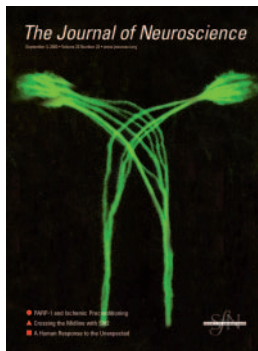


# The Journal of Neuroscience

September 3, 2003 • Volume 23 Number 22 www.jneurosci.org



**Cover picture:** Zebrafish *deadly seven*<sup>b420</sup> mutants have supernumerary Mauthner cells as revealed by whole-mount antibody labeling with 3A10. All of these excess Mauthner cells are incorporated into the escape response circuit. For details, see the article by Liu et al. in this issue (pages 8159–8166).

## i This Week in The Journal

### Brief Communications

- 8029 **Molecular-Imaging Probe 2-(1-[6-[(2-Fluoroethyl)(Methyl) Amino]-2-Naphthyl]Ethylidene) Malononitrile Labels Prion Plaques *In Vitro***  
Mara Bresjanac, Lojze M. Smid, Tomaz D. Vovko, Andrej Petrič, Jorge R. Barrio, and Mara Popovic
- 8070 **The Biological Clock Nucleus: A Multiphasic Oscillator Network Regulated by Light**  
Jorge E. Quintero, Sandra J. Kuhlman, and Douglas G. McMahon

### Articles

#### CELLULAR/MOLECULAR

- 7967 **Ischemic Preconditioning by Caspase Cleavage of Poly(ADP-Ribose) Polymerase-1**  
Philippe Garnier, Weihai Ying, and Raymond A. Swanson
- 7981 **Modulation of GABA<sub>A</sub> Receptors by Hydrogen Ions Reveals Synaptic GABA Transient and a Crucial Role of the Desensitization Process**  
Jerzy W. Mozrzymas, Ewa D. Żarmowska, Maria Pytel, and Katarzyna Mercik
- 8013 **Distribution of Kainate Receptor Subunits at Hippocampal Mossy Fiber Synapses**  
Melanie Darstein, Ronald S. Petralia, Geoffrey T. Swanson, Robert J. Wenthold, and Stephen F. Heinemann
- 8060 **Genetic and Cellular Basis for Acetylcholine Inhibition of *Caenorhabditis elegans* Egg-Laying Behavior**  
I. Amy Bany, Meng-Qiu Dong, and Michael R. Koelle
- 8077 **MinK-Related Peptide 2 Modulates Kv2.1 and Kv3.1 Potassium Channels in Mammalian Brain**  
Zoe A. McCrossan, Anthony Lewis, Gianina Panaghie, Peter N. Jordan, David J. Christini, Daniel J. Lerner, and Geoffrey W. Abbott
- 8098 **Role of Thalamic Phospholipase C $\beta$ 4 Mediated by Metabotropic Glutamate Receptor Type 1 in Inflammatory Pain**  
Mariko Miyata, Hideki Kashiwadani, Masahiro Fukaya, Takayuki Hayashi, Dianqing Wu, Tutomu Suzuki, Masahiko Watanabe, and Yoriko Kawakami
- 8167 **Disruption of an Intersubunit Interaction Underlies Ca<sup>2+</sup>-Calmodulin Modulation of Cyclic Nucleotide-Gated Channels**  
Jie Zheng, Michael D. Varnum, and William N. Zagotta

DEVELOPMENT/PLASTICITY/REPAIR

- 8125 **Brain-Derived Neurotrophic Factor Activation of NFAT (Nuclear Factor of Activated T-Cells)-Dependent Transcription: A Role for the Transcription Factor NFATc4 in Neurotrophin-Mediated Gene Expression**  
Rachel D. Groth and Paul G. Mermelstein
- 8159 **Mutations in *deadly seven/notch1a* Reveal Developmental Plasticity in the Escape Response Circuit**  
Katharine S. Liu, Michelle Gray, Stefanie J. Otto, Joseph R. Fetcho, and Christine E. Beattie
- 8176 **Slit2 Guides Both Precrossing and Postcrossing Callosal Axons at the Midline *In Vivo***  
Tianzhi Shu, Vasi Sundaresan, Margaret M. McCarthy, and Linda J. Richards

BEHAVIORAL/SYSTEMS/COGNITIVE

- 7974 **Depression of Activity in the Corticospinal Pathway during Human Motor Behavior after Strong Voluntary Contractions**  
Nicolas T. Petersen, Janet L. Taylor, Jane E. Butler, and Simon C. Gandevia
- 7993 **Ketamine-Xylazine-Induced Slow (<1.5 Hz) Oscillations in the Rat Piriform (Olfactory) Cortex Are Functionally Correlated with Respiration**  
Alfredo Fontanini, PierFranco Spano, and James M. Bower
- 8002 **Neural Coding of “Attention for Action” and “Response Selection” in Primate Anterior Cingulate Cortex**  
Yoshikazu Isomura, Yumi Ito, Toshikazu Akazawa, Atsushi Nambu, and Masahiko Takada
- 8020 **Comparison of *Hermisenda* Type A and Type B Photoreceptors: Response to Light as a Function of Intensity and Duration**  
Ji Ling Mo and Kim T. Blackwell
- 8034 **Reconsolidation of a Long-Term Memory in *Lymnaea* Requires New Protein and RNA Synthesis and the Soma of Right Pedal Dorsal 1**  
Susan Sangha, Andi Scheibenstock, and Ken Lukowiak
- 8041 **Are Crossed Actions of Reticulospinal and Vestibulospinal Neurons on Feline Motoneurons Mediated by the Same or Separate Commissural Neurons?**  
Piotr Krutki, Elzbieta Jankowska, and Stephen A. Edgley
- 8051 **Glycine Receptor Knock-In Mice and Hyperekplexia-Like Phenotypes: Comparisons with the Null Mutant**  
Geoffrey S. Findlay, Rachel Phelan, Michael T. Roberts, Gregg E. Homanics, Susan E. Bergeson, Gregory F. Lopreato, S. John Mihic, Yuri A. Blednov, and R. Adron Harris
- 8092 **Human Striatal Response to Salient Nonrewarding Stimuli**  
Caroline F. Zink, Giuseppe Pagnoni, Megan E. Martin, Mukeshwar Dhamala, and Gregory S. Berns
- 8109 **The Contribution of NMDA and AMPA Conductances to the Control of Spiking in Neurons of the Deep Cerebellar Nuclei**  
Volker Gauck and Dieter Jaeger
- 8119 **Dissociation of Extinction and Behavioral Disinhibition: The Role of NMDA Receptors in the Pigeon Associative Forebrain during Extinction**  
Silke Lissek and Onur Güntürkün
- 8135 **Motion Parallax Is Computed in the Updating of Human Spatial Memory**  
W. Pieter Medendorp, Douglas B. Tweed, and J. Douglas Crawford
- 8143 **GABA Is Involved in Spatial Unmasking in the Frog Auditory Midbrain**  
Wen-Yu Lin and Albert S. Feng

8152 **Oscillations in Endogenous Inputs to Neurons Affect Excitability and Signal Processing**

Marjorie A. Parkis, Jack L. Feldman, Dean M. Robinson, and Gregory D. Funk

**Correction:** In the article "CNS Glucagon-Like Peptide-1 Receptors Mediate Endocrine and Anxiety Responses to Interoceptive and Psychogenic Stressors," which appeared on pages 6163–6170 of the July 16, 2003 issue, the name of an author was misprinted. The sixth author's name should have read Helmer F. Figueiredo.

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 sent to the following address: *The Journal of Neuroscience*, Society for Neuroscience, 11 Dupont Circle, NW, Suite 500, Washington, DC 20036, phone 202-462-6688, fax 202-462-1547, e-mail [jn@sfn.org](mailto:jn@sfn.org).