



Cover legend: This image shows the expression of the potassium, chloride co-transporter KCC2 (red), the peptide CGRP (blue), the non-peptidergic neuronal marker IB4 (green), and the neuronal marker NeuN (white) in the spinal dorsal horn of a female mouse. CGRP promotes pain phenotypes in female, but not male mice, through a mechanism that involves elevation of the GABA reversal potential but not quantifiable changes in the expression level of KCC2 at the neuronal plasma membrane. For more information, see the article by Paige et al. (pages 1930–1944). Cover image: Melina Papalampropoulou-Tsiridou using protocol developed by Louis-Etienne Lorenzo in the laboratory of Yves De Koninck.

1882 This Week in The Journal

Journal Club

- 1883 The Hippocampus May Support Context Retrieval in One-Shot Learning about Pain**
Georgia Turner and Jakub Onysk
- 1886 Neural Mechanisms of Visual Field Recovery after Perceptual Training in Cortical Blindness**
Qing He and Shuoqiu Gan

Review

- 1888 Neuroimmunometabolism: A New Pathological Nexus Underlying Neurodegenerative Disorders**
Swarup Mitra, Avijit Banik, Sumit Saurabh, Malabika Maulik, and Shailesh N. Khatri

Research Articles

CELLULAR/MOLECULAR

- 1908 Endothelial Sphingosine-1-Phosphate Receptor 4 Regulates Blood-Brain Barrier Permeability and Promotes a Homeostatic Endothelial Phenotype**
Lena Hansen, Niklas Lohfink, Rajkumar Vutukuri, Roxane-Isabelle Kestner, Sandra Trautmann, Max Hecht, Pia Viktoria Wagner, Daniel Spitzer, Maryam Ibrahim Khel, Jadranka Macas, Nerea Ferreirós, Robert Gurke, Stefan Günther, Waltraud Pfeilschifter, and Kavi Devraj
- 1930 A Female-Specific Role for Calcitonin Gene-Related Peptide (CGRP) in Rodent Pain Models**
Candler Paige, Isabel Plasencia-Fernandez, Moeno Kume, Melina Papalampropoulou-Tsiridou, Louis-Etienne Lorenzo, Eric T. David, Lucy He, Galo L. Mejia, Christopher Driskill, Francesco Ferrini, Andrew L. Feldhaus, Leon F. Garcia-Martinez, Armen N. Akopian, Yves De Koninck, Gregory Dussor, and Theodore J. Price

DEVELOPMENT/PLASTICITY/REPAIR

- 1945 PTEN Regulates Dendritic Arborization by Decreasing Microtubule Polymerization Rate**
Stephanie A. Getz, Kamran Tariq, Dylan H. Marchand, Conor R. Dickson, James R. Howe VI, Patrick D. Skelton, Wei Wang, Meijie Li, Jeremy M. Barry, Jennifer Hong, and Bryan W. Luikart

SYSTEMS/CIRCUITS

- 1958 **Excitatory and Inhibitory Neurons of the Spinal Cord Superficial Dorsal Horn Diverge in Their Somatosensory Responses and Plasticity *in Vivo***
Steve J. Sullivan and Andrei D. Sdrulla
- 1974 **Performance-Dependent Consolidation of Learned Vocal Changes in Adult Songbirds**
Ryosuke O. Tachibana, Dahyun Lee, Kazuki Kai, and Satoshi Kojima
- 1987 **Median Raphe Nonserotonergic Neurons Modulate Hippocampal Theta Oscillations**
Wenqiang Huang, Satoshi Ikemoto, and Dong V. Wang
- 1999 **Brief Stimuli Cast a Persistent Long-Term Trace in Visual Cortex**
Matthias Fritsche, Samuel G. Solomon, and Floris P. de Lange

BEHAVIORAL/COGNITIVE

- 2011 **A Conditioned Place Preference for Heroin Is Signaled by Increased Dopamine and Direct Pathway Activity and Decreased Indirect Pathway Activity in the Nucleus Accumbens**
Timothy J. O'Neal, Mollie X. Bernstein, Derek J. MacDougall, and Susan M. Ferguson
- 2025 **Selective Interruption of Auditory Interhemispheric Cross Talk Impairs Discrimination Learning of Frequency-Modulated Tone Direction But Not Gap Detection and Discrimination**
Katja Saldeitis, Marcus Jeschke, Annika Michalek, Julia U. Henschke, Wolfram Wetzel, Frank W. Ohl, and Eike Budinger
- 2039 **Opposing Roles of the Dorsolateral and Dorsomedial Striatum in the Acquisition of Skilled Action Sequencing in Rats**
Karly M. Turner, Anna Svegborn, Mia Langguth, Colin McKenzie, and Trevor W. Robbins
- 2052 **Frequency Shapes the Quality of Tactile Percepts Evoked through Electrical Stimulation of the Nerves**
Emily L. Graczyk, Breanne P. Christie, Qinpu He, Dustin J. Tyler, and Sliman J. Bensmaia

NEUROBIOLOGY OF DISEASE

- 2065 **Hemin-Induced Death Models Hemorrhagic Stroke and Is a Variant of Classical Neuronal Ferroptosis**
Marietta Zille, Juan A. Oses-Prieto, Sara R. Savage, Saravanan S. Karuppagounder, Yingxin Chen, Amit Kumar, John H. Morris, Karl A. Scheidt, Alma L. Burlingame, and Rajiv R. Ratan
- 2080 **Dysregulation of the Basal Ganglia Indirect Pathway in Early Symptomatic *Q175* Huntington's Disease Mice**
Joshua W. Callahan, David L. Wokosin, and Mark D. Bevan
- 2103 **Mechanisms and Consequences of Cerebellar Purkinje Cell Disinhibition in a Mouse Model of Duchenne Muscular Dystrophy**
Wan-Chen Wu, Samuel P. Bradley, Jason M. Christie, and Jason R. Pugh
- 2116 **Pathogenic Mechanisms of Cytosolic and Membrane-Enriched α -Synuclein Converge on Fatty Acid Homeostasis**
Arati Tripathi, Heba Alnakhala, Elizabeth Terry-Kantor, Andrew Newman, Lei Liu, Thibaut Imberdis, Saranna Fanning, Silke Nuber, Nagendran Ramalingam, Dennis Selkoe, and Ulf Dettmer

2131 **Medial Temporal Lobe Networks in Alzheimer's Disease: Structural and Molecular Vulnerabilities**

Robin de Flores, Sandhitsu R. Das, Long Xie, Laura E. M. Wisse, Xueying Lyu, Preya Shah, Paul A. Yushkevich, and David A. Wolk

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