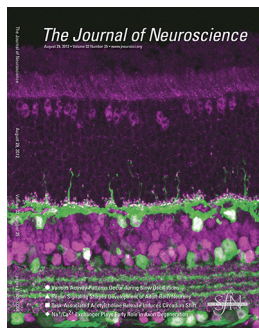


The Journal of Neuroscience

August 29, 2012 • Volume 32 Number 35 • www.jneurosci.org



Cover legend: Micrograph showing a vertical section through a mouse retina lacking CAST. Horizontal cells, labeled with Calbindin antibodies (green), sprout abnormally into the outer nuclear layer and contact ectopic ribbon synapses stained for RIBEYE (magenta). Labeling of the transcription factor CtBP2 (also magenta) reveals orientation in the retina. For more information, see the article by tom Dieck et al. (pages 12192–12203).

i This Week in The Journal

Articles

CELLULAR/MOLECULAR

- 11905 GSK3 β /Axin-1/ β -Catenin Complex Is Involved in Semaphorin3A Signaling**
Tomonobu Hida, Naoya Yamashita, Hiroshi Usui, Fumio Nakamura, Yukio Sasaki, Akira Kikuchi, and Yoshio Goshima
- 11919 Adaptor Protein APPL1 Couples Synaptic NMDA Receptor with Neuronal Prosurvival Phosphatidylinositol 3-Kinase/Akt Pathway**
Yu-bin Wang, Jie-jie Wang, Shao-hua Wang, Shuang-Shuang Liu, Jing-yuan Cao, Xiao-ming Li, Shuang Qiu, and Jian-hong Luo
- 11930 p300/CBP-Associated Factor Selectively Regulates the Extinction of Conditioned Fear**
Wei Wei, Carlos M. Coelho, Xiang Li, Roger Marek, Shanzhi Yan, Shawn Anderson, David Meyers, Chandrani Mukherjee, Gianluca Sbardella, Sabrina Castellano, Ciro Milite, Dante Rotili, Antonello Mai, Philip A. Cole, Pankaj Sah, Michael S. Kobor, and Timothy W. Bredy
- 11942 The C-Type Natriuretic Peptide Induces Thermal Hyperalgesia through a Noncanonical G $\beta\gamma$ -dependent Modulation of TRPV1 Channel**
Lipin Loo, Andrew J. Shepherd, Aaron D. Mickle, Ramón A. Lorca, Leonid P. Shutov, Yuriy M. Usachev, and Durga P. Mohapatra
- 12165 Selective Functional Interactions between Excitatory and Inhibitory Cortical Neurons and Differential Contribution to Persistent Activity of the Slow Oscillation**
Babak Tahvildari, Markus Wölfel, Alvaro Duque, and David A. McCormick
- 12192 Deletion of the Presynaptic Scaffold CAST Reduces Active Zone Size in Rod Photoreceptors and Impairs Visual Processing**
Susanne tom Dieck, Dana Specht, Nicola Strenzke, Yamato Hida, Vidhyasankar Krishnamoorthy, Karl-Friedrich Schmidt, Eiji Inoue, Hiroyoshi Ishizaki, Miki Tanaka-Okamoto, Jun Miyoshi, Akari Hagiwara, Johann H. Brandstätter, Siegrid Löwel, Tim Gollisch, Toshihisa Ohtsuka, and Tobias Moser
- 12214 Synapsins Contribute to the Dynamic Spatial Organization of Synaptic Vesicles in an Activity-Dependent Manner**
Eugenio F. Fornasiero, Andrea Raimondi, Fabrizia C. Guarnieri, Marta Orlando, Riccardo Fesce, Fabio Benfenati, and Flavia Valtorta
- 12228 T-Type Calcium Channels Consolidate Tonic Action Potential Output of Thalamic Neurons to Neocortex**
Charlotte Deleuze, François David, Sébastien Béhuret, Gérard Sadoc, Hee-Sup Shin, Victor N. Uebele, John J. Renger, Régis C. Lambert, Nathalie Leresche, and Thierry Bal

DEVELOPMENT/PLASTICITY/REPAIR

- 12051 **Cell-Autonomous Inactivation of the Reelin Pathway Impairs Adult Neurogenesis in the Hippocampus**
Catia M. Teixeira, Michelle M. Kron, Nuria Masachs, Helen Zhang, Diane C. Lagace, Albert Martinez, Isabel Reillo, Xin Duan, Carles Bosch, Lluís Pujadas, Lucas Brunso, Hongjun Song, Amelia J. Eisch, Victor Borrell, Brian W. Howell, Jack M. Parent, and Eduardo Soriano
- 12152 **PEDF Is a Novel Oligodendrogenic Morphogen Acting on the Adult SVZ and Corpus Callosum**
Jiho Sohn, Vimal Selvaraj, Kouji Wakayama, Lori Orosco, Eunyoung Lee, Susan E. Crawford, Fuzheng Guo, Jordan Lang, Makoto Horiuchi, Konstantinos Zarbalis, Takayuki Itoh, Wenbin Deng, and David Pleasure

BEHAVIORAL/SYSTEMS/COGNITIVE

- 11956 **Dynamics of Cortical Neuronal Ensembles Transit from Decision Making to Storage for Later Report**
Adrián Ponce-Alvarez, Verónica Nácher, Rogelio Luna, Alexa Riehle, and Ranulfo Romo
- 11970 **Food Intake Adaptation to Dietary Fat Involves PSA-Dependent Rewiring of the Arcuate Melanocortin System in Mice**
Alexandre Benani, Cécile Hryhorczuk, Alexandra Gouazé, Xavier Fioramonti, Xavier Brenachot, Christophe Guissard, Alice Krezymon, Thibaut Duparc, André Colom, Emmanuelle Nédélec, Caroline Rigault, Aleth Lemoine, Jean Gascuel, Rita Gerardy-Schahn, Philippe Valet, Claude Knauf, Anne Lorsignol, and Luc Pénicaud
- 11980 **Mechanisms of Hippocampal Long-Term Depression Are Required for Memory Enhancement by Novelty Exploration**
Zhifang Dong, Bo Gong, Hongjie Li, Yanrui Bai, Xiaoyan Wu, Yan Huang, Wenting He, Tingyu Li, and Yu Tian Wang
- 12005 **Actin Polymerization-Dependent Increase in Synaptic Arc/Arg3.1 Expression in the Amygdala Is Crucial for the Expression of Aversive Memory Associated with Drug Withdrawal**
Yao Liu, Qi-Xin Zhou, Yuan-Yuan Hou, Bin Lu, Chuan Yu, Jie Chen, Qing-Lan Ling, Jun Cao, Zhi-Qiang Chi, Lin Xu, and Jing-Gen Liu
- 12018 **NMDA Antagonist Ketamine Reduces Task Selectivity in Macaque Dorsolateral Prefrontal Neurons and Impairs Performance of Randomly Interleaved Prosaccades and Antisaccades**
Kevin Skoblenick and Stefan Everling
- 12038 **Selectivity for Three-Dimensional Shape and Grasping-Related Activity in the Macaque Ventral Premotor Cortex**
Tom Theys, Pierpaolo Pani, Johannes van Loon, Jan Goffin, and Peter Janssen
- 12066 **Corticostriatal Connectivity Underlies Individual Differences in the Balance between Habitual and Goal-Directed Action Control**
Sanne de Wit, Poppy Watson, Helga A. Harsay, Michael X. Cohen, Irene van de Vijver, and K. Richard Ridderinkhof
- 12076 **Identification of Functional Circuitry between Retrosplenial and Postrhinal Cortices during Fear Conditioning**
Siobhan Robinson, Caroline E. Poorman, Thomas J. Marder, and David J. Bucci
- 12087 **The Processing of Unexpected Positive Response Outcomes in the Medial Frontal Cortex**
Nicola K. Ferdinand, Axel Mecklinger, Jutta Kray, and William J. Gehring

- 12102 **Coding Rate and Duration of Vocalizations of the Frog, *Xenopus laevis***
Erik Zornik and Ayako Yamaguchi
- 12115 **Time to Pay Attention: Attentional Performance Time-Stamped Prefrontal Cholinergic Activation, Diurnality, and Performance**
Giovanna Paolone, Theresa M. Lee, and Martin Sarter
- 12129 **Red Nucleus Neurons Actively Contribute to the Acquisition of Classically Conditioned Eyelid Responses in Rabbits**
Renny Pacheco-Calderón, Alejandro Carretero-Guillén, José M. Delgado-García, and Agnès Gruart
- 12144 **Neural Correlates of Reactivation and Retrieval-Induced Distortion**
Donna J. Bridge and Ken A. Paller
- 12180 **The Selectivity of Task-Dependent Attention Varies with Surrounding Context**
Yee-Joon Kim (김 이준) and Preeti Verghese
- 12204 **Age-Related Changes in the Neurophysiology of Language in Adults: Relationship to Regional Cortical Thinning and White Matter Microstructure**
Nobuko Kemmotsu, Holly M. Girard, N. Erkut Kucukboyaci, Linda K. McEvoy, Donald J. Hagler Jr, Anders M. Dale, Eric Halgren, and Carrie R. McDonald
- 12237 **Voluntary and Reactive Recruitment of Locomotor Muscle Synergies during Perturbed Walking**
Stacie A. Chvatal and Lena H. Ting
- 12251 **Navigating the Auditory Scene: An Expert Role for the Hippocampus**
Sundeeep Teki, Sukhbinder Kumar, Katharina von Kriegstein, Lauren Stewart, C. Rebecca Lyness, Brian C. J. Moore, Brian Capleton, and Timothy D. Griffiths
- 12258 **Parietal Influence on Temporal Encoding Indexed by Simultaneous Transcranial Magnetic Stimulation and Electroencephalography**
Martin Wiener, Dasha Kliot, Peter E. Turkeltaub, Roy H. Hamilton, David A. Wolk, and H. Branch Coslett
- 12268 **A Precluding But Not Ensuring Role of Entrained Low-Frequency Oscillations for Auditory Perception**
Benedict Shien Wei Ng, Tim Schroeder, and Christoph Kayser
- 12277 **Top-Down Processing of Symbolic Meanings Modulates the Visual Word Form Area**
Yiying Song, Moqian Tian, and Jia Liu
- 12284 **Suppressive Surrounds of Receptive Fields In Monkey Frontal Eye Field**
James Cavanaugh, Wilsaan M. Joiner, and Robert H. Wurtz
- 12294 **Attention Distributed across Sensory Modalities Enhances Perceptual Performance**
Jyoti Mishra and Adam Gazzaley

NEUROBIOLOGY OF DISEASE

- 11991 **Cholinergic Dysfunction Alters Synaptic Integration between Thalamostriatal and Corticostriatal Inputs in DYT1 Dystonia**
Giuseppe Sciamanna, Annalisa Tassone, Georgia Mandolesi, Francesca Puglisi, Giulia Ponterio, Giuseppina Martella, Graziella Madeo, Giorgio Bernardi, David G. Standaert, Paola Bonsi, and Antonio Pisani
- 12028 **Focal Increases of Axoplasmic Ca²⁺, Aggregation of Sodium–Calcium Exchanger, N-type Ca²⁺ Channel, and Actin Define the Sites of Spheroids in Axons Undergoing Oxidative Stress**
Anna G. Barsukova, Michael Forte, and Dennis Bourdette

12093 Kainic Acid-Induced Neuronal Degeneration in Hippocampal Pyramidal Neurons Is Driven by Both Intrinsic and Extrinsic Factors: Analysis of FVB/N↔C57BL/6 Chimeras

Li Liu, Kristin M. Hamre, and Dan Goldowitz

12303 Correction: The article “Astrocyte Calcium Signaling Transforms Cholinergic Modulation to Cortical Plasticity *In Vivo*” by Norio Takata, Tsuneko Mishima, Chihiro Hisatsune, Terumi Nagai, Etsuko Ebisui, Katsuhiko Mikoshiba, and Hajime Hirase appeared on pages 18155–18165 of the December 7, 2011 issue. A correction for that article appears on page 12303.

Persons interested in becoming members of the Society for Neuroscience should contact the Membership Department, Society for Neuroscience, 1121 14th St., NW, Suite 1010, Washington, DC 20005, phone 202-962-4000.

Instructions for Authors are available at <http://www.jneurosci.org/misc/itoa.shtml>. Authors should refer to these Instructions online for recent changes that are made periodically.

Brief Communications Instructions for Authors are available via Internet (http://www.jneurosci.org/misc/ifa_bc.shtml).

Submissions should be submitted online using the following url: <http://jneurosci.msubmit.net>. Please contact the Central Office, via phone, fax, or e-mail with any questions. Our contact information is as follows: phone, 202-962-4000; fax, 202-962-4945; e-mail, jn@sfn.org.