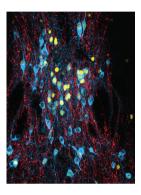


March 3, 2021 • Volume 41 Number 9 • www.ineurosci.org



Cover legend: This confocal image shows the innervation of dopaminergic neurons in the caudal linear raphe nucleus by the bed nucleus of the stria terminalis (BNST) and the activation pattern of these neurons during fear memory consolidation. Dopaminergic neurons were co-immunostained with c-Fos (yellow) and tyrosine hydroxylase (cyan), while hM3Dq-expressing BNST axons were visualized by anti-RPF immunostaining (red). Activation of GABAergic neurons of BNST during fear conditioning or memory consolidation resulted in an enhanced cue-related fear recall. For more information, see the article by Bruzsik et al. (pages 1982-1995). Cover image: Biborka Bruzsik and Laszlo Biro.

This Week in The Journal 1846

Iournal Club

When to Stop Eating: An Auxiliary Brake on Food Consumption from the Nucleus Accumbens Ben Yang

Research Articles

CELLULAR/MOLECULAR

The Cellular Electrophysiological Properties Underlying Multiplexed Coding in **Purkinie Cells**

Yunliang Zang and Erik De Schutter

DEVELOPMENT/PLASTICITY/REPAIR

PAK1 Positively Regulates Oligodendrocyte Morphology and Myelination Tanya L. Brown, Hirokazu Hashimoto, Lisbet T. Finseth, Teresa L. Wood, and Wendy B. Macklin

SYSTEMS/CIRCUITS

- Premotor Ramping of Thalamic Neuronal Activity Is Modulated by Nigral Inputs and Contributes to Control the Timing of Action Release Julien Catanese and Dieter Jaeger
- 1892 Sleep Analysis in Adult C. elegans Reveals State-Dependent Alteration of Neural and Behavioral Responses Daniel E. Lawler, Yee Lian Chew, Josh D. Hawk, Ahmad Aljobeh, William R. Schafer, and Dirk R. Albrecht
- Prefrontal α7nAChR Signaling Differentially Modulates Afferent Drive and Trace Fear Conditioning Behavior in Adolescent and Adult Rats Anabel M.M. Miguelez Fernández, Hanna M. Molla, Daniel R. Thomases, and Kuei Y. Tseng
- Temporal Prediction Signals for Periodic Sensory Events in the Primate Central **Thalamus**

Kei Matsuyama and Masaki Tanaka

BEHAVIORAL/COGNITIVE

Hypothalamic-Extended Amygdala Circuit Regulates Temporal Discounting Haofang E. Li, Mark A. Rossi, Glenn D.R. Watson, H. Gregory Moore, Min Tong Cai, Namsoo Kim, Katrina A. Vokt, Dongye Lu, Ryan A. Bartholomew, Ryan N. Hughes, and Henry H. Yin

1941 Orbitofrontal State Representations Are Related to Choice Adaptations and Reward Predictions

Thomas A. Stalnaker, Nishika Raheja, and Geoffrey Schoenbaum

1952 FFA and OFA Encode Distinct Types of Face Identity Information

Maria Tsantani, Nikolaus Kriegeskorte, Katherine Storrs, Adrian Lloyd Williams, Carolyn McGettigan, and Lúcia Garrido

1970 Visual Attention Modulates Glutamate-Glutamine Levels in Vestibular Cortex: Evidence from Magnetic Resonance Spectroscopy

Sebastian M. Frank, Lisa Forster, Maja Pawellek, Wilhelm M. Malloni, Sinyeob Ahn, Peter U. Tse, and Mark W. Greenlee

1982 Somatostatin Neurons of the Bed Nucleus of Stria Terminalis Enhance Associative Fear Memory Consolidation in Mice

Biborka Bruzsik, Laszlo Biro, Dora Zelena, Eszter Sipos, Huba Szebik, Klara Rebeka Sarosdi, Orsolya Horvath, Imre Farkas, Veronika Csillag, Cintia Klaudia Finszter, Eva Mikics, and Mate Toth

1996 AMPA and NMDA Receptor Trafficking at Cocaine-Generated Synapses

Yao Q. Wang, Yanhua H. Huang, Saju Balakrishnan, Lidong Liu, Yu Tian Wang, Eric J. Nestler, Oliver M. Schlüter, and Yan Dong

2012 Ventromedial Prefrontal Cortex Drives the Prioritization of Self-Associated Stimuli in Working Memory

Shouhang Yin, Taiyong Bi, Antao Chen, and Tobias Egner

NEUROBIOLOGY OF DISEASE

2024 Disease Modeling with Human Neurons Reveals LMNB1 Dysregulation Underlying DYT1 Dystonia

Baojin Ding, Yu Tang, Shuaipeng Ma, Masuma Akter, Meng-Lu Liu, Tong Zang, and Chun-Li Zhang

2039 Striatal Afferent BDNF is Disrupted by Synucleinopathy and Partially Restored by STN DBS

Kathryn M. Miller, Joseph R. Patterson, Joseph Kochmanski, Christopher J. Kemp, Anna C. Stoll, Christopher U. Onyekpe, Allyson Cole-Strauss, Kathy Steece-Collier, Jacob W. Howe, Kelvin C. Luk, and Caryl E. Sortwell

2053 A New Mouse Model Related to SCA14 Carrying a Pseudosubstrate Domain Mutation in PKCy Shows Perturbed Purkinje Cell Maturation and Ataxic Motor Behavior Etsuko Shimobayashi and Josef P. Kapfhammer

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