Cover legend: Confocal image (63×) of an apical view of sensory epithelium excised from the mouse utricle, a vestibular organ, at embryonic day 18. The tissue was stained with phalloidin (red) to illuminate the actin-rich hair bundles and the actin belt that rings the apical surface of each cell. Antitubulin (green) labels the kinocilium. For more information, see the article by Holt et al. in the August 15, 2007 issue (pages 8940 – 8951).

This Week in The Journal

Journal Club
13919 Endogenous Inhibition and the Neural Basis of “Free Won’t”
Giovanni Mirabella

Brief Communications
Thad A. Polk, Joonkoo Park, Mason R. Smith, and Denise C. Park
13977 Inactivation of the Lateral But Not Medial Dorsal Striatum Eliminates the Excitatory Impact of Pavlovian Stimuli on Instrumental Responding
Laura H. Corbit and Patricia H. Janak
13991 The Adult Mouse Subependymal Zone Regenerates Efficiently in the Absence of Tenascin-C
Ilias Kazanis, Aisha Belhadi, Andreas Faissner, and Charles ffrench-Constant
14007 Synaptic Strength of Individual Spines Correlates with Bound Ca²⁺–Calmodulin-Dependent Kinase II
Brent Asrican, John Lisman, and Nikolai Otmakhov
14199 Gβ5 Is Required for Normal Light Responses and Morphology of Retinal ON-Bipolar Cells
Anjali Rao, Rebecca Dallman, Scott Henderson, and Ching-Kang Chen

Articles

CELLULAR/MOLECULAR
13926 Plasticity of Intrinsic Excitability during Long-Term Depression Is Mediated through mGluR-Dependent Changes in I_{h} in Hippocampal CA1 Pyramidal Neurons
Darrin H. Brager and Daniel Johnston
13949 Two Distinct Heterotypic Channels Mediate Gap Junction Coupling between Astrocyte and Oligodendrocyte Connexins
Jennifer L. Orthmann-Murphy, Mona Freidin, Esther Fischer, Steven S. Scherer, and Charles K. Abrams
14059 Multiple Sites for Generation of Ectopic Spontaneous Activity in Neurons of the Chronically Compressed Dorsal Root Ganglion
Chao Ma and Robert H. LaMotte
14069 Estradiol In Vivo Regulation of Brain Mitochondrial Proteome
Jon Nilsen, Ronald W. Irwin, Timothy K. Gallaher, and Roberta Diaz Brinton
14089 Nanoscale Organization of the MEC-4 DEG/ENaC Sensory Mechanotransduction Channel in Caenorhabditis elegans Touch Receptor Neurons
Juan G. Cueva, Atticus Mulholland, and Miriam B. Goodman
Expression and Localization of RGS9-2/Gβ5/R7BP Complex In Vivo Is Set by Dynamic Control of Its Constitutive Degradation by Cellular Cysteine Proteases

Diversity in the Neural Circuitry of Cold Sensing Revealed by Genetic Axonal Labeling of Transient Receptor Potential Melastatin 8 Neurons
Yoshio Takashima, Richard L. Daniels, Wendy Knowlton, James Teng, Emily R. Liman, and David D. McKemy

The Axon–Dendrite Targeting of Kv3 (Shaw) Channels Is Determined by a Targeting Motif That Associates with the T1 Domain and Ankyrin G
Mingxuan Xu, Ruifeng Cao, Rui Xiao, Michael X. Zhu, and Chen Gu

Differential Trafficking of AMPA and NMDA Receptors during Long-Term Potentiation in Awake Adult Animals
Joanna M. Williams, Diane Guévreumont, Sara E. Mason-Parker, Carthika Luxmanan, Warren P. Tate, and Wickliffe C. Abraham

Vigorous Motor Activity in Caenorhabditis elegans Requires Efficient Clearance of Dopamine Mediated by Synaptic Localization of the Dopamine Transporter DAT-1
Paul W. McDonald, Shannon L. Hardie, Tammy N. Jessen, Lucia Carvelli, Dawn Signor Matthies, and Randy D. Blakely

DEVELOPMENT/PLASTICITY/REPAIR

Topographic Specificity within Membranes of a Single Muscle Detected In Vitro
Srinivas Rao Chadaram, Michael B. Laskowski, and Roger D. Madison

Reciprocal Regulation of Presynaptic and Postsynaptic Proteins in Bipolar Spiral Ganglion Neurons by Neurotrophins
Jacqueline Flores-Otero, Hui Zhong Xue, and Robin L. Davis

Auditory Neurons Make Stereotyped Wiring Decisions before Maturation of Their Targets
Edmund J. Koundakjian, Jessica L. Appler, and Lisa V. Goodrich

Lim1 Is Essential for the Correct Laminar Positioning of Retinal Horizontal Cells
Ross A. Poche´, Kin Ming Kwan, Mary A. Raven, Yasuhide Furuta, Benjamin E. Reese, and Richard R. Behringer

The EphA4 Receptor Regulates Neuronal Morphology through SPAR-Mediated Inactivation of Rap GTPases
Melanie Richter, Keith K. Murai, Caroline Bourgin, Daniel T. Pak, and Elena B. Pasquale

BEHAVIORAL/SYSTEMS/COGNITIVE

Neural Substrates of Abstinence-Induced Cigarette Cravings in Chronic Smokers
Ze Wang, Myles Faith, Freda Patterson, Kathy Tang, Kia Kerrin, E. Paul Wileyto, John A. Detre, and Caryn Lerman

Effects of Saporin-Induced Lesions of Three Arousal Populations on Daily Levels of Sleep and Wake
Carlos Blanco-Centurion, Dmitry Geraschenko, and Priyattam J. Shiromani

TASK Channels Determine pH Sensitivity in Select Respiratory Neurons But Do Not Contribute to Central Respiratory Chemosensitivity

Serotonergic Neurons Activate Chemosensitive Retrotrapezoid Nucleus Neurons by a pH-Independent Mechanism
Daniel K. Mulkey, Diane L. Rosin, Gavin West, Ana C. Takakura, Thiago S. Moreira, Douglas A. Bayliss, and Patrice G. Guyenet
Repeated Electrical Stimulation of Reward-Related Brain Regions Affects Cocaine But Not “Natural” Reinforcement

Dino Levy, Maytal Shabat-Simon, Uri Shalev, Noam Barnea-Ygael, Ayelet Cooper, and Abraham Zangen

The Impact of Catechol-O-Methyltransferase and Dopamine D4 Receptor Genotypes on Neurophysiological Markers of Performance Monitoring

Ulrike M. Krämer, Toni Cuinillera, Estela Câmara, Josep Marco-Pallarés, David Cucurell, Wido Nager, Peter Bauer, Rebecca Schüle, Ludger Schöls, Antoni Rodríguez-Fornells, and Thomas F. Münte

Decreased Nociceptive Sensitization in Mice Lacking the Fragile X Mental Retardation Protein: Role of mGluR1/5 and mTOR

Theodore J. Price, Harunor Rashid, Magali Millecamps, Raul Sanoja, Jose M. Entrena, and Fernando Cervero

Repeated N-Acetylcysteine Administration Alters Plasticity-Dependent Effects of Cocaine

Aric Madayag, Doug Lobner, Kristen S. Kau, John R. Mantsch, Omer Abdulhameed, Matthew Hearing, Mark D. Grier, and David A. Baker

The G59S Mutation in p150glued Causes Dysfunction of Dynactin in Mice

Chen Lai, Xuan Lin, Jayanth Chandran, Hoon Shim, Wan-Jou Yang, and Huaibin Cai

Inducible Alterations of Glutathione Levels in Adult Dopaminergic Midbrain Neurons Result in Nigrostriatal Degeneration

Shankar J. Chinta, M. J. Kumar, Michael Hsu, Subramanian Rajagopalan, Deeptinder Kaur, Anand Rane, David G. Nicholls, Jinah Choi, and Julie K. Andersen

Disrupted Dentate Granule Cell Chloride Regulation Enhances Synaptic Excitability during Development of Temporal Lobe Epilepsy

Hemal R. Pathak, Florian Weissinger, Milho Terunuma, Gregory C. Carlson, Fu-Chun Hsu, Stephen J. Moss, and Douglas A. Coulter

GABA<sub>A</sub> Receptor γ2 Subunit Mutations Linked to Human Epileptic Syndromes Differentially Affect Phasic and Tonic Inhibition

Emmanuel Eugene, Christel Depienne, Stephanie Baulac, Michel Baulac, Jean Marc Fritschy, Eric Le Guern, Richard Miles, and Jean Christophe Poncer

Differential Effects of Recombinant Adeno-Associated Virus-Mediated Neuropeptide Y Overexpression in the Hypothalamic Paraventricular Nucleus and Lateral Hypothalamus on Feeding Behavior

Birgitte Tiesjema, Roger A. H. Adan, Mieneke C. M. Luijendijk, Andries Kalsbeek, and Susanne E. la Fleur

Erratum: In the article “The Medial Prefrontal Cortex Is Involved in Spatial Memory Retrieval under Partial-Cue Conditions” by Yong Sang Jo, Eun Hye Park, Il Hwan Kim, Soon Kwon Park, Hyun Kim, Hyun Taek Kim, and June-Seek Choi, which appeared on pages 13567–13578 of the December 5, 2007 issue, Figure 2C was a duplicate of B. The correct Figure 2 is printed in this issue.

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://sfn.manuscriptcentral.com. 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.