Research Articles

CELLULAR/MOLECULAR

4958 Microglial Tmem59 Deficiency Impairs Phagocytosis of Synapse and Leads to Autism-Like Behaviors in Mice
Jian Meng, Linkun Han, Naizhen Zheng, Ting Wang, Hui Xu, Yiru Jiang, Zijie Wang, Zhaoji Liu, Quyang Zheng, Xian Zhang, Hong Luo, Dan Can, Jinsheng Lu, Huaxi Xu, and Yun-wu Zhang

4980 Role of Voltage-Gated K⁺ Channels and K2P Channels in Intrinsic Electrophysiological Properties and Saltatory Conduction at Nodes of Ranvier of Rat Lumbar Spinal Ventral Nerves
Sotatsu Tonomura and Jianguo G. Gu

DEVELOPMENT/PLASTICITY/REPAIR

4995 Understanding the Influence of Target Acquisition on Survival, Integration, and Phenotypic Maturation of Dopamine Neurons within Stem Cell-Derived Neural Grafts in a Parkinson’s Disease Model
Niamh Moriarty, Jessica A. Kauhausen, Chiara Pavan, Cameron P.J. Hunt, Isabelle R. de Luzy, Vanessa Penna, Charlotte M. Ermine, Lachlan H. Thompson, and Clare L. Parish

SYSTEMS/CIRCUITS

5007 Learned Motor Patterns Are Replayed in Human Motor Cortex during Sleep
Daniel B. Rubin, Tommy Hosman, Jessica N. Kelemen, Anastasia Kapitonava, Francis R. Willett, Brian F. Coughlin, Eric Halgren, Eyal Y. Kimchi, Ziv M. Williams, John D. Simeral, Leigh R. Hochberg, and Sydney S. Cash

5021 Whole-Brain Wiring Diagram of Oxytocin System in Adult Mice
Seoyoung Son, Steffy B. Manjilla, Kyra T. Newmaster, Yuan-ting Wu, Daniel J. Vanselow, Matt Ciarletta, Todd E. Anthony, Keith C. Cheng, and Yongsoo Kim

BEHAVIORAL/COGNITIVE

5034 Gamma Activation and Alpha Suppression within Human Auditory Cortex during a Speech Classification Task
Kirill V. Nourski, Mitchell Steinschneider, Ariane E. Rhone, Christopher K. Kovach, Hiroto Kawasaki, and Matthew A. Howard III

Cover legend: This image shows the distribution of oxytocin protein (green) and oxytocin receptor (magenta) in a section of mouse brain. Quantitative comparison of the two labels found no significant correlation across the whole brain, suggesting abundant indirect oxytocin signaling in oxytocin-receptor-expressing areas. For more information, see the article by Son et al. (pages 5021–5033). Cover image: Yongsoo Kim Lab at Pennsylvania State University.
Cortico-Striatal Activity Characterizes Human Safety Learning via Pavlovian Conditioned Inhibition
Patrick A.F. Laing, Trevor Steward, Christopher G. Davey, Kim L. Felmingham, Miguel Angel Fullana, Bram Vervliet, Matthew D. Greaves, Bradford Moffat, Rebecca K. Clarin, and Ben J. Harrison

Spontaneous Alpha-Band Oscillations Bias Subjective Contrast Perception
Elio Balestrieri and Niko A. Busch

The Role of Visual Experience in Individual Differences of Brain Connectivity
Sriparna Sen, Nanak Nihal Khalsa, Ningcong Tong, Smadar Ovadia-Caro, Xiaoying Wang, Yanhao Bi, and Ella Striem-Amit

Disruption of Endosomal Sorting in Schwann Cells Leads to Defective Myelination and Endosomal Abnormalities Observed in Charcot-Marie-Tooth Disease
John W. McLean, Julie A. Wilson, Tina Tian, Jennifer A. Watson, Mary VanHart, Andrew J. Bean, Steven S. Scherer, David K. Crossman, Eroboghene Ubogu, and Scott M. Wilson

Calpain-2 Mediates MBNL2 Degradation and a Developmental RNA Processing Program in Neurodegeneration
Lee-Hsin Wang, Chien-Yu Lin, Yu-Mei Lin, Luc Buée, Nicolas Sergeant, David Blum, Yijuang Chern, and Guey-Shin Wang

A Computational Probe into the Behavioral and Neural Markers of Atypical Facial Emotion Processing in Autism
Kohitij Kar


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