



Cover legend: The image shows a postnatal mouse cerebellum stained for Pax2 (green) and NeuN (red), highlighting immature inhibitory interneurons and excitatory granule cells, respectively. Shh signaling promotes the expansion of Pax2 progenitors that contribute selectively to the stellate cell pool, one of two molecular layer interneuron subtypes. For more information, see the article by Li, Chen et al. (pages 5130–5143). Cover image: Wen Li.

5129 This Week in The Journal

Research Articles

CELLULAR/MOLECULAR

5130 Dendritic Inhibition by Shh Signaling-Dependent Stellate Cell Pool Is Critical for Motor Learning

Wen Li, Lei Chen, Jonathan T. Fleming, Emily Brignola, Kirill Zavalin, Andre Lagrange, Tonia Rex, Shane A. Heiney, Gregory J. Wojaczynski, Javier F. Medina, and Chin Chiang

DEVELOPMENT/PLASTICITY/REPAIR

5144 Notch Inhibition Promotes Regeneration and Immunosuppression Supports Cone Survival in a Zebrafish Model of Inherited Retinal Dystrophy

Joseph Fogerty, Ping Song, Patrick Boyd, Sarah E. Grabinski, Thanh Hoang, Adrian Reich, Lauren T. Cianciolo, Seth Blackshaw, Jeff S. Mumm, David R. Hyde, and Brian D. Perkins

SYSTEMS/CIRCUITS

5159 Spontaneous Spiking Is Governed by Broadband Fluctuations

Zachary W. Davis, Lyle Muller, and John H. Reynolds

5173 Mapping the Integration of Sensory Information across Fingers in Human Sensorimotor Cortex

Spencer A. Arbuckle, J. Andrew Pruszynski, and Jörn Diedrichsen

5186 Cortico-Cerebellar Connectivity Underlying Motor Control in Chronic Poststroke Individuals

Raghavan Gopalakrishnan, David A. Cunningham, Olivia Hogue, Madeleine Schroedel, Brett A. Campbell, Ela B. Plow, Kenneth B. Baker, and Andre G. Machado

5198 How Stimulus Statistics Affect the Receptive Fields of Cells in Primary Visual Cortex

Ali Almasi, Shi Hai Sun, Molis Yunzab, Young Jun Jung, Hamish Meffin, and Michael R. Ibbotson

5212 Interactions between Brainstem Neurons That Regulate the Motility to the Stomach

Lorenza Bellusci, Selena N. Garcia DuBar, Michelle Kuah, David Castellano, Vinona Muralidaran, Elizabeth Jones, Aaron M. Rozeboom, Richard A. Gillis, Stefano Vicini, and Niaz Sahibzada

5229 Functional (ir)Relevance of Posterior Parietal Cortex during Audiovisual Change Detection

Matthijs N. Oude Lohuis, Pietro Marchesi, Cyriel M.A. Pennartz, and Umberto Olcese

BEHAVIORAL/COGNITIVE

- 5246 **Brain System for Social Categorization by Narrative Roles**
Yorai Ron, Amnon Dafni-Merom, Noam Saadon-Grosman, Moshe Roseman,
Uri Elias, and Shahar Arzy
- 5254 **Frequency-Dependent Plasticity in the Temporal Association Cortex Originates from the Primary Auditory Cortex, and Is Modified by the Secondary Auditory Cortex and the Medial Geniculate Body**
Bingmin Luo, Jing Li, Jingpeng Liu, Funi Li, Miaoqing Gu, Haoran Xiao,
Shujun Lei, and Zhongju Xiao
- 5268 **Animal-to-Animal Variability in Partial Hippocampal Remapping in Repeated Environments**
Parsa Nilchian, Matthew A. Wilson, and Honi Sanders

NEUROBIOLOGY OF DISEASE

- 5281 **Blocking Mitochondrial Zn²⁺ Accumulation after Ischemia Reduces Mitochondrial Dysfunction and Neuronal Injury**
Yuliya V. Medvedeva, Hong Z. Yin, Afsheen Bazrafkan, Andriy Yeromin,
Sung G. Ji, Eli J. Weiss-Hung, Edward Sharman, Alyssa P. Avilez, Niki Maki,
Masih A. Rafi, Guilian Tian, Yama Akbari, and John H. Weiss

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