



Cover legend: This confocal image shows Purkinje neurons in a mouse cerebellar section. Purkinje neurons that express tdTomato fluorescence are immunostained with calbindin (green). The ER-Ca²⁺ sensor STIM1 supports expression of genes that maintain dendritic morphology and synaptic input of these cells. For more information, see the article by Dhanya and Hasan. (pages 3777–3798).
Cover image: Sreeja Kumari Dhanya.

3748 This Week in The Journal

Journal Club

- 3749 **Amyloid β Clearance Is Disrupted by Depletion of Low-Density Lipoprotein Receptor-Related Protein 4 (LRP4) in Astrocytes**
Javier Cavieres-Lepe and Nicolás Stuardo

Research Articles

CELLULAR/MOLECULAR

- 3752 **Noradrenergic Signaling Disengages Feedforward Transmission in the Nucleus Accumbens Shell**
Kevin M. Manz, Benjamin C. Coleman, Carrie A. Grueter, Brenda C. Shields, Michael R. Tadross, and Brad A. Grueter
- 3764 **Functional Microstructure of Ca_v-Mediated Calcium Signaling in the Axon Initial Segment**
Anna M. Lipkin, Margaret M. Cunniff, Perry W.E. Spratt, Stefan M. Lemke, and Kevin J. Bender
- 3777 **Purkinje Neurons with Loss of STIM1 Exhibit Age-Dependent Changes in Gene Expression and Synaptic Components**
Sreeja Kumari Dhanya and Gaiti Hasan
- 3799 **Small Extracellular Vesicles Control Dendritic Spine Development through Regulation of HDAC2 Signaling**
Longbo Zhang, Tiffany V. Lin, Qianying Yuan, Remy Sadoul, TuKiet T. Lam, and Angélique Bordey

DEVELOPMENT/PLASTICITY/REPAIR

- 3808 **Paxillin Is Required for Proper Spinal Motor Axon Growth into the Limb**
Wan-Ling Tsai, Chih-Ju Chang, Chih-Yang Wang, Tsung-I Hsu, Ming-Yuan Chang, Yi-Hsin Wu, Pei-Shan Chang, Kai-Lun Lin, Jian-Ying Chuang, Artur Kania, and Tzu-Jen Kao

SYSTEMS/CIRCUITS

- 3822 **Population Coding of Natural Electrosensory Stimuli by Midbrain Neurons**
Michael G. Metzen and Maurice J. Chacron
- 3842 **Transcranial Random Noise Stimulation Acutely Lowers the Response Threshold of Human Motor Circuits**
Weronika Potok, Marc Bächinger, Onno van der Groen, Andreea Loredana Cretu, and Nicole Wenderoth

BEHAVIORAL/COGNITIVE

- 3854 A Heteromodal Word-Meaning Binding Site in the Visual Word Form Area under Top-Down Frontoparietal Control**
Lang Qin, Bingjiang Lyu, Su Shu, Yayan Yin, Xiongfei Wang, Jianqiao Ge, Wai-Ting Siok, and Jia-Hong Gao
- 3870 Intracranial Electroencephalography Reveals Selective Responses to Cognitive Stimuli in the Periventricular Heterotopias**
Serdar Akkol, Aaron Kucyi, Wenhan Hu, Baotian Zhao, Chao Zhang, Clara Sava-Segal, Su Liu, Babak Razavi, Jianguo Zhang, Kai Zhang, and Josef Parvizi
- 3879 An Implanted Vestibular Prosthesis Improves Spatial Orientation in Animals with Severe Vestibular Damage**
Faisal Karmali, Csilla Haburcakova, Wangsong Gong, Charles C. Della Santina, Daniel M. Merfeld, and Richard F. Lewis
- 3889 Unraveling the Temporal Dynamics of Reward Signals in Music-Induced Pleasure with TMS**
Ernest Mas-Herrero, Alain Dagher, Marcel Farrés-Franch, and Robert J. Zatorre

NEUROBIOLOGY OF DISEASE

- 3900 Activation of MrgprA3 and MrgprC11 on Bladder-Innervating Afferents Induces Peripheral and Central Hypersensitivity to Bladder Distension**
Luke Grundy, Ashlee Caldwell, Sonia Garcia-Caraballo, David Grundy, Nick J. Spencer, Xinzhong Dong, Joel Castro, Andrea M. Harrington, and Stuart M. Brierley
- 3917 Reduced Repetition Suppression in Aging is Driven by Tau-Related Hyperactivity in Medial Temporal Lobe**
Jenna N. Adams, Anne Maass, David Berron, Theresa M. Harrison, Suzanne L. Baker, Wesley P. Thomas, Morgan Stanfill, and William J. Jagust
- 3932 The Transition Zone Protein AHI1 Regulates Neuronal Ciliary Trafficking of MCHRI and Its Downstream Signaling Pathway**
Yi-Chun Hsiao, Jesús Muñoz-Estrada, Karina Tuz, and Russell J. Ferland

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