This Week in The Journal

Journal Club

10621 Novel Probes for G-Protein-Coupled Receptor Signaling
Jill B. Jensen and Jane E. Lauckner

Mini-Reviews

10623 Neuronal Polarity
Mary E. Hatten

10624 mPar6α Controls Neuronal Migration
David J. Solecki, Eve-Ellen Govek, and Mary E. Hatten

10626 Signaling Networks in Neuronal Polarization
Takeshi Yoshimura, Nariko Arimura, and Kozo Kaibuchi

10631 The Secretory Pathway and Neuron Polarization
Bing Ye, Ye W. Zhang, Lily Yeh Jan, and Yuh Nung Jan

10633 Regulators of Rho GTPases in Neuronal Development
Mitsuko Watabe-Uchida, Eve-Ellen Govek, and Linda Van Aelst

Brief Communications

10808 Blockade of Adenosine A<sub>2A</sub> Receptors Prevents Protein Phosphorylation in the Striatum Induced by Cortical Stimulation
César Quiroz, Catarina Gomes, Arlene C. Pak, Joaquim A. Ribeiro, Steven R. Goldberg, Bruce T. Hope, and Sergi Ferré

10879 Pain Processing Is Faster than Tactile Processing in the Human Brain
Markus Ploner, Joachim Gross, Lars Timmermann, and Alfons Schnitzler

10883 Near-Optimal Human Adaptive Control across Different Noise Environments
Manu Chhabra and Robert A. Jacobs

10911 Dysregulation of Brain-Derived Neurotrophic Factor Expression and Neurosecretory Function in Mecp2 Null Mice
Hong Wang, Shyue-an Chan, Michael Ogier, David Hellard, Qifang Wang, Corey Smith, and David M. Katz
**Articles**

**CELLULAR/MOLECULAR**

10658 The Orexin OX1 Receptor Regulates Ca\(^{2+}\) Entry via Diacylglycerol-Activated Channels in Differentiated Neuroblastoma Cells
Johnny Näsmann, Genevieve Bart, Kim Larsson, Lauri Louhivuori, Hanna Peltonen, and Karl E. O. Åkerman

10677 Switching of Ca\(^{2+}\)-Dependent Inactivation of Ca\(_{v}1.3\) Channels by Calcium Binding Proteins of Auditory Hair Cells
Philemon S. Yang, Badr A. Alseikhan, Hakim Hiel, Lisa Grant, Masayuki X. Mori, Wanjun Yang, Paul A. Fuchs, and David T. Yue

10690 Alternative Splicing of the Ca\(_{v}1.3\) Channel IQ Domain, a Molecular Switch for Ca\(^{2+}\)-Dependent Inactivation within Auditory Hair Cells
Yiru Shen, Dejie Yu, Hakim Hiel, Ping Liao, David T. Yue, Paul A. Fuchs, and Tuck Wah Soong

10717 Identified Motoneurons Involved in Sexual and Eliminative Functions in the Rat Are Powerfully Excited by Vasopressin and Tachykinins
Roch Ogier, Eliane Tribollet, Philippe Suarez, and Mario Raggenbass

10777 Stereociliary Myosin-1c Receptors Are Sensitive to Calcium Chelation and Absent from Cadherin 23 Mutant Mice
Kelli R. Phillips, Song Tong, Richard Goodyear, Guy P. Richardson, and Janet L. Cyr

10888 Polysialylated Neural Cell Adhesion Molecule Is Involved in Induction of Long-Term Potentiation and Memory Acquisition and Consolidation in a Fear-Conditioning Paradigm
Oleg Senkov, Mu Sun, Birgit Weinhold, Rita Gerardy-Schahn, Melitta Schachner, and Alexander Dityatev

10899 Permeant Ion Effects on External Mg\(^{2+}\) Block of NR1/2D NMDA Receptors
Anqi Qian and Jon W. Johnson

10916 Inositol 1,4,5-Trisphosphate Receptor Type 1 in Granule Cells, Not in Purkinje Cells, Regulates the Dendritic Morphology of Purkinje Cells through Brain-Derived Neurotrophic Factor Production
Chihiro Hisatsune, Yukiko Kuroda, Takumi Akagi, Takashi Torashima, Hirokazu Hirai, Tsutomu Hashikawa, Takafuli Inoue, and Katsuhiko Mikoshiba

**DEVELOPMENT/PLASTICITY/REPAIR**

10796 Presynaptic Kainate Receptor Activation Is a Novel Mechanism for Target Cell-Specific Short-Term Facilitation at Schaffer Collateral Synapses
Hua Yu Sun and Lynn E. Dobrunz

10813 Formation of Presynaptic Terminals at Predefined Sites along Axons
Shasta L. Sabo, Raquel A. Gomes, and A. Kimberley McAllister

10856 Chondroitinase ABC Promotes Sprouting of Intact and Injured Spinal Systems after Spinal Cord Injury
A. W. Barritt, M. Davies, F. Marchand, R. Hartley, J. Grist, P. Yip, S. B. McMahon, and E. J. Bradbury

10868 Role of Bone Morphogenetic Protein 2 in Retinal Patterning and Retinotectal Projection
Hiraki Sakuta, Hiroo Takahashi, Takafumi Shintani, Kazuma Etani, Akihiro Aoshina, and Masaharu Noda
BEHAVIORAL/SYSTEMS/COGNITIVE

10667  **Nursing-Induced Somatosensory Cortex Plasticity: Temporally Decoupled Changes in Neuronal Receptive Field Properties Are Accompanied by Modifications in Activity-Dependent Protein Expression**
Céline Rosselet, Yoh’i Zennou-Azogui, and Christian Xerri

10709  **Interleukin-6 Facilitates Lipopolysaccharide-Induced Disruption in Working Memory and Expression of Other Proinflammatory Cytokines in Hippocampal Neuronal Cell Layers**
Nathan L. Sparkman, Jessica B. Buchanan, Jonathan R. R. Heyen, Jing Chen, James L. Beverly, and Rodney W. Johnson

10727  **Methodological Considerations on the Use of Template Matching to Study Long-Lasting Memory Trace Replay**
Masami Tatsuno, Peter Lipa, and Bruce L. McNaughton

10743  **Neuromechanics of Multifunctionality during Rejection in Aplysia californica**
Hui Ye, Douglas W. Morton, and Hillel J. Chiel

10789  **Variations in the Human Pain Stress Experience Mediated by Ventral and Dorsal Basal Ganglia Dopamine Activity**
David J. Scott, Mary M. Heitzeg, Robert A. Koepppe, Christian S. Stohler, and Jon-Kar Zubieta

10826  **Spatial and Temporal Properties of Cone Signals in Alert Macaque Primary Visual Cortex**
Bevil R. Conway and Margaret S. Livingstone

10847  **Bladder Overactivity and Hyperexcitability of Bladder Afferent Neurons after Intrathecal Delivery of Nerve Growth Factor in Rats**
Naoki Yoshimura, Nelson E. Bennett, Yukio Hayashi, Teruyuki Ogawa, Osamu Nishizawa, Michael B. Chancellor, William C. de Groat, and Satoshi Seki

10925  **Imaging Dedicated and Multifunctional Neural Circuits Generating Distinct Behaviors**
Kevin L. Briggsman and William B. Kristan Jr

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10636  **Tau Nitration Occurs at Tyrosine 29 in the Fibrillar Lesions of Alzheimer’s Disease and Other Tauopathies**
Matthew R. Reynolds, Juan F. Reyes, Yifan Fu, Eileen H. Bigio, Angela L. Guillozet-Bongaarts, Robert W. Berry, and Lester I. Binder

10646  **Trigeminal Neuropathic Pain Alters Responses in CNS Circuits to Mechanical (Brush) and Thermal (Cold and Heat) Stimuli**
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10700  **Neural Basis of Dyslexia: A Comparison between Dyslexic and Nondyslexic Children Equated for Reading Ability**

10756  **GABAergic Synaptic Inhibition Is Reduced before Seizure Onset in a Genetic Model of Cortical Malformation**
Stacey A. Trotter, Jaideep Kapur, Matthew J. Anzivino, and Kevin S. Lee
Subthalamic Stimulation-Induced Forelimb Dyskinesias Are Linked to an Increase in Glutamate Levels in the Substantia Nigra Pars Reticulata

Sabrina Boulet, Emilie Lacombe, Carole Carcenac, Claude Feuerstein, Véronique Sgambato-Faure, Annie Poupard, and Marc Savasta

Erratum: In the feature This Week in the Journal for the October 4, 2006 issue, there was a typo in the last sentence of the Cellular/Molecular summary, titled “PSD-95 and Dendritic Branching In Vitro.” The last sentence should have read as follows: “Thus, it appears that PSD-95 can act as a stop signal for dendrite outgrowth and branching by a process that is activity independent.”

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