



**Cover legend:** This image shows cerebellar Purkinje cells (gold) and the climbing fibers (cyan) that innervate them. Climbing fiber axons make numerous, powerful synapses (marked by vesicular glutamate transporter 2, blue) along the primary dendrites of mature Purkinje cells. For more information, see the article by Beeson et al. (pages 2403–2415).

## 2383 This Week in The Journal

### Journal Club

2384 **PERK-STING Signaling Drives Neuroinflammation in Traumatic Brain Injury**  
Alfred C. Chin

2387 **Cardiorespiratory Dysfunction Induced by Brainstem Spreading Depolarization: A Potential Mechanism for SUDEP**  
Pedro Lourenco Katayama

### Research Articles

#### CELLULAR/MOLECULAR

2390 **Effects of Efferent Activity on Hair Bundle Mechanics**  
Chia-Hsi Jessica Lin and Dolores Bozovic

2403  **$\alpha 2\delta$ -2 Protein Controls Structure and Function at the Cerebellar Climbing Fiber Synapse**  
Kathleen A. Beeson, Ryne Beeson, Gary L. Westbrook, and Eric Schnell

#### DEVELOPMENT/PLASTICITY/REPAIR

2416 **Colocalized White Matter Plasticity and Increased Cerebral Blood Flow Mediate the Beneficial Effect of Cardiovascular Exercise on Long-Term Motor Learning**  
Nico Lehmann, Arno Villringer, and Marco Taubert

#### SYSTEMS/CIRCUITS

2430 **Electrocorticogram (ECoG) Is Highly Informative in Primate Visual Cortex**  
Sidrat Tasawoor Kanth and Supratim Ray

2445 **Functional Clusters of Neurons in Layer 6 of Macaque V1**  
Michael J. Hawken, Robert M. Shapley, Anita A. Disney, Virginia Garcia-Marin, Andrew Henrie, Christopher A. Henry, Elizabeth N. Johnson, Siddhartha Joshi, Jenna G. Kelly, Dario L. Ringach, and Dajun Xing

2458 **The Contribution of AMPA and NMDA Receptors to Persistent Firing in the Dorsolateral Prefrontal Cortex in Working Memory**  
Bram van Vugt, Timo van Kerkoerle, Devavrat Vartak, and Pieter R. Roelfsema

2471 **Role of GluA3 AMPA Receptor Subunits in the Presynaptic and Postsynaptic Maturation of Synaptic Transmission and Plasticity of Endbulb–Bushy Cell Synapses in the Cochlear Nucleus**  
Flora M. Antunes, Maria E. Rubio, and Karl Kandler

- 2485 **Role of Projections between Piriform Cortex and Orbitofrontal Cortex in Relapse to Fentanyl Seeking after Palatable Food Choice-Induced Voluntary Abstinence**  
David J. Reiner, Olivia M. Lofaro, Sarah V. Applebey, Hannah Korah,  
Marco Venniro, Carlo Cifani, Jennifer M. Bossert, and Yavin Shaham

#### BEHAVIORAL/COGNITIVE

- 2498 **Spatially Distinct Beta-Band Activities Reflect Implicit Sensorimotor Adaptation and Explicit Re-aiming Strategy**  
Amirhossein Jahani, Antoine Schwey, Pierre-Michel Bernier, and Nicole Malfait
- 2510 **Alpha Rhythms Reveal When and Where Item and Associative Memories Are Retrieved**  
María Carmen Martín-Buro, Maria Wimber, Richard N. Henson,  
and Bernhard P. Staresina
- 2519 **Chronic Stress Induces Maladaptive Behaviors by Activating Corticotropin-Releasing Hormone Signaling in the Mouse Oval Bed Nucleus of the Stria Terminalis**  
Pu Hu, Ji Liu, Isabella Maita, Christopher Kwok, Edward Gu, Mark M. Gergues,  
Frederic Kelada, Mimi Phan, Jiang-Ning Zhou, Dick F. Swaab, Zhiping P. Pang,  
Paul J. Lucassen, Troy A. Roepke, and Benjamin A. Samuels
- 2538 **But Still It Moves: Static Image Statistics Underlie How We See Motion**  
Reuben Rideaux and Andrew E. Welchman
- 2553 **Primate Orbitofrontal Cortex Codes Information Relevant for Managing Explore–Exploit Tradeoffs**  
Vincent D. Costa and Bruno B. Averbeck
- 2562 **Effects of Sensorineural Hearing Loss on Cortical Synchronization to Competing Speech during Selective Attention**  
Søren A. Fuglsang, Jonatan Märcher-Rørsted, Torsten Dau, and Jens Hjortkjær

#### NEUROBIOLOGY OF DISEASE

- 2573 **EP3R-Expressing Glutamatergic Preoptic Neurons Mediate Inflammatory Fever**  
Natalia L.S. Machado, Sathyajit S. Bandaru, Stephen B.G. Abbott,  
and Clifford B. Saper

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