



Cover legend: This picture shows Purkinje cells (green), proliferating cells (cyan), and cell nuclei (purple) in a postnatal day 7 mouse cerebellum. The p75 neurotrophin receptor promotes cell-cycle exit by proliferating cerebellar granule cell precursors. Loss of this receptor prolongs granule cell precursor proliferation, resulting in increased glutamatergic input to Purkinje cells and deficits cerebellum-dependent learning. For more information, see the article by Zanin et al. (pages 9119–9129).

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TechSights

- 9042 **Wide. Fast. Deep: Recent Advances in Multiphoton Microscopy of *In Vivo* Neuronal Activity**
Jérôme Lecoq, Natalia Orlova, and Benjamin F. Grewe

Viewpoints

- 9053 **Synthesis of Hemispheric ITD Tuning from the Readout of a Neural Map: Commonalities of Proposed Coding Schemes in Birds and Mammals**
Jose L. Peña, Fanny Cazettes, Michael V. Beckert, and Brian J. Fischer

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- 9062 **Female-Specific Effects of CGRP Suggest Limited Efficacy of New Migraine Treatments in Males**
Francie Moehring and Katelyn E. Sadler

Research Articles

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- 9083 **Tumor Necrosis Factor- α -Mediated Metaplastic Inhibition of LTP Is Constitutively Engaged in an Alzheimer's Disease Model**
Anurag Singh, Owen D. Jones, Bruce G. Mockett, Shane M. Ohline, and Wickliffe C. Abraham
- 9098 **Hair Bundle Stimulation Mode Modifies Manifestations of Mechanotransduction Adaptation**
Giusy A. Caprara, Andrew A. Mecca, Yanli Wang, Anthony J. Ricci, and Anthony W. Peng

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- 9119 **The p75NTR Influences Cerebellar Circuit Development and Adult Behavior via Regulation of Cell Cycle Duration of Granule Cell Progenitors**
Juan P. Zanin, Jessica L. Verpeut, Ying Li, Michael W. Shiflett, Samuel S.-H. Wang, Viji Santhakumar, and Wilma J. Friedman

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- 9145 Diversity of Ocular Dominance Patterns in Visual Cortex Originates from Variations in Local Cortical Retinotopy**
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- 9173 Dendritic Spikes Expand the Range of Well Tolerated Population Noise Structures**
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- 9185 Fine-Grained Mapping of Cortical Somatotopies in Chronic Complex Regional Pain Syndrome**
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- 9207 The Abused Inhalant Toluene Impairs Medial Prefrontal Cortex Activity and Risk/Reward Decision-Making during a Probabilistic Discounting Task**
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- 9237 Minimizing Precision-Weighted Sensory Prediction Errors via Memory Formation and Switching in Motor Adaptation**
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- 9251 Impairment of Sharp-Wave Ripples in a Murine Model of Dravet Syndrome**
Christine S. Cheah, Brian N. Lundstrom, William A. Catterall, and John C. Oakley

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