



Cover legend: The figure symbolizes the transition from local (distant) to global (front) connectivity and propagation dynamics with decreasing clustering and modularity in neuronal networks in vitro (red: axons, green: somata and dendrites). Critical avalanche dynamics emerge with moderate modularity (middle). For more information, see the article by Okujeni and Egert (pages 2515–2526).
Cover image: Samora Okujeni.

2439 This Week in The Journal

Research Articles

CELLULAR/MOLECULAR

- 2440 Ribosomes in RNA Granules Are Stalled on mRNA Sequences That Are Consensus Sites for FMRP Association**
Mina N. Anadolu, Jingyu Sun, Senthilkumar Kailasam, Kleanthi Chalkiadaki, Konstanze Krimbacher, Jewel T-Y. Li, Teodora Markova, Seyed M. Jafarnejad, Francois Lefebvre, Joaquin Ortega, Christos G. Gkogkas, and Wayne S. Sossin
- 2460 Megahertz Sampling of Prestin (SLC26a5) Voltage-Sensor Charge Movements in Outer Hair Cell Membranes Reveals Ultrasonic Activity that May Support Electromotility and Cochlear Amplification**
Joseph Santos-Sacchi, Jun-Ping Bai, and Dhasakumar Navaratnam

DEVELOPMENT/PLASTICITY/REPAIR

- 2469 Pairing Transcranial Magnetic Stimulation and Loud Sounds Produces Plastic Changes in Motor Output**
Maria Germann, Natalie J. Maffitt, Annie Poll, Marco Raditya, Jason S.K. Ting, and Stuart N. Baker

SYSTEMS/CIRCUITS

- 2482 Multielectrode Cortical Stimulation Selectively Induces Unidirectional Wave Propagation of Excitatory Neuronal Activity in Biophysical Neural Model**
Alma S. Halgren, Zarek Siegel, Ryan Golden, and Maxim Bazhenov
- 2497 Voltage to Calcium Transformation Enhances Direction Selectivity in *Drosophila* T4 Neurons**
Abhishek Mishra, Etienne Serbe-Kamp, Alexander Borst, and Juergen Haag
- 2515 Structural Modularity Tunes Mesoscale Criticality in Biological Neuronal Networks**
Samora Okujeni and Ulrich Egert
- 2527 Widespread fMRI BOLD Signal Overactivations during Cognitive Control in Older Adults Are Not Matched by Corresponding Increases in fPET Glucose Metabolism**
Lars Stiernman, Filip Grill, Charlotte McNulty, Philip Bahrd, Vania Panes Lundmark, Jan Axelsson, Alireza Salami, and Anna Rieckmann
- 2537 Neural Ensemble Fragmentation in the Anesthetized *Drosophila* Brain**
Michael Troup, Lucy A. L. Tainton-Heap, and Bruno van Swinderen

BEHAVIORAL/COGNITIVE

- 2552 **Development of Human Lateral Prefrontal Sulcal Morphology and Its Relation to Reasoning Performance**
Ethan H. Willbrand, Emilio Ferrer, Silvia A. Bunge, and Kevin S. Weiner
- 2568 **Virtual (Zoom) Interactions Alter Conversational Behavior and Interbrain Coherence**
Stephanie Balters, Jonas G. Miller, Rihui Li, Grace Hawthorne, and Allan L. Reiss
- 2579 **Lesions to Caudomedial Nidopallium Impair Individual Vocal Recognition in the Zebra Finch**
Kevin Yu, William E. Wood, Leah G. Johnston, and Frederic E. Theunissen
- 2597 **Role of Piriform Cortex and Its Afferent Projections in Relapse to Fentanyl Seeking after Food Choice-Induced Voluntary Abstinence**
Sarah M. Claypool, David J. Reiner, Sana Behdin, Javier Orihuel, Ashley Batista, Kiera E. Caldwell, Jonathan J. Chow, Jennifer M. Bossert, F. Javier Rubio, Bruce T. Hope, and Yavin Shaham

NEUROBIOLOGY OF DISEASE

- 2615 **Impaired Autophagic-Lysosomal Fusion in Parkinson's Patient Midbrain Neurons Occurs through Loss of ykt6 and Is Rescued by Farnesyltransferase Inhibition**
Caleb Pitcairn, Naomi Murata, Annie J. Zalon, Iva Stojkowska, and Joseph R. Mazzulli

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