



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 A-beta 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.

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Research Articles

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- 9065 Selective Manipulation of G-Protein γ_7 Subunit in Mice Provides New Insights into Striatal Control of Motor Behavior**
Gloria Brunori, Oliver B. Pelletier, Anna M. Stauffer, and Janet D. Robishaw
- 9082 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

- 9099 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
- 9112 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

- 9129 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
- 9177 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

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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⁺/H⁺ 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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