This Week in The Journal

Celebrating 40 Years of JNeurosci

PROGRESSIONS

How Postdoctoral Research in Paul Greengard’s Laboratory Shaped My Scientific Career, Although I Never Did Another Phosphorylation Assay
Annette C. Dolphin

Viewpoints

Does the Prefrontal Cortex Play an Essential Role in Consciousness? Insights from Intracranial Electrical Stimulation of the Human Brain
Omri Raccah, Ned Block, and Kieran C.R. Fox

Journal Club

Emerging Role of Astrocytes in Striatal Synaptic Plasticity
Shenyu Zhai

Research Articles

CELLULAR/MOLECULAR

Kv4.3 Channel Dysfunction Contributes to Trigeminal Neuropathic Pain Manifested with Orofacial Cold Hypersensitivity in Rats
Hirosato Kanda, Jennifer Ling, Ya-Ting Chang, Ferhat Erol, Viacheslav Viatchenko-Karpinski, Akihiro Yamada, Koichi Noguchi, and Jianguo G. Gu

Exacerbation of Epilepsy by Astrocyte Alkalization and Gap Junction Uncoupling
Mariko Onodera, Jan Meyer, Kota Furukawa, Yuichi Hiraoka, Tomomi Aida, Kohichi Tanaka, Kenji F. Tanaka, Christine R. Rose, and Ko Matsui

Palmitoylation Controls NMDA Receptor Function and Steroid Sensitivity
Pavla Hubalkova, Marek Ladislav, Vojtech Vyklicky, Tereza Smejkalova, Barbora Hrcka Krausova, Bohdan Kysilov, Jan Krusek, Zaneta Naimová, Miloslav Korinek, Hana Chodounská, Eva Kudova, Jiri Cerny, and Ladislav Vyklický Jr

DEVELOPMENT/PLASTICITY/REPAIR

Brief Sensory Deprivation Triggers Cell Type-Specific Structural and Functional Plasticity in Olfactory Bulb Neurons
Elisa Galliano, Christiane Hahn, Lorcan P. Browne, Paula R. Villamayor, Candida Tufo, Andres Crespo, and Matthew S. Grubb
An Anticipatory Circuit Modification That Modifies Subsequent Task Switching
Yanqing Wang, Michael A. Barry, Monica Cambi, Klaudiusz R. Weiss, and Elizabeth C. Cropper

Parallel Synaptic Acetylcholine Signals Facilitate Large Monopolar Cell Repolarization and Modulate Visual Behavior in Drosophila
Jinglin Wu, Xiaoxiao Ji, Qiuxiang Gu, Buxin Liao, Wei Dong, and Junhai Han

The Neurophysiological Representation of Imagined Somatosensory Percepts in Human Cortex

Lists with and without Syntax: A New Approach to Measuring the Neural Processing of Syntax
Ryan Law and Liina Pylkkänen

Cross-Hemispheric Complementary Prefrontal Mechanisms during Task Switching under Perceptual Uncertainty
Kaho Tsumura, Ryuta Aoki, Masaki Takeda, Kiyoshi Nakahara, and Koji Jimura

Roles of the Default Mode and Multiple-Demand Networks in Naturalistic versus Symbolic Decisions
Verity Smith, John Duncan, and Daniel J. Mitchell

Overlooked Tertiary Sulci Serve as a Meso-Scale Link between Microstructural and Functional Properties of Human Lateral Prefrontal Cortex
Jacob A. Miller, Willa I. Voorhies, Daniel J. Lurie, Mark D’Esposito, and Kevin S. Weiner

Heparanome-Mediated Rescue of Oligodendrocyte Progenitor Quiescence following Inflammatory Demyelination
Darpan Saraswat, R. Ross Welliver, Roopa Ravichandar, Ajai Tripathi, Jessie J. Polanco, Jacqueline Broome, Edward Hurley, Ranjan Dutta, M. Laura Feltri, and Fraser J. Sim

α-Synuclein Oligomers Induce Glutamate Release from Astrocytes and Excessive Extrasynaptic NMDAR Activity in Neurons, Thus Contributing to Synapse Loss
Dorit Trudler, Sara Sanz-Blasco, Yvonne S. Eisele, Swagata Ghatak, Karthik Bodhinathan, Mohd Waseem Akhtar, William P. Lynch, Juan C. Piña-Crespo, Maria Talantova, Jeffery W. Kelly, and Stuart A. Lipton

Parkinsonism Alters Beta Burst Dynamics across the Basal Ganglia–Motor Cortical Network

Gemfibrozil Protects Dopaminergic Neurons in a Mouse Model of Parkinson’s Disease via PPARE-Dependent Astrocytic GDNF Pathway
Carl G. Gottschalk, Malabendu Jana, Avik Roy, Dhruv R. Patel, and Kalipada Pahan