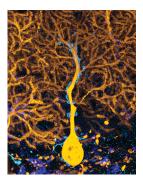


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Cover legend: This image shows cerebellar Purkinje cells (gold) and the climbing fibers (cyan) that innervate them. Climbing fiber axons make numerous, powerful synapses (marked by vesicular glutamate transporter 2, blue) along the primary dendrites 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 α2δ-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, Frederric 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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