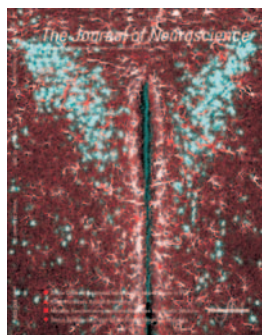


# The Journal of Neuroscience

September 10, 2008 • Volume 28 Number 37 www.jneurosci.org



**Cover legend:** Double immunostaining showing Fos-positive neurons (blue) in the paraventricular nucleus area and nearby reactive microglia (anti-IBA1; brown) after acute ablation of AgRP neurons located in the arcuate nucleus of hypothalamus. For more information, see the article by Wu et al. in this issue (pages 9218–9226).

## i This Week in The Journal

### Toolbox

- 9083 **Specificity of Immunoreactions: The Importance of Testing Specificity in Each Method**  
Andrea Lorincz and Zoltan Nusser

### Journal Club

- 9087 **Anxious to Drink: Gabapentin Normalizes GABAergic Transmission in the Central Amygdala and Reduces Symptoms of Ethanol Dependence**  
Kelly J. Clemens and Leandro F. Vendruscolo
- 9090 **Saccadic Eye Movements Illuminate Chronometry of Perceptual Localization**  
Florian Ostendorf

### Brief Communications

- 9111 **Presynaptic Type III Neuregulin 1 Is Required for Sustained Enhancement of Hippocampal Transmission by Nicotine and for Axonal Targeting of  $\alpha 7$  Nicotinic Acetylcholine Receptors**  
Chongbo Zhong, Chuang Du, Melissa Hancock, Marjolijn Mertz, David A. Talmage, and Lorna W. Role
- 9117 **Role of RhoA in Activity-Dependent Cortical Axon Branching**  
Soichiro Ohnami, Mitsuharu Endo, Satoshi Hirai, Naofumi Uesaka, Yumiko Hatanaka, Toshihide Yamashita, and Nobuhiko Yamamoto
- 9145 **Chip Is Required for Posteclosion Behavior in *Drosophila***  
Padmanabhan Hari, Mugdha Deshpande, Neha Sharma, Neha Rajadhyaksha, Nitya Ramkumar, Ken-ichi Kimura, Veronica Rodrigues, and Shubha Tole
- 9271 **Serotonin Hyperinnervation Abolishes Seizure Susceptibility in *Otx2* Conditional Mutant Mice**  
Prem Prakash Tripathi, Luca Giovanni Di Giovannantonio, Alessandro Viegi, Wolfgang Wurst, Antonio Simeone, and Yuri Bozzi

### Articles

#### CELLULAR/MOLECULAR

- 9092 **Mechanism and Time Course of Cocaine-Induced Long-Term Potentiation in the Ventral Tegmental Area**  
Emanuela Argilli, David R. Sibley, Robert C. Malenka, Pamela M. England, and Antonello Bonci

- 9122 **Fast Subplasma Membrane Ca<sup>2+</sup> Transients Control Exo-Endocytosis of Synaptic-Like Microvesicles in Astrocytes**  
Julie Marchaland, Corrado Calì, Susan M. Voglmaier, Haiyan Li, Romano Regazzi, Robert H. Edwards, and Paola Bezzi
- 9173 **A Novel Na<sup>+</sup> Channel Splice Form Contributes to the Regulation of an Androgen-Dependent Social Signal**  
He Liu, Ming-ming Wu, and Harold H. Zakon
- 9277 **Identification of a Novel Nurr1-Interacting Protein**  
Yu Luo, Feng Xing, Rita Guiliano, and Howard J. Federoff
- 9297 **Protein Kinase D Regulates Trafficking of Dendritic Membrane Proteins in Developing Neurons**  
Mariano Bisbal, Cecilia Conde, Maribel Donoso, Flavia Bollati, Juliana Sesma, Santiago Quiroga, Alberto Díaz Añel, Vivek Malhotra, Maria Paz Marzolo, and Alfredo Cáceres

#### DEVELOPMENT/PLASTICITY/REPAIR

- 9194 **Noggin Expands Neural Stem Cells in the Adult Hippocampus**  
Michael A. Bonaguidi, Chian-Yu Peng, Tammy McGuire, Gustave Falciglia, Kevin T. Gobeske, Catherine Czeisler, and John A. Kessler
- 9205 **CIC3 Is a Critical Regulator of the Cell Cycle in Normal and Malignant Glial Cells**  
Christa W. Habela, Michelle L. Olsen, and Harald Sontheimer
- 9249 **Altered Sensory Experience Induces Targeted Rewiring of Local Excitatory Connections in Mature Neocortex**  
Claire E. J. Cheetham, Martin S. L. Hammond, Rachael McFarlane, and Gerald T. Finnerty

#### BEHAVIORAL/SYSTEMS/COGNITIVE

- 9101 **Regulation of Synaptic Efficacy in Hypocretin/Orexin-Containing Neurons by Melanin Concentrating Hormone in the Lateral Hypothalamus**  
Yan Rao, Min Lu, Fei Ge, Donald J. Marsh, Su Qian, Alex Hanxiang Wang, Marina R. Picciotto, and Xiao-Bing Gao
- 9151 **Linking the Response Properties of Cells in Auditory Cortex with Network Architecture: Cotuning versus Lateral Inhibition**  
Jaime de la Rocha, Cristina Marchetti, Max Schiff, and Alex D. Reyes
- 9164 **Dynamic Sculpting of Directional Tuning in the Primate Motor Cortex during Three-Dimensional Reaching**  
Hugo Merchant, Thomas Naselaris, and Apostolos P. Georgopoulos
- 9183 **Adaptation of Velocity Encoding in Synaptically Coupled Neurons in the Fly Visual System**  
Julia Kalb, Martin Egelhaaf, and Rafael Kurtz
- 9227 **Behavioral State Regulation of Dendrodendritic Synaptic Inhibition in the Olfactory Bulb**  
Yusuke Tsuno, Hideki Kashiwadani, and Kensaku Mori
- 9239 **Hierarchical Organization of Human Cortical Networks in Health and Schizophrenia**  
Danielle S. Bassett, Edward Bullmore, Beth A. Verchinski, Venkata S. Mattay, Daniel R. Weinberger, and Andreas Meyer-Lindenberg
- 9261 ***In Vivo* Metabotropic Glutamate Receptor 5 (mGluR5) Antagonism Prevents Cocaine-Induced Disruption of Postsynaptically Maintained mGluR5-Dependent Long-Term Depression**  
Brad A. Grueter, Zoe A. McElligott, Alfred J. Robison, Gregory C. Mathews, and Danny G. Winder

- 9309 **Spatiotemporal Profiles of Field Potentials in Mouse Superior Colliculus Analyzed by Multichannel Recording**  
Penphimon Phongphananee, Katsuyuki Kaneda, and Tadashi Isa

NEUROBIOLOGY OF DISEASE

- 9133 **Status Epilepticus Induces a Particular Microglial Activation State Characterized by Enhanced Purinergic Signaling**  
Elena Avignone, Lauriane Ulmann, Françoise Levavasseur, François Rassendren, and Etienne Audinat
- 9218 **Ablation of Neurons Expressing Agouti-Related Protein Activates *Fos* and Gliosis in Postsynaptic Target Regions**  
Qi Wu, Maureen P. Howell, and Richard D. Palmiter
- 9287 **Complete Rescue of Cerebrovascular Function in Aged Alzheimer's Disease Transgenic Mice by Antioxidants and Pioglitazone, a Peroxisome Proliferator-Activated Receptor  $\gamma$  Agonist**  
Nektaria Nicolakakis, Tahar Aboukassim, Brice Ongali, Clotilde Lecrux, Priscilla Fernandes, Pedro Rosa-Neto, Xin-Kang Tong, and Edith Hamel
- 9319 ***Erratum:*** In the article "Magnocellular Pathway Impairment in Schizophrenia: Evidence from Functional Magnetic Resonance Imaging" by Antígona Martínez, Steven A. Hillyard, Elisa C. Dias, Donald J. Hagler Jr, Pamela D. Butler, David N. Guilfoyle, Maria Jalbrzikowski, Gail Silipo, and Daniel C. Javitt, which appeared on pages 7492–7500 of the July 23, 2008 issue, the three plots in Figure 6 were printed with incorrect axis labels. This error affected only the appearance of the figure. Neither the values presented in the text nor the discussion of the results were affected. The correct Figure 6 is printed in this issue.

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](http://www.jneurosci.org/misc/ifa_bc.shtml)).

Submissions should be submitted online using the following url: <http://sfn.manuscriptcentral.com>. 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](mailto:jn@sfn.org).