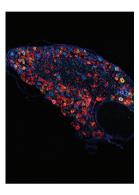


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Cover legend: This stacked confocal image shows a 10-µm thick section through a whole L4 dorsal root ganglion from a mouse. Multiple subpopulations of sensory neurons are labeled: neurofilament 200 (blue) marks myelinated neurons including touch-sensitive Abeta low-threshold mechanoreceptors, and calcitonin gene-related peptide (green) marks peptidergic nociceptors. Overlap in these populations represent myelinated A-delta nociceptors. In addition Kcna6 mRNA, which encodes the Kv1.6 potassium channel subunit is indicated by chromogenic in situ hybridization (red). Kcna6 is highly enriched in nociceptive sensory neuron populations, where Kv1.6 influences thermal and mechanical sensation in acute and neuropathic pain states. For more information see the article by Peck et al. (pages 9141-9162). Cover image: Liam J Peck.

This Week in The Journal

# **Research Articles**

#### CELLULAR/MOLECULAR

Selective Manipulation of G-Protein y<sub>7</sub> Subunit in Mice Provides New Insights into Striatal Control of Motor Behavior Gloria Brunori, Oliver B. Pelletier, Anna M. Stauffer, and Janet D. Robishaw

Metaplastic Reinforcement of Long-Term Potentiation in Hippocampal Area CA2 by **Cholinergic Receptor Activation** Amrita Benoy, Mohammad Zaki Bin Ibrahim, Thomas Behnisch, and Sreedharan Sajikumar

#### DEVELOPMENT/PLASTICITY/REPAIR

CNS Hypomyelination Disrupts Axonal Conduction and Behavior in Larval Zebrafish M. E. Madden, D. Suminaite, E. Ortiz, J. J. Early, S. Koudelka, M. R. Livesey, I. H. Bianco, M. Granato, and D. A. Lyons

Rapid and Bihemispheric Reorganization of Neuronal Activity in Premotor Cortex after Brain Injury

Ian Moreau-Debord, Éléonore Serrano, Stephan Quessy, and Numa Dancause

### SYSTEMS/CIRCUITS

Hippocampal Inputs in the Prelimbic Cortex Curb Fear after Extinction Weronika Szadzinska, Konrad Danielewski, Kacper Kondrakiewicz, Karolina Andraka, Evgeni Nikolaev, Marta Mikosz, and Ewelina Knapska

9141 Studying Independent Kcna6 Knock-out Mice Reveals Toxicity of Exogenous LacZ to Central Nociceptor Terminals and Differential Effects of Kv1.6 on Acute and **Neuropathic Pain Sensation** 

Liam J. Peck, Ryan Patel, Paula Diaz, Yolanda M. Wintle, Anthony H. Dickenson, Andrew J. Todd, Margarita Calvo, and David L. H. Bennett

9163 A Stable Population Code for Attention in Prefrontal Cortex Leads a Dynamic Attention Code in Visual Cortex

Adam C. Snyder, Byron M. Yu, and Matthew A. Smith

Sexually Dimorphic Neurosteroid Synthesis Regulates Neuronal Activity in the Murine Brain

Philipp Wartenberg, Imre Farkas, Veronika Csillag, William H. Colledge, Erik Hrabovszky, and Ulrich Boehm

## BEHAVIORAL/COGNITIVE

- 9192 Memory Specific to Temporal Features of Sound Is Formed by Cue-Selective Enhancements in Temporal Coding Enabled by Inhibition of an Epigenetic Regulator Elena K. Rotondo and Kasia M. Bieszczad
- 9210 Multivariate Analysis of Electrophysiological Signals Reveals the Time Course of Precision Grasps Programs: Evidence for Nonhierarchical Evolution of Grasp Control Lin Lawrence Guo, Yazan Shamli Oghli, Adam Frost, and Matthias Niemeier
- 9223 The Roles of Basolateral Amygdala Parvalbumin Neurons in Fear Learning Joanna Oi-Yue Yau, Chanchanok Chaichim, John M. Power, and Gavan P. McNally

## NEUROBIOLOGY OF DISEASE

9235 Loss of Christianson Syndrome Na<sup>+</sup>/H<sup>+</sup> Exchanger 6 (NHE6) Causes Abnormal Endosome Maturation and Trafficking Underlying Lysosome Dysfunction in Neurons

Matthew F. Pescosolido, Qing Ouyang, Judy S. Liu, and Eric M. Morrow

9257 Somatostatin-Positive Interneurons Contribute to Seizures in SCN8A Epileptic Encephalopathy

Eric R. Wengert, Raquel M. Miralles, Kyle C. A. Wedgwood, Pravin K. Wagley, Samantha M. Strohm, Payal S. Panchal, Abrar Majidi Idrissi, Ian C. Wenker, Jeremy A. Thompson, Ronald P. Gaykema, and Manoj K. Patel

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