



**Cover legend:** This scanning electron micrograph shows the hair bundle of an inner hair cell from a wild-type mouse cochlea. Sound-induced forces displace these mechanosensitive organelles, which comprise stereocilia organized into rows of increasing height. Hair bundle deflection tenses external filaments (called tip links) that connect stereocilia rows, and this gates mechanotransduction channels, initiating the auditory signal. A critical maturation step for hair bundle mechanotransduction that occurs between postnatal days 7 and 11 requires the integrity of the deafness gene *LOXHD1*. For more information, see the article by Trouillet et al. (pages 3331–3343). Cover image: Nicolas Grillet.

## 3300 This Week in The Journal

### Celebrating 40 Years of *JNeurosci*

#### PROGRESSIONS

- 3301 Progressions on the Coexistence of Neuronal and Glial Precursor Cells in the Cerebral Ventricular Zone**  
Pat Levitt

#### Research Articles

#### CELLULAR/MOLECULAR

- 3307 Calcium Channel-Dependent Induction of Long-Term Synaptic Plasticity at Excitatory Golgi Cell Synapses of Cerebellum**  
F. Locatelli, T. Soda, I. Montagna, S. Tritto, L. Botta, F. Prestori, and E. D'Angelo
- 3320 Rod Photoreceptors Avoid Saturation in Bright Light by the Movement of the G Protein Transducin**  
Rikard Frederiksen, Ala Morshedian, Sonia A. Tripathy, Tongzhou Xu, Gabriel H. Travis, Gordon L. Fain, and Alapakkam P. Sampath
- 3331 *Loxhd1* Mutations Cause Mechanotransduction Defects in Cochlear Hair Cells**  
Alex Trouillet, Katharine K. Miller, Shefin Sam George, Pei Wang, Noor-E-Seher Ali, Anthony Ricci, and Nicolas Grillet

#### DEVELOPMENT/PLASTICITY/REPAIR

- 3344 Loss of Coiled-Coil Protein Cep55 Impairs Neural Stem Cell Abscission and Results in p53-Dependent Apoptosis in Developing Cortex**  
Jessica N. Little, Katrina C. McNeely, Nadine Michel, Christopher J. Bott, Kaela S. Lettieri, Madison R. Hecht, Sara A. Martin, and Noelle D. Dwyer
- 3366 Harnessing the Benefits of Neuroinflammation: Generation of Macrophages/Microglia with Prominent Remyelinating Properties**  
Manoj Kumar Mishra, Khalil S. Rawji, Michael B. Keough, Janson Kappen, Reza Dowlatabadi, Hans J. Vogel, Sameeksha Chopra, Félix Distéfano-Gagné, Antoine Dufour, David Gosselin, and V. Wee Yong

#### SYSTEMS/CIRCUITS

- 3386 Face-Selective Units in Human Ventral Temporal Cortex Reactivate during Free Recall**  
Simon Khuvis, Erin M. Yeagle, Yitzhak Norman, Shany Grossman, Rafael Malach, and Ashesh D. Mehta
- 3400 Perinatal Fentanyl Exposure Leads to Long-Lasting Impairments in Somatosensory Circuit Function and Behavior**  
Jason B. Alipio, Catherine Haga, Megan E. Fox, Keiko Arakawa, Rakshita Balaji, Nathan Cramer, Mary Kay Lobo, and Asaf Keller

- 3418 Parallel and Serial Sensory Processing in Developing Primary Somatosensory and Motor Cortex**  
Lex J. Gómez, James C. Dooley, Greta Sokoloff, and Mark S. Blumberg
- 3432 Differential Contribution of V0 Interneurons to Execution of Rhythmic and Nonrhythmic Motor Behaviors**  
Pavel V. Zelenin, Manideep G. Vemula, Vladimir F. Lyalka, Ole Kiehn, Adolfo E. Talpalar, and Tatiana G. Deliagina
- 3446 A Basomedial Amygdala to Intercalated Cells Microcircuit Expressing PACAP and Its Receptor PAC1 Regulates Contextual Fear**  
Abha K. Rajbhandari, Christopher J. Oceau, Sarah Gonzalez, Zachary T. Pennington, Farzanna Mohamed, Jeremy Trott, Jasmine Chavez, Erin Ngyuen, Natasha Keces, Weizhe Z. Hong, Rachael L. Neve, James Waschek, Baljit S. Khakh, and Michael S. Fanselow
- 3462 Glutamatergic Neurons in the Preoptic Hypothalamus Promote Wakefulness, Destabilize NREM Sleep, Suppress REM Sleep, and Regulate Cortical Dynamics**  
Alejandra Mondino, Viviane S. Hambrecht-Wiedbusch, Duan Li, A. Kane York, Dinesh Pal, Joaquin González, Pablo Torterolo, George A. Mashour, and Giancarlo Vanini
- 3479 Nonlinear Spatial Integration Underlies the Diversity of Retinal Ganglion Cell Responses to Natural Images**  
Dimokratis Karamanlis and Tim Gollisch

#### BEHAVIORAL/COGNITIVE

- 3499 Tracking Age Differences in Neural Distinctiveness across Representational Levels**  
Malte Kobelt, Verena R. Sommer, Attila Keresztes, Markus Werkle-Bergner, and Myriam C. Sander
- 3512 Catecholaminergic Innervation of the Lateral Nucleus of the Cerebellum Modulates Cognitive Behaviors**  
Erik S. Carlson, Avery C. Hunker, Stefan G. Sandberg, Timothy M. Locke, Julianne M. Geller, Abigail G. Schindler, Steven A. Thomas, Martin Darvas, Paul E. M. Phillips, and Larry S. Zweifel
- 3531 Evaluating Visual Cues Modulates Their Representation in Mouse Visual and Cingulate Cortex**  
Alexandra Wal, Frederike Johanna Klein, Gregory Born, Laura Busse, and Steffen Katzner
- 3545 Computational and Neurobiological Substrates of Cost-Benefit Integration in Altruistic Helping Decision**  
Jie Hu, Yang Hu, Yue Li, and Xiaolin Zhou

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