



Cover legend: This composite image shows zebrafish dorsal root ganglia sensory neurons expressing a GFP-tagged peptide (lifeact) that binds filamentous actin. The top two cells were captured with super-resolution microscopy, whereas the others were captured with standard confocal microscopy. Both filopodia and invadopodia are present in these neurons, but invadopodia are distinguishable by bright spots that are centralized in the growth cone. For more information, see the article by Kikel-Courey et al. (pages 6617–6636) in this issue. Cover image: Nina Kikel-Courey and Cody Smith.

6578 This Week in The Journal

Journal Club

- 6579 **Neural Tracking of Speech: Top-Down and Bottom-Up Influences in the Musician's Brain**
Katerina D. Kandylaki and Antonio Criscuolo

Research Articles

CELLULAR/MOLECULAR

- 6582 **The Genome-Wide Binding Profile for Human RE1 Silencing Transcription Factor Unveils a Unique Genetic Circuitry in Hippocampus**
James C. McGann, Michael A. Spinner, Saurabh K. Garg, Karin A. Mullendorff, Randall L. Woltjer, and Gail Mandel
- 6596 **Mitochondrial Proteostasis Requires Genes Encoded in a Neurodevelopmental Syndrome Locus**
Avanti Gokhale, Chelsea E. Lee, Stephanie A. Zlatic, Amanda A.H. Freeman, Nicole Shearing, Cortnie Hartwig, Oluwaseun Ogunbona, Julia L. Bassell, Meghan E. Wynne, Erica Werner, Chongchong Xu, Zhexing Wen, Duc Duong, Nicholas T. Seyfried, Carrie E. Bearden, Viktor János Oláh, Matthew J.M. Rowan, Jill R. Glausier, David A. Lewis, and Victor Faundez

DEVELOPMENT/PLASTICITY/REPAIR

- 6617 **Pioneer Axons Utilize a Dcc Signaling-Mediated Invasion Brake to Precisely Complete Their Pathfinding Odyssey**
Nina L. Kikel-Courey, Lauren A. Green, Evan L. Nichols, Abigail M. Zellmer, Sanjana Pai, Sam A. Hedlund, Kurt C. Marsden, and Cody J. Smith
- 6637 **The Axonal Glycolytic Pathway Contributes to Sensory Axon Extension and Growth Cone Dynamics**
Andrea Ketschek, Rajiv Sainath, Sabrina Holland, and Gianluca Gallo
- 6652 **The Rac-GAP alpha2-Chimaerin Signals via CRMP2 and Stathmins in the Development of the Ocular Motor System**
Luis Carretero-Rodriguez, Ragnheiður Guðjónsdóttir, Ivana Poparić, Madeline Louise Reilly, Mary Chol, Isaac H. Bianco, Marco Chiappello, Renata Feret, Michael J. Deery, and Sarah Guthrie

SYSTEMS/CIRCUITS

- 6673 **On the Role of Arkypallidal and Prototypical Neurons for Phase Transitions in the External Pallidum**
Richard Gast, Ruxue Gong, Helmut Schmidt, Hil G.E. Meijer, and Thomas R. Knösche

- 6684 **No Evidence for Entrainment: Endogenous Gamma Oscillations and Rhythmic Flicker Responses Coexist in Visual Cortex**
Katharina Duecker, Tjerk P. Gutteling, Christoph S. Herrmann, and Ole Jensen
- 6699 **Paraventricular Nucleus Oxytocin Subsystems Promote Active Paternal Behaviors in Mandarin Voles**
Zhixiong He, Lizi Zhang, Wenjuan Hou, Xin Zhang, Larry J. Young, Laifu Li, Limin Liu, Huan Ma, Yufeng Xun, Zijian Lv, Yitong Li, Rui Jia, Jingang Li, and Fadao Tai

BEHAVIORAL/COGNITIVE

- 6714 **Human Hippocampal Neurons Track Moments in a Sequence of Events**
Leila Reddy, Benedikt Zoefel, Jessy K. Possel, Judith Peters, Doris E. Dijksterhuis, Marlene Poncet, Elisabeth C.W. van Straaten, Johannes C. Baayen, Sander Idema, and Matthew W. Self
- 6726 **Neural Encoding of Auditory Statistics**
Benjamin Skerritt-Davis and Mounya Elhilali
- 6740 **Noise Correlations for Faster and More Robust Learning**
Matthew R. Nassar, Daniel Scott, and Apoorva Bhandari

NEUROBIOLOGY OF DISEASE

- 6753 **4R Tau Modulates Cocaine-Associated Memory through Adult Dorsal Hippocampal Neurogenesis**
Hongchun Li, Wei Xu, Denian Wang, Liang Wang, Qiyao Fang, Xuemei Wan, Jiamei Zhang, Yiming Hu, Huifang Li, Jie Zhang, Zhen Yang, Chunqi Liu, Xiaocong Liu, Yonghai Wang, Bin Liu, Zhengtao Hu, Ying Zhao, Qian Bu, Hongbo Wang, Jingwei Tian, Yinglan Zhao, and Xiaobo Cen
- 6775 **Inhibition of Epigenetic Modifiers LSD1 and HDAC1 Blocks Rod Photoreceptor Death in Mouse Models of Retinitis Pigmentosa**
Evgenya Y. Popova, Yuka Imamura Kawasawa, Samuel Shao-Min Zhang, and Colin J. Barnstable
- 6793 **Erratum:** The article “Patch-seq: Past, Present, and Future” by Marcela Lipovsek, Cedric Bardy, Cathryn R. Cadwell, Kristen Hadley, Dmitry Kobak, and Shreejoy J. Tripathy appeared on pages 937–946 of the February 3, 2021 issue. An erratum for this article appears on page 6793.
- 6794 **Erratum:** The article “Spatially Guided Distractor Suppression during Visual Search” by Tobias Feldmann-Wüstefeld, Marina Weinberger, and Edward Awh appeared on pages 3180–3191 of the April 7, 2021 issue. An erratum for this article appears on page 6794.

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