N. Schiffmann, and Alban de Kerchove d'Exaerde
- 8898 Dendritic GluN2A Synthesis Mediates Activity-Induced NMDA Receptor Insertion Sharon A. Swanger, Yuncen A. He, Joel D. Richter, and Gary J. Bassell

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- 8596 Shh/Boc Signaling Is Required for Sustained Generation of Ipsilateral Projecting Ganglion Cells in the Mouse Retina
 Luisa Sánchez-Arrones, Francisco Nieto-Lopez, Cristina Sánchez-Camacho,
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- 8810 Synaptic and Intrinsic Homeostatic Mechanisms Cooperate to Increase L2/3
 Pyramidal Neuron Excitability during a Late Phase of Critical Period Plasticity
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SYSTEMS/CIRCUITS

- 8640 Genetic Reconstruction of Dopamine D1 Receptor Signaling in the Nucleus Accumbens Facilitates Natural and Drug Reward Responses Bryan B. Gore and Larry S. Zweifel
- Novelty and Anxiolytic Drugs Dissociate Two Components of Hippocampal Theta in Behaving Rats
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- 8716 State-Dependent Contribution of the Hyperpolarization-Activated Na⁺/K⁺ and Persistent Na⁺ Currents to Respiratory Rhythmogenesis *In Vivo*Gaspard Montandon and Richard L. Horner
- 8866 Dopaminergic Control of Motivation and Reinforcement Learning: A Closed-Circuit Account for Reward-Oriented Behavior
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- 8909 The Synchronous Activity of Lateral Habenular Neurons Is Essential for Regulating
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- 8590 Neural Context Reinstatement Predicts Memory Misattribution Samuel J. Gershman, Anna C. Schapiro, Almut Hupbach, and Kenneth A. Norman
- 8633 Hearing Silences: Human Auditory Processing Relies on Preactivation of Sound-Specific Brain Activity Patterns
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- 8668 Brain Characteristics of Individuals Resisting Age-Related Cognitive Decline over
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- 8678 Suppression of Serotonin Neuron Firing Increases Aggression in Mice Enrica Audero, Boris Mlinar, Gilda Baccini, Zhiva K. Skachokova, Renato Corradetti, and Cornelius Gross
- 8689 Evidence for Encoding versus Retrieval Scheduling in the Hippocampus by Theta Phase and Acetylcholine Vincent Douchamps, Ali Jeewajee, Pam Blundell, Neil Burgess, and Colin Lever
- 8705 Strengthened Effective Connectivity Underlies Transfer of Working Memory Training to Tests of Short-Term Memory and Attention
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- 8729 Stimulus Value Signals in Ventromedial PFC Reflect the Integration of Attribute Value Signals Computed in Fusiform Gyrus and Posterior Superior Temporal Gyrus Seung-Lark Lim, John P. O'Doherty, and Antonio Rangel
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8772 The Ventral Midline Thalamus Contributes to Strategy Shifting in a Memory Task Requiring Both Prefrontal Cortical and Hippocampal Functions

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8827 Paraventricular Hypothalamic Regulation of Trigeminovascular Mechanisms Involved in Headaches

Claude Robert, Laurence Bourgeais, Charles-Daniel Arreto, Miguel Condes-Lara, Rodrigo Noseda, Thérèse Jay, and Luis Villanueva

Retraction: The article "Motivated Cognitive Control: Reward Incentives Modulate Preparatory Neural Activity during Task-Switching" by Adam C. Savine and Todd S. Braver appeared on pages 10294–10305 of the August 4, 2010 issue. A retraction for that article appears on page 8922.

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