This Week in The Journal

Journal Club

1597 Top-Down Influences of Spatial Attention in Visual Cortex
Seth E. Bouvier

Brief Communications

1608 Disruption of Fibroblast Growth Factor Receptor Signaling in Nonmyelinating Schwann Cells Causes Sensory Axonal Neuropathy and Impairment of Thermal Pain Sensitivity
Miki Furusho, Jeffrey L. Dupree, Melissa Bryant, and Rashmi Bansal

1855 Altered Sensitivity to Rewarding and Aversive Drugs in Mice with Inducible Disruption of cAMP Response Element-Binding Protein Function within the Nucleus Accumbens

Articles

CELLULAR/MOLECULAR

1626 Probing Protein Packing Surrounding the Residues in and Flanking the Nicotinic Acetylcholine Receptor M2M3 Loop
Roger Ernest Wiltfong and Michaela Jansen

1743 Astrocytic Plasticity and Patterned Oxytocin Neuronal Activity: Dynamic Interactions
Yu-Feng Wang and Glenn I. Hatton

1755 Changes in Expression and Function of Extrasynaptic GABAA Receptors in the Rat Hippocampus during Pregnancy and after Delivery
Enrico Sanna, Maria Cristina Mostallino, Luca Murru, Mario Carta, Giuseppe Talani, Stefano Zucca, Maria Luisa Mura, Elisabetta Maciocco, and Giovanni Biggio

1773 Pharmacological Inhibition of mTORC1 Suppresses Anatomical, Cellular, and Behavioral Abnormalities in Neural-Specific Pten Knock-Out Mice
Jing Zhou, Jacqueline Blundell, Shiori Ogawa, Chang-Hyuk Kwon, Wei Zhang, Christopher Sinton, Craig M. Powell, and Luis F. Parada

DEVELOPMENT/PLASTICITY/REPAIR

1599 Developmental Regulation of Sensory Neurite Growth by the Tumor Necrosis Factor Superfamily Member LGIT
Núria Gavalda, Humberto Gutierrez, and Alun M. Davies

1636 Sensitization of Cutaneous Nociceptors after Nerve Transection and Regeneration: Possible Role of Target-Derived Neurotrophic Factor Signaling
Michael P. Jankowski, Jeffrey J. Lawson, Sabrina L. McIlwrath, Kristofer K. Rau, Collene E. Anderson, Kathryn M. Albers, and H. Richard Koerber
In Vivo Voltage-Sensitive Dye Imaging in Adult Mice Reveals That Somatosensory Maps Lost to Stroke Are Replaced over Weeks by New Structural and Functional Circuits with Prolonged Modes of Activation within Both the Peri-Infarct Zone and Distant Sites
Craig E. Brown, Khatereh Aminoltejari, Heidi Erb, Ian R. Winship, and Timothy H. Murphy

Prolactin Prevents Chronic Stress-Induced Decrease of Adult Hippocampal Neurogenesis and Promotes Neuronal Fate
Luz Torner, Sandra Karg, Annegret Blume, Mahesh Kandasamy, Hans-Georg Kuhn, Jürgen Winkler, Ludwig Aigner, and Inga D. Neumann

Pten Deletion in Adult Neural Stem/Progenitor Cells Enhances Constitutive Neurogenesis
Caroline Gregorian, Jonathan Nakashima, Janel Le Belle, John Ohab, Rachel Kim, Annie Liu, Kate Barzan Smith, Matthias Groszer, A. Denise Garcia, Michael V. Sofroniew, S. Thomas Carmichael, Harley I. Kornblum, Xin Liu, and Hong Wu

Endo da min Diversity in the Drosophila Dscam and Its Roles in Neuronal Morphogenesis
Hung-Hsiang Yu, Jacob S. Yang, Jian Wang, Yaling Huang, and Tzumin Lee

Neural Activity Associated with the Passive Prediction of Ambiguity and Risk for Aversive Events
Dominik R. Bach, Ben Seymour, and Raymond J. Dolan

Population Encoding by Circadian Clock Neurons Organizes Circadian Behavior
Christopher M. Ciarleglio, Karen L. Gamble, John C. Axley, Benjamin R. Strauss, Jeremiah Y. Cohen, Christopher S. Colwell, and Douglas G. McMahon

Adaptive Estimation of Three-Dimensional Structure in the Human Brain
Tim J. Preston, Zoe Kourtzi, and Andrew E. Welchman

Dynamic and Task-Dependent Encoding of Speech and Voice by Phase Reorganization of Cortical Oscillations
Milene Bonte, Giancarlo Valente, and Elia Formisano

Oxidative Neuroenergetics in Event-Related Paradigms
Basavaraju G. Sanganahalli, Peter Herman, Hal Blumenfeld, and Fahmeed Hyder

Synaptic Overflow of Dopamine in the Nucleus Accumbens Arises from Neuronal Activity in the Ventral Tegmental Area
Leslie A. Sombers, Manna Beyene, Regina M. Carelli, and R. Mark Wightman

Neural Correlates of Overcoming Interference from Instructed and Implemented Stimulus–Response Associations
Marcel Brass, Dorit Wenke, Stephanie Spengler, and Florian Waszak

Effects of Sustained Spatial Attention in the Human Lateral Geniculate Nucleus and Superior Colliculus
Keith A. Schneider and Sabine Kastner

Hippocampal and Cognitive Aging across the Lifespan: A Bioenergetic Shift Precedes and Increased Cholesterol Trafficking Parallels Memory Impairment
Inga Kadish, Olivier Thibault, Eric M. Blalock, Kuey-C. Chen, John C. Gant, Nada M. Porter, and Phillip W. Landfield

Following One’s Heart: Cardiac Rhythms Gate Central Initiation of Sympathetic Reflexes
Marcus A. Gray, Karin Rylander, Neil A. Harrison, B. Gunnar Wallin, and Hugo D. Critchley
1834 **Slow Conductances Could Underlie Intrinsic Phase-Maintaining Properties of Isolated Lobster (Panulirus interruptus) Pyloric Neurons**
Scott L. Hooper, Einat Buchman, Adam L. Weaver, Jeffrey B. Thuma, and Kevin H. Hobbs

1846 **Induction of Toll-Like Receptor 9 Signaling as a Method for Ameliorating Alzheimer’s Disease-Related Pathology**

1897 **Viral Vector-Mediated Overexpression of Estrogen Receptor-α in Striatum Enhances the Estradiol-Induced Motor Activity in Female Rats and Estradiol-Modulated GABA Release**
Kristin N. Schultz, Silke A. von Esenwein, Ming Hu, Amy L. Bennett, Robert T. Kennedy, Sergei Musatov, C. Dominique Toran-Allerand, Michael G. Kaplitt, Larry J. Young, and Jill B. Becker

1915 **Stability of Output Effects from Motor Cortex to Forelimb Muscles in Primates**
Darcy M. Griffin, Heather M. Hudson, Abderraouf Belhaj-Saïf, and Paul D. Cheney

1928 **Hand Orientation during Reach-to-Grasp Movements Modulates Neuronal Activity in the Medial Posterior Parietal Area V6A**
Patrizia Fattori, Rossella Breveglieri, Nicoletta Marzocchi, Daniela Filippini, Annalisa Bosco, and Claudio Galletti

1937 **Role of p11 in Cellular and Behavioral Effects of 5-HT4 Receptor Stimulation**
Jennifer L. Warner-Schmidt, Marc Flajolet, Abigail Maller, Emily Y. Chen, Hongshi Qi, Per Svenningsson, and Paul Greengard

**NEUROBIOLOGY OF DISEASE**

1615 **Genetic Enhancement of Thalamocortical Network Activity by Elevating α1G-Mediated Low-Voltage-Activated Calcium Current Induces Pure Absence Epilepsy**
Wayne L. Ernst, Yi Zhang, Jong W. Yoo, Sara J. Ernst, and Jeffrey L. Noebels

1657 **Involvement of TRPC Channels in CCL2-Mediated Neuroprotection against Tat Toxicity**
Honghong Yao, Fuwang Peng, Navneet Dhillon, Shannon Callen, Sirosh Bokhari, Lisa Stethno-Bittel, S. Omar Ahmad, John Q. Wang, and Shilpa Buch

1677 **Interaction of Cellular and Network Mechanisms in Spatiotemporal Pattern Formation in Neuronal Networks**
Andrew Bogaard, Jack Parent, Michal Zochowski, and Victoria Booth

1796 **Effects of the Noradrenergic System in Rat White Matter Exposed to Oxygen–Glucose Deprivation In Vitro**
Maria A. Nikolaeva, Sandra Richard, Abdeslam Mouihate, and Peter K. Stys

1860 **Cortical Hubs Revealed by Intrinsic Functional Connectivity: Mapping, Assessment of Stability, and Relation to Alzheimer’s Disease**

1887 **Neuroimaging and Physiological Evidence for Involvement of Glutamatergic Transmission in Regulation of the Striatal Dopaminergic System**
Masaki Tokunaga, Nicholas Seneca, Ryong-Moon Shin, Jun Maeda, Shigeru Obayashi, Takashi Okauchi, Yuji Nagai, Ming-Rong Zhang, Ryuji Nakao, Hiroshi Ito, Robert B. Innis, Christer Halldin, Kazutoshi Suzuki, Makoto Higuchi, and Tetsuya Suhara
**Correction:** In the article “Thermotaxis is a Robust Mechanism for Thermoregulation in *Caenorhabditis elegans* Nematodes” by Daniel Ramot, Bronwyn L. MacInnis, Hau-Chen Lee, and Miriam B. Goodman, which appeared on pages 12546 – 12557 of the November 19, 2008 issue, there was an error in Equation 8. The correct equation is as follows:

\[
\Delta z_i = -\frac{(\partial T/\partial t)\Delta t}{\partial T/\partial z}
\]

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