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

DEVELOPMENT/PLASTICITY/REPAIR

6617 Pioneer Axons Utilize a Dcc Signaling-Mediated Invasion Brake to Precisely Complete Their Pathfinding Odyssey
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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 Poparic, Madeline Louise Reilly, Mary Chol, Isaac H. Bianco, Marco Chiapello, 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
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

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

Human Hippocampal Neurons Track Moments in a Sequence of Events
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Neural Encoding of Auditory Statistics
Benjamin Skerritt-Davis and Mounya Elhilali

Noise Correlations for Faster and More Robust Learning
Matthew R. Nassar, Daniel Scott, and Apoorva Bhandari

4R Tau Modulates Cocaine-Associated Memory through Adult Dorsal Hippocampal Neurogenesis
Hongchun Li, Wei Xu, Denian Wang, Liang Wang, Qiyaof Fang, Xuemei Wan, Jiamei Zhang, Yiming Hu, Huiyang Li, Jie Zhang, Zhen Yang, Chunqi Liu, Xiaocong Liu, Yonghui Wang, Bin Liu, Zhengtao Hu, Ying Zhao, Qian Bu, Hongbo Wang, Jingwei Tian, Yinglan Zhao, and Xiaobo Cen

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

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.