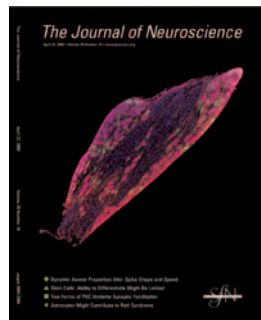


The Journal of Neuroscience

April 22, 2009 • Volume 29 Number 16 • www.jneurosci.org



Cover legend: Slack K_{Na} channels are ubiquitously expressed in adult rat dorsal root ganglion (DRG) neurons. Multiple low-magnification, single confocal images were superimposed and compiled into a single image representing an entire rat DRG neuron.

Immunolabeling was performed using anti-Slack (red), anti-calcitonin gene-related peptide (green), and anti-neurofilament (blue) antibodies. For more information, see the article by Tamsett et al. in this issue (pages 5127–5134).

i This Week in The Journal

Journal Club

- 5045 **Converging Evidence for the Nogo-66 Receptor Gene in Schizophrenia**
Aristotle N. Voineskos
- 5048 **The Primate Retina Contains Distinct Types of Y-Like Ganglion Cells**
Ari Rosenberg and Vargha Talebi

Brief Communications

- 5202 **Polarity-Sensitive Modulation of Cortical Neurotransmitters by Transcranial Stimulation**
Charlotte J. Stagg, Jonathan G. Best, Mary C. Stephenson, Jacinta O'Shea, Marzena Wylezinska, Z. Tamas Kincses, Peter G. Morris, Paul M. Matthews, and Heidi Johansen-Berg
- 5234 **Expertise with Artificial Nonspeech Sounds Recruits Speech-Sensitive Cortical Regions**
Robert Leech, Lori L. Holt, Joseph T. Devlin, and Frederic Dick
- 5260 **Neuroprotection by the NR3A Subunit of the NMDA Receptor**
Nobuki Nakanishi, Shichun Tu, Yeonsook Shin, Jiankun Cui, Toru Kurokawa, Dongxian Zhang, H.-S. Vincent Chen, Gary Tong, and Stuart A. Lipton

Articles

CELLULAR/MOLECULAR

- 5062 **Complex Intrinsic Membrane Properties and Dopamine Shape Spiking Activity in a Motor Axon**
Aleksander W. Ballo and Dirk Bucher
- 5116 **Dopamine Modulation of GABA Tonic Conductance in Striatal Output Neurons**
Megan J. Janssen, Kristen K. Ade, Zhanyan Fu, and Stefano Vicini
- 5127 **NAD^+ Activates K_{Na} Channels in Dorsal Root Ganglion Neurons**
Thomas J. Tamsett, Kelly E. Picchione, and Arin Bhattacharjee
- 5193 **Cerebellar Neurons Possess a Vesicular Compartment Structurally and Functionally Similar to Glut4-Storage Vesicles from Peripheral Insulin-Sensitive Tissues**
Kyriaki Bakirtzi, Gabriel Belfort, Ignacio Lopez-Coviella, Darshini Kuruppu, Lei Cao, E. Dale Abel, Anna-Liisa Brownell, and Konstantin V. Kandror
- 5207 ***Caenorhabditis elegans* Innexins Regulate Active Zone Differentiation**
Edward Yeh, Taizo Kawano, Sharon Ng, Richard Fetter, Wesley Hung, Ying Wang, and Mei Zhen

5276 **Gap Junctions between Striatal Fast-Spiking Interneurons Regulate Spiking Activity and Synchronization as a Function of Cortical Activity**
Johannes Hjorth, Kim T. Blackwell, and Jeanette Hellgren Kotaleski

5343 **Staircase Currents in Motoneurons: Insight into the Spatial Arrangement of Calcium Channels in the Dendritic Tree**
Kevin P. Carlin, Tuan V. Bui, Yue Dai, and Robert M. Brownstone

DEVELOPMENT/PLASTICITY/REPAIR

5075 **Brain Injury Does Not Alter the Intrinsic Differentiation Potential of Adult Neuroblasts**
Fang Liu, Yan You, Xiaosu Li, Tong Ma, Yanzhen Nie, Bin Wei, Tiejun Li, Huanbing Lin, and Zhengang Yang

5170 **Ventral Mesencephalon-Enriched Genes That Regulate the Development of Dopaminergic Neurons *In Vivo***
Min Yin, Shuxi Liu, Yanqing Yin, Sen Li, Zhihua Li, Xuefei Wu, Bo Zhang, Siew-Lan Ang, Yuqiang Ding, and Jiawei Zhou

5183 **A Novel Function for p53: Regulation of Growth Cone Motility through Interaction with Rho Kinase**
Qingyu Qin, Michel Baudry, Guanghong Liao, Albert Noniyev, James Galeano, and Xiaoning Bi

BEHAVIORAL/SYSTEMS/COGNITIVE

5088 **Organization of Intralaminar and Translaminar Neuronal Connectivity in the Superficial Spinal Dorsal Horn**
Go Kato, Yasuhiko Kawasaki, Kohei Koga, Daisuke Uta, Masafumi Kosugi, Toshiharu Yasaka, Megumu Yoshimura, Ru-Rong Ji, and Andrew M. Strassman

5100 **Role of Protein Kinase C in the Induction and Maintenance of Serotonin-Dependent Enhancement of the Glutamate Response in Isolated Siphon Motor Neurons of *Aplysia californica***
Greg Villareal, Quan Li, Diancai Cai, Ann E. Fink, Travis Lim, Joanna K. Bougie, Wayne S. Sossin, and David L. Glanzman

5108 **The Occurrence of Aging-Dependent Reticulon 3 Immunoreactive Dystrophic Neurites Decreases Cognitive Function**
Qi Shi, Xiangyou Hu, Marguerite Prior, and Riqiang Yan

5135 **Two Mechanisms for Task Switching in the Prefrontal Cortex**
Alexandre Hyafil, Christopher Summerfield, and Etienne Koechlin

5143 **Sleep Promotes the Neural Reorganization of Remote Emotional Memory**
Virginie Sterpenich, Geneviève Albouy, Annabelle Darsaud, Christina Schmidt, Gilles Vandewalle, Thien Thanh Dang Vu, Martin Desseilles, Christophe Phillips, Christian Degueldre, Evelyne Baiteau, Fabienne Collette, André Luxen, and Pierre Maquet

5163 **Selective Increase in Representations of Sounds Repeated at an Ethological Rate**
Heesoo Kim and Shaowen Bao

5218 **Phase-Resetting Curves Determine Synchronization, Phase Locking, and Clustering in Networks of Neural Oscillators**
Srisairam Achuthan and Carmen C. Canavier

- 5240 **The Ventral Premammillary Nucleus Links Fasting-Induced Changes in Leptin Levels and Coordinated Luteinizing Hormone Secretion**
Jose Donato Jr, Renata J. Silva, Luciane V. Sita, Syann Lee, Charlotte Lee, Sílvia Lacchini, Jackson C. Bittencourt, Celso R. Franci, Newton S. Canteras, and Carol F. Elias
- 5251 **Fundamental Contribution by the Basolateral Amygdala to Different Forms of Decision Making**
Sarvin Ghods-Sharifi, Jennifer R. St. Onge, and Stan B. Floresco
- 5266 **Learning Signals from the Superior Colliculus for Adaptation of Saccadic Eye Movements in the Monkey**
Yuki Kaku, Kaoru Yoshida, and Yoshiki Iwamoto
- 5287 **The Hippocampus Codes the Uncertainty of Cue–Outcome Associations: An Intracranial Electrophysiological Study in Humans**
Giovanna Vanni-Mercier, François Mauguière, Jean Isnard, and Jean-Claude Dreher
- 5295 **Identification of Candidate Genes and Gene Networks Specifically Associated with Analgesic Tolerance to Morphine**
Jenica D. Tapocik, Noah Letwin, Cheryl L. Mayo, Bryan Frank, Troung Luu, Ovokeraye Achinike, Carrie House, Russell Williams, Greg I. Elmer, and Norman H. Lee
- 5308 **Frontal Eye Field Neurons with Spatial Representations Predicted by Their Subcortical Input**
Trinity B. Crapse and Marc A. Sommer
- 5319 **Biochemical Support for the “Threshold” Theory of Creativity: A Magnetic Resonance Spectroscopy Study**
Rex E. Jung, Charles Gasparovic, Robert S. Chavez, Rane A. Flores, Shirley M. Smith, Arvind Caprihan, and Ronald A. Yeo
- 5326 **Long-Term Plasticity in Mouse Sensorimotor Circuits after Rhythmic Whisker Stimulation**
Pierre Mégevand, Edgardo Troncoso, Charles Quairiaux, Dominique Muller, Christoph M. Michel, and Jozsef Z. Kiss
- 5336 **Dorsal–Ventral Integration in the Recognition of Motion-Defined Unfamiliar Faces**
Reza Farivar, Olaf Blanke, and Avi Chaudhuri

NEUROBIOLOGY OF DISEASE

- 5051 **Rett Syndrome Astrocytes Are Abnormal and Spread MeCP2 Deficiency through Gap Junctions**
Izumi Maezawa, Susan Swanberg, Danielle Harvey, Janine M. LaSalle, and Lee-Way Jin
- 5153 **Cross-Seeding Fibrillation of Q/N-Rich Proteins Offers New Pathomechanism of Polyglutamine Diseases**
Yoshiaki Furukawa, Kumi Kaneko, Gen Matsumoto, Masaru Kurosawa, and Nobuyuki Nukina
- 5354 **Nucleus Accumbens Deep Brain Stimulation Produces Region-Specific Alterations in Local Field Potential Oscillations and Evoked Responses *In Vivo***
Clinton B. McCracken and Anthony A. Grace

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.