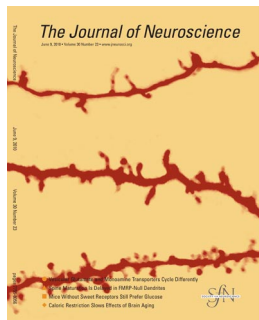


# The Journal of Neuroscience

June 9, 2010 • Volume 30 Number 23 • www.jneurosci.org



**Cover legend:** Dendritic protrusions of layer 2/3 pyramidal neurons imaged with *in vivo* two-photon microscopy at postnatal days 7 (top), 11 (middle), and 21 (bottom) in the intact brains of GFP-expressing mice. For more information, see the article by Cruz-Martín et al. in this issue (pages 7793–7803).

## i This Week in The Journal

### Journal Club

- 7755 **Variability in Brain Activity as an Individual Difference Measure in Neuroscience?**  
Peter N. C. Mohr and Irene E. Nagel
- 7758 **Distinct or Gradually Changing Spatial and Nonspatial Representations along the Dorsoventral Axis of the Hippocampus**  
Michael M. Yartsev

### Brief Communications

- 8042 **Involvement of Spinal Microglial P2X<sub>7</sub> Receptor in Generation of Tolerance to Morphine Analgesia in Rats**  
Dong Zhou, Meng-Ling Chen, Yu-Qiu Zhang, and Zhi-Qi Zhao

### Articles

#### CELLULAR/MOLECULAR

- 7863 **Rab11 Supports Amphetamine-Stimulated Norepinephrine Transporter Trafficking**  
Heinrich J. G. Matthies, Jessica L. Moore, Christine Saunders, Dawn Signor Matthies, Lynne A. Lapierre, James R. Goldenring, Randy D. Blakely, and Aurelio Galli
- 7878 **Ionic Mechanisms Underlying Inflammatory Mediator-Induced Sensitization of Dural Afferents**  
Andrea H. Vaughn and Michael S. Gold
- 7900 **Afferent-Specific AMPA Receptor Subunit Composition and Regulation of Synaptic Plasticity in Midbrain Dopamine Neurons by Abused Drugs**  
Cameron H. Good and Carl R. Lupica
- 7917 **Vesicular Monoamine and Glutamate Transporters Select Distinct Synaptic Vesicle Recycling Pathways**  
Bibiana Onoa, Haiyan Li, Johann A. Gagnon-Bartsch, Laura A. B. Elias, and Robert H. Edwards
- 7993 **Distinct Endocannabinoid Control of GABA Release at Perisomatic and Dendritic Synapses in the Hippocampus**  
Sang-Hun Lee, Csaba Földy, and Ivan Soltesz

#### DEVELOPMENT/PLASTICITY/REPAIR

- 7761 **Role of Chondroitin Sulfate Proteoglycans in Axonal Conduction in Mammalian Spinal Cord**  
Arsen S. Hunanyan, Guillermo García-Alías, Valentina Alessi, Joel M. Levine, James W. Fawcett, Lorne M. Mendell, and Victor L. Arvanian
- 7793 **Delayed Stabilization of Dendritic Spines in Fragile X Mice**  
Alberto Cruz-Martín, Michelle Crespo, and Carlos Portera-Cailliau

- 7804 **Distinct Roles of c-Jun N-Terminal Kinase Isoforms in Neurite Initiation and Elongation during Axonal Regeneration**  
Monia Barnat, Hervé Enslen, Friedrich Propst, Roger J. Davis, Sylvia Soares, and Fatiha Nothias
- 7910 **Early Enriched Environment Promotes Neonatal GABAergic Neurotransmission and Accelerates Synapse Maturation**  
Shan He, Jun Ma, Na Liu, and Xiang Yu
- 7928 **Maturation of “Neocortex Isolé” *In Vivo* in Mice**  
Libing Zhou, David Gall, Yibo Qu, Cynthia Prigogine, Guy Cheron, Fadel Tissir, Serge N. Schiffmann, and Andre M. Goffinet
- 7961 **Notch Activity Levels Control the Balance between Quiescence and Recruitment of Adult Neural Stem Cells**  
Prisca Chapouton, Paulina Skupien, Birgit Hesel, Marion Coolen, John C. Moore, Romain Madelaine, Elizabeth Kremmer, Theresa Faus-Kessler, Patrick Blader, Nathan D. Lawson, and Laure Bally-Cuif

#### BEHAVIORAL/SYSTEMS/COGNITIVE

- 7770 **Large-Scale Microelectrode Recordings of High-Frequency Gamma Oscillations in Human Cortex during Sleep**  
Michel Le Van Quyen, Richard Staba, Anatol Bragin, Clayton Dickson, Mario Valderrama, Itzhak Fried, and Jerome Engel
- 7783 **The Anorexigenic Neuropeptide, Nefatin-1, Is Indispensable for Normal Puberty Onset in the Female Rat**  
David García-Galiano, Víctor M. Navarro, Juan Roa, Francisco Ruiz-Pino, Miguel Angel Sánchez-Garrido, Rafael Pineda, Juan Manuel Castellano, Magdalena Romero, Enrique Aguilar, Francisco Gaytán, Carlos Diéguez, Leonor Pinilla, and Manuel Tena-Sempere
- 7817 **Acute Disruption of the NMDA Receptor Subunit NR1 in the Honeybee Brain Selectively Impairs Memory Formation**  
Laurenz Müßig, Antje Richlitzki, Reinhard Rößler, Dorothea Eisenhardt, Randolph Menzel, and Gérard Lebouille
- 7826 **Effects of Reverberation on the Directional Sensitivity of Auditory Neurons across the Tonotopic Axis: Influences of Interaural Time and Level Differences**  
Sasha Devore and Bertrand Delgutte
- 7838 **Impaired Conscious Recognition of Negative Facial Expressions in Patients with Locked-in Syndrome**  
Francesca Pistoia, Massimiliano Conson, Luigi Trojano, Dario Grossi, Marta Ponari, Claudio Colonnese, Maria L. Pistoia, Filippo Carducci, and Marco Sarà
- 7845 **Endogenous Histamine Facilitates Long-Term Potentiation in the Hippocampus during Walking**  
Tao Luo and L. Stan Leung
- 7889 **The Monoaminergic Modulation of Sensory-Mediated Aversive Responses in *Caenorhabditis elegans* Requires Glutamatergic/Peptidergic Cotransmission**  
Gareth Harris, Holly Mills, Rachel Wragg, Vera Hapiak, Michelle Castelletto, Amanda Korchnak, and Richard W. Komuniecki
- 7948 **Responses to Compound Objects in Monkey Inferotemporal Cortex: The Whole Is Equal to the Sum of the Discrete Parts**  
Arun P. Sripati and Carl R. Olson

- 7975 **Early Life Activation of Toll-Like Receptor 4 Reprograms Neural Anti-Inflammatory Pathways**  
Abdeslam Mouihate, Michael A. Galic, Shaun L. Ellis, Sarah J. Spencer, Shigeki Tsutsui, and Quentin J. Pittman
- 7984 **Extinction Training after Cocaine Self-Administration Induces Glutamatergic Plasticity to Inhibit Cocaine Seeking**  
Lori A. Knackstedt, Khaled Moussawi, Ryan Lalumiere, Marek Schwendt, Matthias Klugmann, and Peter W. Kalivas
- 8001 **Insulin Signaling Plays a Dual Role in *Caenorhabditis elegans* Memory Acquisition and Memory Retrieval**  
Chia Hsun Anthony Lin, Masahiro Tomioka, Schreiber Pereira, Laurie Sellings, Yuichi Iino, and Derek van der Kooy
- 8012 **Nutrient Selection in the Absence of Taste Receptor Signaling**  
Xueying Ren, Jozélia G. Ferreira, Ligang Zhou, Sara J. Shammah-Lagnado, Catherine W. Yeckel, and Ivan E. de Araujo
- 8024 **Neural Responses to Unattended Products Predict Later Consumer Choices**  
Anita Tusche, Stefan Bode, and John-Dylan Haynes
- 8032 **Updating Beliefs for a Decision: Neural Correlates of Uncertainty and Underconfidence**  
Emily R. Stern, Richard Gonzalez, Robert C. Welsh, and Stephan F. Taylor
- 8048 **Differential Involvement of Excitatory and Inhibitory Neurons of Cat Motor Cortex in Coincident Spike Activity Related to Behavioral Context**  
David Putrino, Emery N. Brown, Frank L. Mastaglia, and Soumya Ghosh

#### NEUROBIOLOGY OF DISEASE

- 7853 **Three-Amino Acid Spacing of Presenilin Endoproteolysis Suggests a General Stepwise Cleavage of  $\gamma$ -Secretase-Mediated Intramembrane Proteolysis**  
Akio Fukumori, Regina Fluhrer, Harald Steiner, and Christian Haass
- 7940 **A Calorie-Restricted Diet Decreases Brain Iron Accumulation and Preserves Motor Performance in Old Rhesus Monkeys**  
Erik K. Kastman, Auriel A. Willette, Christopher L. Coe, Barbara B. Bendlin, Kris J. Kosmatka, Donald G. McLaren, Guofan Xu, Elisa Canu, Aaron S. Field, Andrew L. Alexander, Mary Lou Voytko, T. Mark Beasley, Ricki J. Colman, Richard H. Weindruch, and Sterling C. Johnson

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://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](mailto:jn@sfn.org).