This Week in The Journal

Research Articles

CELLULAR/MOLECULAR

1281 Spontaneous Activity of the Local GABAergic Synaptic Network Causes Irregular Neuronal Firing in the External Globus Pallidus
James A. Jones, Matthew H. Higgs, Erick Olivares, Jacob Peña, and Charles J. Wilson

DEVELOPMENT/PLASTICITY/REPAIR

1310 Postsynaptic NMDA Receptor Expression Is Required for Visual Corticocollicular Projection Refinement in the Mouse Superior Colliculus
Kristy O. Johnson, Leeor Harel, and Jason W. Triplett

SYSTEMS/CIRCUITS

1334 Excitatory Projections from the Prefrontal Cortex to Nucleus Accumbens Core D1-MSNs and κ Opioid Receptor Modulate Itch-Related Scratching Behaviors
Xiao-Bo Wu, Qian Zhu, Ming-Hui Gao, Sheng-Xiang Yan, Pan-Yang Gu, Peng-Fei Zhang, Meng-Lin Xu, and Yong-Jing Gao

Cover legend: This image shows parvalbumin (yellow), β-catenin (red), and DAPI (blue) in an APC cKO mouse. In their article, Ryner et al. show that the maturation and survival of parvalbumin interneurons are disrupted in a model of early life epilepsy, known as infantile spasms. Inhibitory circuits are prominently shaped by development, so early life seizures may disrupt parvalbumin interneuron maturation. Conversely, inhibitory circuit dysfunction may contribute to seizure initiation, creating a potentially vicious cycle. By combining genetic models of infantile spasms, with anatomical and electrophysiological approaches, the authors shed new light on potential mechanisms of pathogenesis in a model of devastating early life epilepsy. For more information, see the article by Ryner et al. (pages 1422–1440). Cover image: Rachael Ryner and Mary Sommer.
Mechanisms Underlying the Recruitment of Inhibitory Interneurons in Fictive Swimming in Developing *Xenopus laevis* Tadpoles
Andrea Ferracio, Valentina Saccomanno, Hong Yan Zhang, Roman Borisuyk, and Wen-Chang Li

Rapid Processing of Invisible Fearful Faces in the Human Amygdala
Yingying Wang, Lu Luo, Guanpeng Chen, Guoming Luan, Xiongfei Wang, Qian Wang, and Fang Fang

Linking Impulsivity to Activity Levels in Pre-Supplementary Motor Area during Sequential Gambling
Allan Lohse, Annemette Løkkegaard, Hartwig R. Siebner, and David Meder

Cortical Parvalbumin-Positive Interneuron Development and Function Are Altered in the APC Conditional Knockout Mouse Model of Infantile and Epileptic Spasms Syndrome
Rachael F. Ryner, Isabel D. Derera, Moritz Armbruster, Anar Kansara, Mary E. Sommer, Antonella Pirone, Farzad Noubari, Michele Jacob, and Chris G. Dulla

A Gating Mutation in Ryanodine Receptor Type 2 Rescues Phenotypes of Alzheimer’s Disease Mouse Models by Upregulating Neuronal Autophagy
Hua Zhang, Caitlynn Knight, S.R. Wayne Chen, and Ilya Bezprozvanny

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