



Cover legend: This super-resolution Structured Illumination Microscopy image illustrates enlarged, permeabilized lysosomes of auditory outer hair cells lacking lysosomal channel mucopolipins 1 and 3. In the co-absence of these channels, lysosomes (red) become “leaky”, allowing cytosolic galectin 3 (green) to enter and bind to luminal glycoalyx. The permeabilized lysosomes also let toxic hydrolases into the cytoplasm which causes hair cell death and, therefore, hearing loss. (pages 3177–3189).

i This Week in The Journal

Progressions

- 3149 **Assembling a Cellular User Manual for the Brain**
Steven A. Sloan and Ben A. Barres

Journal Club

- 3154 **Understanding the Hierarchical Organization of Large-Scale Networks Based on Temporal Modulations in Patterns of Neural Connectivity**
Reema Shafi
- 3157 **Identifying the Unique Role of Notch3 in Adult Neural Stem Cell Maintenance**
Joshua D. Rieskamp, Jiyeon K. Denninger, and Tyler J. Dause

Research Articles

CELLULAR/MOLECULAR

- 3240 **Synaptotagmin 7 Mediates Both Facilitation and Asynchronous Release at Granule Cell Synapses**
Josef Turecek and Wade G. Regehr

SYSTEMS/CIRCUITS

- 3208 **A Critical Role for the Nucleus Reuniens in Long-Term, But Not Short-Term Associative Recognition Memory Formation**
Gareth R.I. Barker and Elizabeth Clea Warburton
- 3287 **Testing the Efficacy of Single-Cell Stimulation in Biasing Presubicular Head Direction Activity**
Stefano Coletta, Markus Frey, Khaled Nasr, Patricia Preston-Ferrer, and Andrea Burgalossi
- 3318 **Neuronal Organization in the Inferior Colliculus Revisited with Cell-Type-Dependent Monosynaptic Tracing**
Chenggang Chen, Mingxiu Cheng, Tetsufumi Ito, and Sen Song

BEHAVIORAL/COGNITIVE

- 3190 **Elevation of Hippocampal Neurogenesis Induces a Temporally Graded Pattern of Forgetting of Contextual Fear Memories**
Aijing Gao, Frances Xia, Axel J. Guskjolen, Adam I. Ramsaran, Adam Santoro, Sheena A. Josselyn, and Paul W. Frankland
- 3199 **A Novel Retrieval-Dependent Memory Process Revealed by the Arrest of ERK1/2 Activation in the Basolateral Amygdala**
Emiliano Merlo, Amy L. Milton, and Barry J. Everitt

- 3252 **The Encoding of Sound Source Elevation in the Human Auditory Cortex**
Régis Trapeau and Marc Schönwiesner
- 3265 **Electrophysiological Signatures of Spatial Boundaries in the Human Subiculum**
Sang Ah Lee, Jonathan F. Miller, Andrew J. Watrous, Michael R. Sperling, Ashwini Sharan, Gregory A. Worrell, Brent M. Berry, Joshua P. Aronson, Kathryn A. Davis, Robert E. Gross, Bradley Lega, Sameer Sheth, Sandhitsu R. Das, Joel M. Stein, Richard Gorniak, Daniel S. Rizzuto, and Joshua Jacobs
- 3303 **Doctor, Teacher, and Stethoscope: Neural Representation of Different Types of Semantic Relations**
Yangwen Xu, Xiaosha Wang, Xiaoying Wang, Weiwei Men, Jia-Hong Gao, and Yanchao Bi
- 3333 **Challenge to Promote Change: The Neural Basis of the Contextual Interference Effect in Young and Older Adults**
Lisa Pauwels, Sima Chalavi, Jolien Gooijers, Celine Maes, Geneviève Albouy, Stefan Sunaert, and Stephan P. Swinnen

NEUROBIOLOGY OF DISEASE

- 3160 **C8ORF37 Is Required for Photoreceptor Outer Segment Disc Morphogenesis by Maintaining Outer Segment Membrane Protein Homeostasis**
Ali S. Sharif, Dongmei Yu, Stuart Loertscher, Richard Austin, Kevin Nguyen, Pranav D. Mathur, Anna M. Clark, Junhuang Zou, Ekaterina S. Lobanova, Vadim Y. Arshavsky, and Jun Yang
- 3177 **Codeficiency of Lysosomal Mucopolipins 3 and 1 in Cochlear Hair Cells Diminishes Outer Hair Cell Longevity and Accelerates Age-Related Hearing Loss**
Teerawat Wiwatpanit, Natalie N. Remis, Aisha Ahmad, Yingjie Zhou, John C. Clancy, Mary Ann Cheatham, and Jaime García-Añoveros
- 3218 **Positive Allosteric Modulation as a Potential Therapeutic Strategy in Anti-NMDA Receptor Encephalitis**
Natasha Warikoo, Samuel J. Brunwasser, Ann Benz, Hong-Jin Shu, Steven M. Paul, Michael Lewis, James Doherty, Michael Quirk, Laura Piccio, Charles F. Zorumski, Gregory S. Day, and Steven Mennerick
- 3230 **Nigrostriatal and Mesolimbic D_{2/3} Receptor Expression in Parkinson's Disease Patients with Compulsive Reward-Driven Behaviors**
Adam J. Stark, Christopher T. Smith, Ya-Chen Lin, Kalen J. Petersen, Paula Trujillo, Nelleke C. van Wouwe, Hakmook Kang, Manus J. Donahue, Robert M. Kessler, David H. Zald, and Daniel O. Claassen
- 3273 **Cell-Specific Deletion of PGC-1 α from Medium Spiny Neurons Causes Transcriptional Alterations and Age-Related Motor Impairment**
Laura J. McMeekin, Ye Li, Stephanie N. Fox, Glenn C. Rowe, David K. Crossman, Jeremy J. Day, Yuqing Li, Peter J. Detloff, and Rita M. Cowell
- 3346 **Celecoxib Ameliorates Seizure Susceptibility in Autosomal Dominant Lateral Temporal Epilepsy**
Lin Zhou, Liang Zhou, Li-da Su, Sheng-Long Cao, Ya-Jun Xie, Na Wang, Chong-Yu Shao, Ya-Nan Wang, Jia-Huan Zhou, John K. Cowell, and Ying Shen
- 3358 **Maternal and Early Postnatal Immune Activation Produce Dissociable Effects on Neurotransmission in mPFC–Amygdala Circuits**
Yan Li, Galen Missig, Beate C. Finger, Samantha M. Landino, Abigail J. Alexander, Emery L. Mokler, James O. Robbins, Yunona Manasian, Woori Kim, Kwang-Soo Kim, Christopher J. McDougle, William A. Carlezon, Jr., and Vadim Y. Bolshakov

3373 *Correction:* The article “Oscillatory Reinstatement Enhances Declarative Memory” by Amir-Homayoun Javadi, James C. Glen, Sara Halkiopoulos, Mei Schulz, and Hugo J. Spiers, appeared on pages 9939–9944 of the October 11, 2017 issue. A correction for this article appears on p. 3373.

Correction: The article “Visual Population Receptive Fields in People with Schizophrenia Have Reduced Inhibitory Surrounds” by Elaine J. Anderson, Marc S. Tibber, D. Sam Schwarzkopf, Sukhwinder S. Shergill, Emilio Fernandez-Egea, Geraint Rees, and Steven C. Dakin, appeared on pages 1546–1556 of the February 8, 2017 issue. A correction for this article appears on pp. 3373–3374.

Persons interested in becoming members of the Society for Neuroscience should contact the Membership Department, Society for Neuroscience, 1121 14th St., NW, Suite 1010, Washington, DC 20005, phone 202-962-4000.

Instructions for Authors are available at <http://www.jneurosci.org/content/information-authors>. Authors should refer to these Instructions online for recent changes that are made periodically.

Submissions should be submitted online using the following url: <http://jneurosci.msubmit.net>. Please contact the Central Office, via phone, fax, or e-mail with any questions. Our contact information is as follows: phone, 202-962-4000; e-mail, jn@sfn.org.