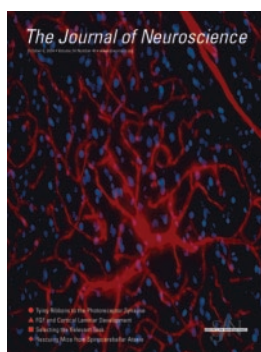


# The Journal of Neuroscience

October 6, 2004 • Volume 24 Number 40 www.jneurosci.org



**Cover picture:** Imaging the blood–brain barrier. As first described by Paul Ehrlich (1885), the reach blood supply of the brain is characterized by the presence of a structural and functional barrier. Red, Albumin-Evans blue complex limited to the blood vessels; blue, stained nuclei (DAPI staining). For details, see the article by Seiffert et al. in the September 8, 2004 issue (pages 7829–7836).

## i This Week in The Journal

### Brief Communications

- 8672 **The GABA<sub>A</sub> Receptor  $\gamma 2$  Subunit R43Q Mutation Linked to Childhood Absence Epilepsy and Febrile Seizures Causes Retention of  $\alpha 1\beta 2\gamma 2S$  Receptors in the Endoplasmic Reticulum**  
Jingqiong Kang and Robert L. Macdonald
- 8690 **Detection and Masking of Spoiled Food Smells by Odor Maps in the Olfactory Bulb**  
Yuji K. Takahashi, Shin Nagayama, and Kensaku Mori
- 8720 **B-Myb and C-Myb Play Required Roles in Neuronal Apoptosis Evoked by Nerve Growth Factor Deprivation and DNA Damage**  
David X. Liu, Subhas C. Biswas, and Lloyd A. Greene
- 8818 **Calcium-Activated Potassium Channels Are Selectively Coupled to P/Q-Type Calcium Channels in Cerebellar Purkinje Neurons**  
Mary D. Womack, Carolyn Chevez, and Kamran Khodakhah
- 8823 **The Role of cAMP Response Element-Binding Protein in *Drosophila* Long-Term Memory**  
Bastianella Perazzona, Guillaume Isabel, Thomas Preat, and Ronald L. Davis
- 8907 **Robustness of Multiplicative Processes in Auditory Spatial Tuning**  
José Luis Peña and Masakazu Konishi
- 8911 **Reducing the Uncertainty: Gating of Peripheral Inputs by Zona Incerta**  
Jason C. Trageser and Asaf Keller

### Articles

#### CELLULAR/MOLECULAR

- 8641 **The Zebrafish *nrc* Mutant Reveals a Role for the Polyphosphoinositide Phosphatase Synaptojanin 1 in Cone Photoreceptor Ribbon Anchoring**  
Heather A. Van Epps, Mitsuko Hayashi, Louise Lucast, George W. Stearns, James B. Hurley, Pietro De Camilli, and Susan E. Brockerhoff
- 8678 **Subunit-Dependent High-Affinity Zinc Inhibition of Acid-Sensing Ion Channels**  
Xiang-Ping Chu, John A. Wemmie, Wei-Zhen Wang, Xiao-Man Zhu, Julie A. Saugstad, Margaret P. Price, Roger P. Simon, and Zhi-Gang Xiong
- 8752 **Ral and Phospholipase D2-Dependent Pathway for Constitutive Metabotropic Glutamate Receptor Endocytosis**  
Moshmi Bhattacharya, Andy V. Babwah, Christina Godin, Pieter H. Anborgh, Lianne B. Dale, Michael O. Poulter, and Stephen S. G. Ferguson

- 8762 **Characterization of the c-Jun N-Terminal Kinase-Bim<sub>EL</sub> Signaling Pathway in Neuronal Apoptosis**  
Esther B. E. Becker, Jenny Howell, Yuki Kodama, Philip A. Barker, and Azad Bonni
- 8796 **Developmentally Regulated Switch in Alternatively Spliced SNAP-25 Isoforms Alters Facilitation of Synaptic Transmission**  
Christina Bark, Frederick P. Bellinger, Ashutosh Kaushal, James R. Mathews, L. Donald Partridge, and Michael C. Wilson
- 8829 **Coregulation of Glutamate Uptake and Long-Term Sensitization in *Aplysia***  
Omar Khabour, Jonathan Levenson, Lisa C. Lyons, Lorna S. Kategaya, Jeannie Chin, John H. Byrne, and Arnold Eskin
- 8838 **A New Platform to Study the Molecular Mechanisms of Exocytosis**  
Aviv Mezer, Esther Nachliel, Menachem Gutman, and Uri Ashery
- 8862 **SynGAP Regulates Spine Formation**  
Luis E. Vazquez, Hong-Jung Chen, Irina Sokolova, Irene Knuesel, and Mary B. Kennedy
- 8873 **Timing and Balance of Inhibition Enhance the Effect of Long-Term Potentiation on Cell Firing**  
Carrie P. Marder and Dean V. Buonomano

#### DEVELOPMENT/PLASTICITY/REPAIR

- 8651 **Survival of Adult Spiral Ganglion Neurons Requires erbB Receptor Signaling in the Inner Ear**  
Konstantina Stankovic, Carlos Rio, Anping Xia, Mitsuru Sugawara, Joe C. Adams, M. Charles Liberman, and Gabriel Corfas
- 8695 **Regulation of Neuronal Excitability through Pumilio-Dependent Control of a Sodium Channel Gene**  
Christopher J. Mee, Edward C. G. Pym, Kevin G. Moffat, and Richard A. Baines
- 8711 **Laminar Patterning in the Developing Neocortex by Temporally Coordinated Fibroblast Growth Factor Signaling**  
Hiroshi Hasegawa, Shizuko Ashigaki, Masako Takamatsu, Rika Suzuki-Migishima, Norihiko Ohbayashi, Nobuyuki Itoh, Shinji Takada, and Yasuto Tanabe
- 8726 **Switching Mature Retinal Ganglion Cells to a Robust Growth State *In Vivo*: Gene Expression and Synergy with RhoA Inactivation**  
Dietmar Fischer, Victoria Petkova, Solon Thanos, and Larry I. Benowitz
- 8885 **Switching of NMDA Receptor 2A and 2B Subunits at Thalamic and Cortical Synapses during Early Postnatal Development**  
Xiao-Bo Liu, Karl D. Murray, and Edward G. Jones

#### BEHAVIORAL/SYSTEMS/COGNITIVE

- 8662 **Failure to Consolidate the Consolidation Theory of Learning for Sensorimotor Adaptation Tasks**  
Graham Caithness, Rieko Osu, Paul Bays, Henry Chase, Jessica Klassen, Mitsuo Kawato, Daniel M. Wolpert, and J. Randall Flanagan
- 8704 **Histamine H<sub>3</sub> Receptors Inhibit Serotonin Release in Substantia Nigra Pars Reticulata**  
Sarah Threlfell, Stephanie J. Cragg, Imre Kalló, Gergely F. Turi, Clive W. Coen, and Susan A. Greenfield
- 8741 **Neuropeptide Y Inhibits Hypocretin/Orexin Neurons by Multiple Presynaptic and Postsynaptic Mechanisms: Tonic Depression of the Hypothalamic Arousal System**  
Li-Ying Fu, Claudio Acuna-Goycolea, and Anthony N. van den Pol

- 8771 **Molecular, Topographic, and Functional Organization of the Cerebellar Cortex: A Study with Combined Aldolase C and Olivocerebellar Labeling**  
Izumi Sugihara and Yoshikazu Shinoda
- 8786 **Altered Social Behavior in Pituitary Adenylate Cyclase-Activating Polypeptide Type I Receptor-Deficient Mice**  
Arnaud Nicot, Timothy Otto, Philippe Brabet, and Emanuel M. DiCicco-Bloom
- 8806 **Distribution and Injury-Induced Plasticity of Cadherins in Relationship to Identified Synaptic Circuitry in Adult Rat Spinal Cord**  
John H. Brock, Alice Elste, and George W. Huntley
- 8847 **Selection for Cognitive Control: A Functional Magnetic Resonance Imaging Study on the Selection of Task-Relevant Information**  
Marcel Brass and D. Yves von Cramon

#### NEUROBIOLOGY OF DISEASE

- 8853 **Recovery from Polyglutamine-Induced Neurodegeneration in Conditional *SCA1* Transgenic Mice**  
Tao Zu, Lisa A. Duvick, Michael D. Kaytor, Michael S. Berlinger, Huda Y. Zoghbi, H. Brent Clark, and Harry T. Orr
- 8896 **Mechanisms of Fast Ripples in the Hippocampus**  
Volodymyr I. Dzhalala and Kevin J. Staley

**Correction:** In the article "Spatiotemporal Dynamics of Sensory Responses in Layer 2/3 of Rat Barrel Cortex Measured *In Vivo* by Voltage-Sensitive Dye Imaging Combined with Whole-Cell Voltage Recordings and Neuron Reconstructions," by Carl C. H. Petersen, Amiram Grinvald, and Bert Sakmann, which appeared on pages 1298–1309 of the February 15, 2003 issue, not all of the neurons shown in the superposition of Figure 5 have the soma located in the D2 barrel. The idealized barrel maps should be annotated with the row and arc axes, without specific reference to individual barrel names. In the bottom left panel, the superposition of axons was not correctly centered. They were mistakenly shifted ~50  $\mu\text{m}$  upward toward the C row relative to the idealized barrel map. These corrections do not affect the quantitation or conclusion that axons predominantly spread along the row orientation of the barrel map.

Persons interested in becoming members of the Society for Neuroscience should contact the Membership Department, Society for Neuroscience, 11 Dupont Circle, NW, Suite 500, Washington, DC 20036, phone 202-462-6688.

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.sfn.org/content/Publications/TheJournalofNeuroscience/BriefComm/ifa.html>).

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, 202-462-6688; fax, 202-462-1547; e-mail, [jn@sfn.org](mailto:jn@sfn.org).