This Week in The Journal

Viewpoints

Amygdala Intercalated Cells: Gate Keepers and Conveyors of Internal State to the Circuits of Emotion
Douglas Asede, Divyesh Doddapaneni, and M. McLean Bolton

Research Articles

CELLULAR/MOLECULAR

Differential Regulation of the BDNF Gene in Cortical and Hippocampal Neurons
Eli-Eelika Esvald, Jürgen Tuvikene, Andra Moistus, Käthy Rannaste, Susann Kõomägi, and Tõnis Timmusk

DEVELOPMENT/PLASTICITY/REPAIR

The RNA-Binding Protein HuR Is Integral to the Function of Nociceptors in Mice and Humans
Nikesh Kunder, June Bryan de la Peña, Tzu-Fang Lou, Rebecca Chase, Prarthana Suresh, Jennifer Lawson, Tarjani Shukla, Bryan Black, and Zachary T. Campbell

SYSTEMS/CIRCUITS

Emergence of Distinct Neural Subspaces in Motor Cortical Dynamics during Volitional Adjustments of Ongoing Locomotion
David Xing, Wilson Truccolo, and David A. Borton

A Role for Thalamic Projection GABAergic Neurons in Circadian Responses to Light
Olivier Brock, Ciğdem Gelegen, Peter Sully, Irene Salgarella, Polona Jager, Lucy Menage, Ishita Mehta, Jagoda Jęczmień-Lazur, Deyl Djama, Lauren Strother, Angelica Coculla, Anthony C. Vernon, Stephen Brickley, Philip Holland, Samuel F. Cooke, and Alessio Delogu

Nociceptive Stimuli Activate the Hypothalamus–Habenula Circuit to Inhibit the Mesolimbic Reward System and Cocaine-Seeking Behaviors
Soo Min Lee, Han Byeol Jang, Yu Fan, Bong Hyo Lee, Sang Chan Kim, Kyle B. Bills, Scott C. Steffensen, and Hee Young Kim

BEHAVIORAL/COGNITIVE

Pathological Slow-Wave Activity and Impaired Working Memory Binding in Post-Traumatic Amnesia
Emma-Jane Mallas, Nikos Gorgoraptis, Sophie Dautricourt, Yoni Pertzov, Gregory Scott, and David J. Sharp

Cover legend: This image shows a 3D reconstruction of amygdala intercalated cells (purple) interlaced by axons from temporal association cortex (green). These axons provide auditory information to the amygdala during fear conditioning. Intercalated cells were labeled using a red fluorescent protein coupled to dopamine D1 receptors and temporal cortical axons were labeled with green fluorescent protein bounded by channelrhodopsin. For more information, see the article by Asede et al. (pages 9098–9109).
Cover image: Douglas Asede.
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