



Cover legend: This pseudocolored transmission electron micrograph shows three vestibular hair cells from an adult mouse. The nuclei of two type II vestibular hair cells are positioned below a type I hair cell, which is partially surrounded by a partial calyx-like afferent and therefore is presumed to be converting to a type I-like hair cell. For more information, see the article by Stone et al. (pages 6217–6233).
Cover image: Rémy Pujol.

6186 This Week in The Journal

Journal Club

- 6187 Bolstered Neuronal Antioxidant Response May Confer Resistance to Development of Dementia in Individuals with Alzheimer's Neuropathology by Ameliorating Amyloid- β -Induced Oxidative Stress**
Ryan D. Hallam

Research Articles

CELLULAR/MOLECULAR

- 6190 Subcellular Distribution of Persistent Sodium Conductance in Cortical Pyramidal Neurons**
Arik Shvartsman, Oron Kotler, Ohad Stoler, Yana Khrapunsky, Israel Melamed, and Ilya A. Fleidervish
- 6202 Sperm Transcriptional State Associated with Paternal Transmission of Stress Phenotypes**
Ashley M. Cunningham, Deena M. Walker, Aarthi Ramakrishnan, Marie A. Doyle, Rosemary C. Bagot, Hannah M. Cates, Catherine J. Peña, Orna Issler, Casey K. Lardner, Caleb Browne, Scott J. Russo, Li Shen, and Eric J. Nestler

DEVELOPMENT/PLASTICITY/REPAIR

- 6217 The Transcription Factor Sox2 Is Required to Maintain the Cell Type-Specific Properties and Innervation of Type II Vestibular Hair Cells in Adult Mice**
Jennifer S. Stone, Rémy Pujol, Tot Bui Nguyen, and Brandon C. Cox

SYSTEMS/CIRCUITS

- 6234 Physiological Diversity Influences Detection of Stimulus Envelope and Fine Structure in Neurons of the Medial Superior Olive**
Brian J. Bondy, David B. Haimes, and Nace L. Golding
- 6246 Stimulus Contrast Affects Spatial Integration in the Lateral Geniculate Nucleus of Macaque Monkeys**
Darlene R. Archer, Henry J. Alitto, and W. Martin Usrey
- 6257 Visual Recognition Is Heralded by Shifts in Local Field Potential Oscillations and Inhibitory Networks in Primary Visual Cortex**
Dustin J. Hayden, Daniel P. Montgomery, Samuel F. Cooke, and Mark F. Bear

BEHAVIORAL/COGNITIVE

- 6273 Medial Prefrontal Cortex Has a Causal Role in Selectively Enhanced Consolidation of Emotional Memories after a 24-Hour Delay: A TBS Study**
Nicholas Yeh, Jessica D. Payne, Sara Y. Kim, Elizabeth A. Kensinger, Joshua D. Koen, and Nathan S. Rose
- 6281 On the Necessity of Recurrent Processing during Object Recognition: It Depends on the Need for Scene Segmentation**
Noor Seijdel, Jessica Loke, Ron van de Klundert, Matthew van der Meer, Eva Quispel, Simon van Gaal, Edward H.F. de Haan, and H. Steven Scholte
- 6290 Distinct Neural Representations of Content and Ordinal Structure in Auditory Sequence Memory**
Ying Fan (范莹), Qiming Han (韩起明), Simeng Guo (郭思萌), and Huan Luo (罗欢)
- 6304 Substantia Nigra Integrity Correlates with Sequential Working Memory in Parkinson's Disease**
Wenyue Liu, Changpeng Wang, Tingting He, Minghong Su, Yuan Lu, Guanyu Zhang, Thomas F. Münte, Lirong Jin, and Zheng Ye
- 6314 Multiple Adjoining Word- and Face-Selective Regions in Ventral Temporal Cortex Exhibit Distinct Dynamics**
Matthew J. Boring, Edward H. Silson, Michael J. Ward, R. Mark Richardson, Julie A. Fiez, Chris I. Baker, and Avniel Singh Ghuman
- 6328 Anticipatory Energization Revealed by Pupil and Brain Activity Guides Human Effort-Based Decision Making**
Irma T. Kurniawan, Marcus Grueschow, and Christian C. Ruff
- 6343 Distinct Neurophysiological Correlates of the fMRI BOLD Signal in the Hippocampus and Neocortex**
Paul F. Hill, Sarah E. Seger, Hye Bin Yoo, Danielle R. King, David X. Wang, Bradley C. Lega, and Michael D. Rugg

NEUROBIOLOGY OF DISEASE

- 6353 Early Inflammation Dysregulates Neuronal Circuit Formation *In Vivo* via Upregulation of IL-1 β**
Cynthia M. Solek, Nasr A.I. Farooqi, Niklas Brake, Philip Kesner, Anne Schohl, Jack P. Antel, and Edward S. Ruthazer

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