



Cover legend: This image shows two volumetric electron microscopy reconstruction models of mitochondria within the calyx of Held and its axon from 7 (red) and 21 (blue) day old mice. Mitochondria volumes and abundance at the calyx of Held, a large glutamatergic presynaptic terminal in the auditory brainstem, increase after the onset of hearing to support the energetic demands of high-fidelity action potential firing required in the initial stages of auditory processing. For more information see the article by Thomas et al. (pages 7994–8012).

7993 This Week in The Journal

Research Articles

CELLULAR/MOLECULAR

7994 Presynaptic Mitochondria Volume and Abundance Increase during Development of a High-Fidelity Synapse

Cannon I. Thomas, Christian Keine, Satoko Okayama, Rachel Satterfield, Morgan Musgrove, Debbie Guerrero-Given, Naomi Kamasawa, and Samuel M. Young, Jr.

DEVELOPMENT/PLASTICITY/REPAIR

8013 *Frizzled3* and *Frizzled6* Cooperate with *Vangl2* to Direct Cochlear Innervation by Type II Spiral Ganglion Neurons

Satish R. Ghimire and Michael R. Deans

SYSTEMS/CIRCUITS

8024 Mice Discriminate Stereoscopic Surfaces Without Fixating in Depth

Jason M. Samonds, Veronica Choi, and Nicholas J. Priebe

8038 Extensive Inhibitory Gating of Viscerosensory Signals by a Sparse Network of Somatostatin Neurons

Kimberly R. Thek, Sarah J.M. Ong, David C. Carter, Jaspreet K. Bassi, Andrew M. Allen, and Stuart J. McDougall

8051 Differential Tuning to Visual Motion Allows Robust Encoding of Optic Flow in the Dragonfly

Bernard J.E. Evans, David C. O'Carroll, Joseph M. Fabian, and Steven D. Wiederman

8064 Retinal Stabilization Reveals Limited Influence of Extraretinal Signals on Heading Tuning in the Medial Superior Temporal Area

Tyler S. Manning and Kenneth H. Britten

BEHAVIORAL/COGNITIVE

8079 X-Chromosome Insufficiency Alters Receptive Fields across the Human Early Visual Cortex

Tamar Green, Hadi Hosseini, Aaron Piccirilli, Alexandra Ishak, Kalanit Grill-Spector, and Allan L. Reiss

8089 Neural Pattern Similarity Differentially Relates to Memory Performance in Younger and Older Adults

Verena R. Sommer, Yana Fandakova, Thomas H. Grandy, Yee Lee Shing, Markus Werkle-Bergner, and Myriam C. Sander

- 8100 Holistic Recollection via Pattern Completion Involves Hippocampal Subfield CA3**
Xenia Grande, David Berron, Aidan J. Horner, James A. Bisby, Emrah Düzel,
and Neil Burgess
- 8112 Neural Correlates of Music Listening and Recall in the Human Brain**
Yue Ding, Yang Zhang, Wenjing Zhou, Zhipei Ling, Juan Huang, Bo Hong,
and Xiaoqin Wang
- 8124 The Functional Role of Thalamocortical Coupling in the Human Motor Network**
Enrico Opri, Stephanie Cernera, Michael S. Okun, Kelly D. Foote,
and Aysegul Gunduz
- 8135 Robust Control in Human Reaching Movements: A Model-Free Strategy to
Compensate for Unpredictable Disturbances**
Frédéric Crevecoeur, Stephen H. Scott, and Tyler Cluff
- 8149 Disturbed Prefrontal Cortex Activity in the Absence of Schizophrenia-Like Behavioral
Dysfunction in *Arc/Arg3.1* Deficient Mice**
Xiaoyan Gao, Jasper Grendel, Mary Muhia, Sergio Castro-Gomez, Ute Süsens,
Dirk Isbrandt, Matthias Kneussel, Dietmar Kuhl, and Ora Ohana
- 8164 Probabilistic Representation in Human Visual Cortex Reflects Uncertainty in Serial
Decisions**
Ruben S. van Bergen and Janneke F.M. Jehee

NEUROBIOLOGY OF DISEASE

- 8177 Role of TRPM8 Channels in Altered Cold Sensitivity of Corneal Primary Sensory
Neurons Induced by Axonal Damage**
Ricardo Piña, Gonzalo Ugarte, Matías Campos, Almudena Íñigo-Portugués,
Erick Olivares, Patricio Orio, Carlos Belmonte, Juan Bacigalupo,
and Rodolfo Madrid

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