



Cover legend: Surface view of a neonatal mouse cochlea, from tiled confocal projection images. Mechanosensory hair cells are labeled with Myosin VIIa, magenta, and a subset of supporting cells are labeled with Fatty acid binding protein 7, green (phalloidin is shown in blue). The correct medial-lateral patterning of cochlear hair cells and supporting cells to form the precise rows shown is essential for auditory function, and depends in part on the transmembrane protein encoded by *Leucine Rich Repeat Neuronal 1*. For more information, see the article by Maunsell et al. (pages 5305–5318).
Cover image: Elizabeth Driver.

5276 This Week in The Journal

Research Articles

CELLULAR/MOLECULAR

- 5277 *β* II-Spectrin Is Required for Synaptic Positioning during Retinal Development**
Debalina Goswami-Sewell, Caitlin Bagnetto, Cesiah C. Gomez, Joseph T. Anderson, Akash Maheshwari, and Elizabeth Zuniga-Sanchez
- 5290 The Amyloid Precursor Protein Regulates Synaptic Transmission at Medial Perforant Path Synapses**
Maximilian Lenz, Amelie Eichler, Pia Kruse, Christos Galanis, Dimitrios Kleidonas, Geoffroy Andrieux, Melanie Boerries, Peter Jedlicka, Ulrike Müller, Thomas Deller, and Andreas Vlachos

DEVELOPMENT/PLASTICITY/REPAIR

- 5305 *Lrrn1* Regulates Medial Boundary Formation in the Developing Mouse Organ of Corti**
Helen R. Maunsell, Kathryn Ellis, Matthew W. Kelley, and Elizabeth Carroll Driver

SYSTEMS/CIRCUITS

- 5319 Diversity of Ganglion Cell Responses to Saccade-Like Image Shifts in the Primate Retina**
Steffen Krüppel, Mohammad H. Khani, Dimokratis Karamanlis, Yunus C. Erol, Sören J. Zapp, Matthias Mietsch, Dario A. Protti, Fernando Rozenblit, and Tim Gollisch
- 5340 Dynorphinergic Projections from the Central Amygdala to the Parabrachial Nucleus Regulate Itch**
Hideki Funahashi, Darya Pavlenko, Kent Sakai, Rebecca Verpile, Kristen M. Sanders, and Tasuku Akiyama

BEHAVIORAL/COGNITIVE

- 5350 Dimensionality and Ramping: Signatures of Sentence Integration in the Dynamics of Brains and Deep Language Models**
Théo Desbordes, Yair Lakretz, Valérie Chanoine, Maxime Oquab, Jean-Michel Badier, Agnès Trébuchon, Romain Carron, Christian-G. Bénar, Stanislas Dehaene, and Jean-Rémi King
- 5365 Effects of Hallucination Proneness and Sensory Resolution on Prior Biases in Human Perceptual Inference of Time Intervals**
Emeline Duhamel, Andra Mihali, and Guillermo Horga

- 5378 **The Emergence of Tuning to Global Shape Properties of Radial Frequency Patterns in the Ventral Visual Pathway**
Samuel J. D. Lawrence, Elisa Zamboni, Richard J. W. Vernon, André D. Gouws, Alex R. Wade, and Antony B. Morland
- 5391 **Network Communications Flexibly Predict Visual Contents That Enhance Representations for Faster Visual Categorization**
Yuening Yan, Jiayu Zhan, Robin A. A. Ince, and Philippe G. Schyns
- 5406 **EEG Decoding Reveals Neural Predictions for Naturalistic Material Behaviors**
Daniel Kaiser, Rico Stecher, and Katja Doerschner

NEUROBIOLOGY OF DISEASE

- 5414 **Metastatic Infiltration of Nervous Tissue and Periosteal Nerve Sprouting in Multiple Myeloma-Induced Bone Pain in Mice and Human**
Marta Diaz-delCastillo, Oana Palasca, Tim T. Nemler, Didde M. Thygesen, Norma A. Chávez-Saldaña, Juan A. Vázquez-Mora, Lizeth Y. Ponce Gomez, Lars Juhl Jensen, Holly Evans, Rebecca E. Andrews, Aritri Mandal, David Neves, Patrick Mehlen, James P. Caruso, Patrick M. Dougherty, Theodore J. Price, Andrew Chantry, Michelle A. Lawson, Thomas L. Andersen, Juan M. Jimenez-Andrade, and Anne-Marie Heegaard

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