



Cover legend: This image shows a postnatal day 1 mouse cerebellum. Granule cell precursors and Purkinje cell layers are labeled with Pax6 (green) and Calbindin (red), respectively. Proliferation of cerebellar granule cell precursors is regulated by Rab23 through multidimensional actions on the Hedgehog signalling pathway: Rab23 represses the basal level of Shh signaling while facilitating activation of primary cilium-dependent extrinsic Sonic Hedgehog signaling. For more information, see the article by Hor et al. (pages 6850–6863) in this issue.
Cover image: Catherine H. H. Hor.

6795 This Week in The Journal

Research Articles

CELLULAR/MOLECULAR

- 6796 Loss of miR-183/96 Alters Synaptic Strength via Presynaptic and Postsynaptic Mechanisms at a Central Synapse**
Constanze Krohs, Christoph Körber, Lena Ebbers, Faiza Altaf, Giulia Hollje, Simone Hoppe, Yvette Dörflinger, Haydn M. Prosser, and Hans Gerd Nothwang
- 6812 Synaptic Contributions to Cochlear Outer Hair Cell Ca²⁺ Dynamics**
Marcelo J. Moglie, Diego L. Wengier, A. Belén Elgoyhen, and Juan D. Goutman

DEVELOPMENT/PLASTICITY/REPAIR

- 6822 An Early Cortical Progenitor-Specific Mechanism Regulates Thalamocortical Innervation**
Suranjana Pal, Deepanjali Dwivedi, Tuli Pramanik, Geeta Godbole, Takuji Iwasato, Denis Jabaudon, Upinder S. Bhalla, and Shubha Tole
- 6836 The Role of Smad2 in Adult Neuroplasticity as Seen through Hippocampal-Dependent Spatial Learning/Memory and Neurogenesis**
Simona Gradari, Antonio Herrera, Patricia Tezanos, Ángela Fontán-Lozano, Sebastián Pons, and José Luis Trejo
- 6850 Multifaceted Functions of Rab23 on Primary Cilium-Mediated and Hedgehog Signaling-Mediated Cerebellar Granule Cell Proliferation**
C.H.H. Hor, J.C.W. Lo, A.L.S. Cham, W.Y. Leong, and E.L.K. Goh

SYSTEMS/CIRCUITS

- 6864 Dynamics of Neural Microstates in the VTA–Striatal–Prefrontal Loop during Novelty Exploration in the Rat**
Ashutosh Mishra, Nader Marzban, Michael X Cohen, and Bernhard Englitz
- 6878 Synergistic Organization of Neural Inputs from Spinal Motor Neurons to Extrinsic and Intrinsic Hand Muscles**
Simone Tanzarella, Silvia Muceli, Marco Santello, and Dario Farina
- 6892 Causal Inference Gates Corticostriatal Learning**
Hayley M. Dorfman, Momchil S. Tomov, Bernice Cheung, Dennis Clarke, Samuel J. Gershman, and Brent L. Hughes
- 6905 Sensory Coding of Limb Kinematics in Motor Cortex across a Key Developmental Transition**
Ryan M. Glanz, James C. Dooley, Greta Sokoloff, and Mark S. Blumberg

BEHAVIORAL/COGNITIVE

- 6919 Predictive Neural Computations Support Spoken Word Recognition: Evidence from MEG and Competitor Priming**
Yingcan Carol Wang, Ediz Sohoglu, Rebecca A. Gilbert, Richard N. Henson, and Matthew H. Davis
- 6933 Spatial Representations in Rat Orbitofrontal Cortex**
Andrew M. Wikenheiser, Matthew P.H. Gardner, Lauren E. Mueller, and Geoffrey Schoenbaum
- 6946 Chronic Augmentation of Endocannabinoid Levels Persistently Increases Dopaminergic Encoding of Reward Cost and Motivation**
Dan P. Covey, Edith Hernandez, Miguel Á. Luján, and Joseph F. Cheer

NEUROBIOLOGY OF DISEASE

- 6954 Hippocampal Sequencing Mechanisms Are Disrupted in a Maternal Immune Activation Model of Schizophrenia Risk**
Lucinda J. Speers, Kirsten R. Cheyne, Elena Cavani, Tara Hayward, Robert Schmidt, and David K. Bilkey
- 6966 Erratum:** The article “Loss of TREM2 Confers Resilience to Synaptic and Cognitive Impairment in Aged Mice” by Wenhui Qu and Ling Li, appeared on pages 9552–9563 of the December 9, 2020 issue. An erratum for this article appears on page 6966.
- 6967 Expression of Concern:** The article, “TGF β Signaling Regulates the Timing of CNS Myelination by Modulating Oligodendrocyte Progenitor Cell Cycle Exit through SMAD3/4/FoxO1/Sp1” by Javier Palazuelos, Michael Klingener, and Adan Aguirre, appeared on pages 7917–7930 of the June 4, 2014 issue. An expression of concern for this article appears on page 6967.

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