



Cover legend: This slice through a volume generated by electron tomography, along with the accompanying [Movie](#), shows polarized cristae and crista junctions in mitochondria tethered to the subsurface cisternae (SSC) in a mouse outer hair cell. Aging was associated with crista and crista junction plasticity, SSC stress, decoupling of mitochondria from the SSC, mitochondrial fission/fusion imbalance, perturbed Ca²⁺ homeostasis, and modeled energy stress. For more information, see the article by Perkins et al. (pages 8556–8572). Cover Image: Guy Perkins, Mark Ellisman (University of California, San Diego, La Jolla, CA), and Ebenezer N. Yamoah.

8409 This Week in The Journal

Journal Club

8410 Ventral Hippocampus Projections to Prelimbic Cortex Support Contextual Fear Memory

Alexandra O. Cohen and Heidi C. Meyer

Research Articles

CELLULAR/MOLECULAR

8413 Processing of Hippocampal Network Activity in the Receiver Network of the Medial Entorhinal Cortex Layer V

Andrei Rozov, Märt Rannap, Franziska Lorenz, Azat Nasretdinov, Andreas Draguhn, and Alexei V. Egorov

8426 Release Mode Dynamically Regulates the RRP Refilling Mechanism at Individual Hippocampal Synapses

Yujin Kim, Unghwi Lee, Chunghon Choi, and Sunghoe Chang

8438 LAR-RPTs Directly Interact with Neurexins to Coordinate Bidirectional Assembly of Molecular Machineries

Kyung Ah Han, Yoon-Jung Kim, Taek Han Yoon, Hyeonho Kim, Sungwon Bae, Ji Won Um, Se-Young Choi, and Jaewon Ko

8463 Relapse-Associated Transient Synaptic Potentiation Requires Integrin-Mediated Activation of Focal Adhesion Kinase and Cofilin in D1-Expressing Neurons

Constanza Garcia-Keller, Michael D. Scofield, Daniela Neuhofer, Swathi Varanasi, Matthew T. Reeves, Brandon Hughes, Ethan Anderson, Christopher T. Richie, Carlos Mejias-Aponte, James Pickel, Bruce T. Hope, Brandon K. Harvey, Christopher W. Cowan, and Peter W. Kalivas

SYSTEMS/CIRCUITS

8478 Descending Dopaminergic Inputs to Reticulospinal Neurons Promote Locomotor Movements

Dimitri Ryczko, Swantje Grätsch, Michael H. Alpert, Jackson J. Cone, Jacquelin Kasemir, Angelina Ruthe, Philippe-Antoine Beauséjour, François Auclair, Mitchell F. Roitman, Simon Alford, and Réjean Dubuc

8491 Revaluing the Role of vmPFC in the Acquisition of Pavlovian Threat Conditioning in Humans

Simone Battaglia, Sara Garofalo, Giuseppe di Pellegrino, and Francesca Starita

8501 Effective Connectivity Reveals an Interconnected Inferotemporal Network for Three-Dimensional Structure Processing

Elsie Premereur and Peter Janssen

- 8513 **A Minimal Biophysical Model of Neocortical Pyramidal Cells: Implications for Frontal Cortex Microcircuitry and Field Potential Generation**
Beatriz Herrera, Amirsaman Sajad, Geoffrey F. Woodman, Jeffrey D. Schall, and Jorge J. Riera

BEHAVIORAL/COGNITIVE

- 8530 **Crossmodal Phase Reset and Evoked Responses Provide Complementary Mechanisms for the Influence of Visual Speech in Auditory Cortex**
Pierre Mégevand, Manuel R. Mercier, David M. Groppe, Elana Zion Golumbic, Nima Mesgarani, Michael S. Beauchamp, Charles E. Schroeder, and Ashesh D. Mehta

NEUROBIOLOGY OF DISEASE

- 8543 **An Etiological Foxp2 Mutation Impairs Neuronal Gain in Layer VI Cortico-Thalamic Cells through Increased GABA_B/GIRK Signaling**
Mélanie Druart, Matthias Groszer, and Corentin Le Magueresse
- 8556 **Altered Outer Hair Cell Mitochondrial and Subsurface Cisternae Connectomics Are Candidate Mechanisms for Hearing Loss in Mice**
Guy Perkins, Jeong Han Lee, Seojin Park, Mincheol Kang, Maria C. Perez-Flores, Saeyeon Ju, Grady Phillips, Anna Lysakowski, Michael Anne Gratton, and Ebenezer N. Yamoah
- 8573 **Associations between Vascular Function and Tau PET Are Associated with Global Cognition and Amyloid**
Daniel Albrecht, A. Lisette Isenberg, Joy Stradford, Teresa Monreal, Abhay Sagare, Maricarmen Pachicano, Melanie Sweeney, Arthur Toga, Berislav Zlokovic, Helena Chui, Elizabeth Joe, Lon Schneider, Peter Conti, Kay Jann, and Judy Pa
- 8587 **Aging-Exacerbated Acute Axon and Myelin Injury Is Associated with Microglia-Derived Reactive Oxygen Species and Is Alleviated by the Generic Medication Indapamide**
Nathan J. Michaels, Kennedy Lemmon, Jason R. Plemel, Samuel K. Jensen, Manoj K. Mishra, Dennis Brown, Khalil S. Rawji, Marcus Koch, and V. Wee Yong
- 8601 **Erratum:** The article “Circular RNA DLGAP4 Ameliorates Ischemic Stroke Outcomes by Targeting miR-143 to Regulate Endothelial-Mesenchymal Transition Associated with Blood–Brain Barrier Integrity” by Ying Bai, Yuan Zhang, Bing Han, Li Yang, Xufeng Chen, Rongrong Huang, Fangfang Wu, Jie Chao, Pei Liu, Gang Hu, John H. Zhang, and Honghong Yao, appeared on the pages 32–50 of the January 3, 2018 issue. An erratum for this article appear on page 8601.

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