Cover legend: The rostromedial prefrontal cortex in rabbits potently inhibits acquired eyelid responses until the need for the acquired response is fully confirmed. In this regard, the rostromedial prefrontal cortex seems to act as flip-flop mechanism controlling the expression of reflex and acquired behaviors depending on the environmental circumstances. Photography by J.A. Santos and J.C. López-Ramos; editing by R. Leal-Campanario. For more information, see the article by Leal-Campanario in this issue (pages 4378 – 4386).

This Week in The Journal

Journal Club

4213 Where Is the Anterior Temporal Lobe and What Does It Do?
Michael F. Bonner and Amy R. Price

Brief Communications

4234 Inhibition of a SNARE-Sensitive Pathway in Astrocytes Attenuates Damage following Stroke
Dustin J. Hines and Philip G. Haydon

4482 The Mental Cost of Cognitive Enhancement
Teresa Iuculano and Roi Cohen Kadosh

4536 Effect of Limb Lengthening on Internodal Length and Conduction Velocity of Peripheral Nerve

Articles

CELLULAR/MOLECULAR

4265 Serotonin Facilitates Peripheral Pain Sensitivity in a Manner That Depends on the Nonproton Ligand Sensing Domain of ASIC3 Channel
Xiang Wang, Wei-Guang Li, Ye Yu, Xian Xiao, Jin Cheng, Wei-Zheng Zeng, Zhong Peng, Michael Xi Zhu, and Tian-Le Xu

4308 Membrane Trafficking of NADPH Oxidase p47phox in Paraventricular Hypothalamic Neurons Parallels Local Free Radical Production in Angiotensin II Slow-Pressor Hypertension
Christal G. Coleman, Gang Wang, Giuseppe Faraco, Jose Marques Lopes, Elizabeth M. Waters, Teresa A. Milner, Costantino Iadecola, and Virginia M. Pickel

4317 Calpain-2-Mediated PTEN Degradation Contributes to BDNF-Induced Stimulation of Dendritic Protein Synthesis
Victor Briz, Yu-Tien Hsu, Yi Li, Erin Lee, Xiaoning Bi, and Michel Baudry
4369 Differential Control of Opioid Antinociception to Thermal Stimuli in a Knock-In Mouse Expressing Regulator of G-Protein Signaling-Insensitive Goi Protein
Jennifer T. Lamberts, Chelsea E. Smith, Ming-Hua Li, Susan L. Ingram, Richard R. Neubig, and John R. Traynor

4395 Noddy, a Mouse Harboring a Missense Mutation in Protocadherin-15, Reveals the Impact of Disrupting a Critical Interaction Site between Tip-Link Cadherins in Inner Ear Hair Cells

4405 Functional Mechanotransduction Is Required for Cisplatin-Induced Hair Cell Death in the Zebrafish Lateral Line
Andrew J. Thomas, Dale W. Hailey, Tamara M. Stawicki, Patricia Wu, Allison B. Coffin, Edwin W Rubel, David W. Raible, Julian A. Simon, and Henry C. Ou

4434 Lack of Evidence for Vesicular Glutamate Transporter Expression in Mouse Astrocytes
Dongdong Li, Karine Héralt, Katlin Silm, Alexis Evrard, Sonja Wojcik, Martin Oheim, Etienne Herzog, and Nicole Ropert

4456 Disruption of the Presynaptic Cytomatrix Protein Bassoon Degrades Ribbon Anchorage, Multiquantal Release, and Sound Encoding at the Hair Cell Afferent Synapse
Zhizi Jing, Mark A. Rutherford, Hideki Takago, Thomas Frank, Anna Fejtova, Darina Khimich, Tobias Moser, and Nicola Strenzke

4514 Stabilization of Actin Bundles by a Dynamin 1/Cortactin Ring Complex Is Necessary for Growth Cone Filopodia
Hiroshi Yamada, Tadashi Abe, Ayano Satoh, Nana Okazaki, Shota Tago, Kinue Kobayashi, Yumi Yoshida, Yoshiya Oda, Masami Watanabe, Kazuhito Tomizawa, Hideki Matsui, and Kohji Takei

4550 Precise Neural Stimulation in the Retina Using Focused Ultrasound
Michael D. Menz, Ömer Oralkan, Pierre T. Khuri-Yakub, and Stephen A. Baccus

DEVELOPMENT/PLASTICITY/REPAIR

4241 Perineurial Glia Require Notch Signaling during Motor Nerve Development but Not Regeneration
Laura A. Binari, Gwendolyn M. Lewis, and Sarah Kucenas

4349 Endocannabinoid-Dependent Long-Term Depression in a Nociceptive Synapse Requires Coordinated Presynaptic and Postsynaptic Transcription and Translation
Sharleen Yuan and Brian D. Burrell

4424 Plasticity of Hypothalamic Dopamine Neurons during Lactation Results in Dissociation of Electrical Activity and Release
Nicola Romanó, Siew H. Yip, David J. Hodson, Anne Guillou, Sébastien Parnaudeau, Siobhan Kirk, François Tronche, Xavier Bonnefont, Paul Le Tissier, Stephen J. Bunn, Dave R. Grattan, Patrice Mollard, and Agnès O. Martin
SPARC Regulates Microgliosis and Functional Recovery following Cortical Ischemia
Samantha M. Lloyd-Burton, Elisa M. York, Mohammad A. Anwar, Adele J. Vincent, and A. Jane Roskams

A Sympathetic Neuron Autonomous Role for Egr3-Mediated Gene Regulation in Dendrite Morphogenesis and Target Tissue Innervation
David H. Quach, Michelle Oliveira-Fernandes, Katherine A. Gruner, and Warren G. Tourtellotte

SYSTEMS/CIRCUITS

Spinal Efference Copy Signaling and Gaze Stabilization during Locomotion in Juvenile Xenopus Frogs
Géraldine von Uckermann, Didier Le Ray, Denis Combes, Hans Straka, and John Simmers

Adaptation to Speed in Macaque Middle Temporal and Medial Superior Temporal Areas
Nicholas S. C. Price and Richard T. Born

BEHAVIORAL/COGNITIVE

Multivoxel Patterns Reveal Functionally Differentiated Networks Underlying Auditory Feedback Processing of Speech
Zane Z. Zheng, Alejandro Vicente-Grabovetsky, Ewen N. MacDonald, Kevin G. Munhall, Rhodri Cusack, and Ingrid S. Johnsrude

The Rostral Medial Prefrontal Cortex Regulates the Expression of Conditioned Eyelid Responses in Behaving Rabbits
Rocio Leal-Campanario, Jose M. Delgado-Garcia, and Agnès Gruart

Illusory Movement of Stationary Stimuli in the Visual Periphery: Evidence for a Strong Centrifugal Prior in Motion Processing
Ruyuan Zhang, Oh-Sang Kwon, and Duje Tadin

Reward Prediction Error Signal Enhanced by Striatum–Amygdala Interaction Explains the Acceleration of Probabilistic Reward Learning by Emotion
Noriya Watanabe, Masamichi Sakagami, and Masahiko Haruno

The Critical Role of Sleep Spindles in Hippocampal-Dependent Memory: A Pharmacology Study
Sara C. Mednick, Elizabeth A. McDevitt, James K. Walsh, Erin Wamsley, Martin Paulus, Jennifer C. Kanady, and Sean P. A. Drummond

Fear Extinction Memory Consolidation Requires Potentiation of Pontine-Wave Activity during REM Sleep
Subimal Datta and Matthew W. O’Malley

A Developmental Shift from Positive to Negative Connectivity in Human Amygdala–Prefrontal Circuity
Dylan G. Gee, Kathryn L. Humphreys, Jessica Flannery, Bonnie Goff, Eva H. Telzer, Mor Shapiro, Todd A. Hare, Susan Y. Bookheimer, and Nim Tottenham
Brain Changes Associated with Postural Training in Patients with Cerebellar Degeneration: A Voxel-Based Morphometry Study
Roxana Gabriela Burciu, Nicole Fritsche, Oliver Granert, Lutz Schmitz, Nina Spönenmann, Jürgen Konczak, Nina Theysohn, Marcus Gerwig, Thilo van Eimeren, and Dagmar Timmann

Protein Phosphatase-Dependent Circadian Regulation of Intermediate-Term Associative Memory
Maximilian Michel, Jacob S. Gardner, Charity L. Green, Chelsea L. Organ, and Lisa C. Lyons

Microglia Regulate the Number of Neural Precursor Cells in the Developing Cerebral Cortex
Christopher L. Cunningham, Verónica Martínez-Cerdeño, and Stephen C. Noctor

Shift from Extracellular Signal-Regulated Kinase to AKT/cAMP Response Element-Binding Protein Pathway Increases Survival-Motor-Neuron Expression in Spinal-Muscular-Atrophy-Like Mice and Patient Cells
Julien Branchu, Olivier Biondi, Farah Chali, Thibault Collin, Felix Leroy, Kamel Mamchaoui, Joelle Makoukji, Claude Pariset, Philippe Lopes, Charbel Massaad, Christophe Chanoine, and Frédéric Charbonnier

Behavioral and Structural Responses to Chronic Cocaine Require a Feedforward Loop Involving ΔFosB and Calcium/Calmodulin-Dependent Protein Kinase II in the Nucleus Accumbens Shell
Alfred J. Robison, Vincent Vialou, Michelle Mazei-Robison, Jian Feng, Said Kourrich, Miles Collins, Sunmee Wee, George Koob, Gustavo Turecki, Rachael Neve, Mark Thomas, and Eric J. Nestler

Adenosine Transporter ENT1 Regulates the Acquisition of Goal-Directed Behavior and Ethanol Drinking through A2A Receptor in the Dorsomedial Striatum
Hyung Wook Nam, David J. Hinton, Na Young Kang, Tachyun Kim, Moonnoh R. Lee, Alfredo Oliveros, Chelsea Adams, Christina L. Ruby, and Doo-Sup Choi

Deletion of Abca7 Increases Cerebral Amyloid-β Accumulation in the J20 Mouse Model of Alzheimer’s Disease
Woojin S. Kim, Hongyun Li, Kalani Ruberu, Sharon Chan, David A. Elliott, Jac Kee Low, David Cheng, Tim Karl, and Brett Garner

Cortical–Amygdalar Circuit Dysfunction in a Genetic Mouse Model of Serotonin Deficiency
Kafui Dzirasa, Sunil Kumar, Benjamin D. Sachs, Marc G. Caron, and Miguel A. L. Nicolelis

Predominance of D2 Receptors in Mediating Dopamine’s Effects in Brain Metabolism: Effects of Alcoholism
Nora D. Volkow, Dardo Tomasi, Gene-Jack Wang, Frank Telang, Joanna S. Fowler, Jean Logan, L. Jayne Maynard, and Christopher T. Wong

Parkinson’s Disease: Increased Motor Network Activity in the Absence of Movement
Ji Hyun Ko, Hideo Mure, Chris C. Tang, Yilong Ma, Vijay Dhawan, Phoebe Spetsieris, and David Eidelberg

Correction: The article "Glutamate Receptor 1 Phosphorylation at Serine 831 and 845 Modulates Seizure Susceptibility and Hippocampal Hyperexcitability after Early Life Seizures" by Sanjay N. Rakhade, Erin F. Fitzgerald, Peter M. Klein, Chengwen Zhou, Hongyu Sun, Richard L. Hunganir, and Frances E. Jensen appeared on pages 17800–17812 of the December 5, 2012 issue. A correction for that article appears on page 4623.

Persons interested in becoming members of the Society for Neuroscience should contact the Membership Department, Society for Neuroscience, 1121 14th St., NW, Suite 1010, Washington, DC 20005, phone 202-962-4000.

Instructions for Authors are available at http://www.jneurosci.org/misc/itoa.shtml. Authors should refer to these Instructions online for recent changes that are made periodically.

Brief Communications Instructions for Authors are available via Internet (http://www.jneurosci.org/misc/ifa_bc.shtml).

Submissions should be submitted online using the following url: http://jneurosci.msubmit.net. Please contact the Central Office, via phone, fax, or e-mail with any questions. Our contact information is as follows: phone, 202-962-4000; fax, 202-962-4945; e-mail, jn@sfn.org.