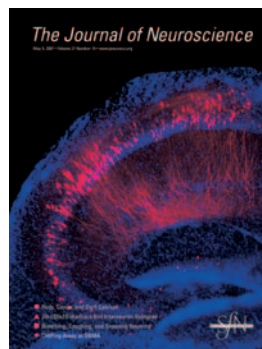


# The Journal of Neuroscience

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**Cover legend:** The hippocampal neuroepithelium of embryonic day 14.5 embryos was electroporated *in utero* with pCAG-RFP plasmid. Confocal images of the hippocampus were acquired 2 months later (on postnatal day 60). Transfected pyramidal neurons (red) were found in the CA3 and CA1 regions of this hippocampus. Cell nuclei were labeled with Hoechst dye (blue). For more information, see the article by Navarro-Quiroga et al. in this issue (pages 5007–5011).

## i This Week in The Journal

### Toolbox

- 5007 **Long-Term, Selective Gene Expression in Developing and Adult Hippocampal Pyramidal Neurons Using Focal *In Utero* Electroporation**  
Ivan Navarro-Quiroga, Ramesh Chittajallu, Vittorio Gallo, and Tarik F. Haydar

### Brief Communications

- 5063 **Responses of Neurons in Primary Visual Cortex to Transient Changes in Local Contrast and Luminance**  
Wilson S. Geisler, Duane G. Albrecht, and Alison M. Crane
- 5260 **Mechanisms for Synapse Specificity during Striatal Long-Term Depression**  
Sheela Singla, Anatol C. Kreitzer, and Robert C. Malenka

### Articles

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- 5033 **Synaptic  $Ca^{2+}$  in Darkness Is Lower in Rods than Cones, Causing Slower Tonic Release of Vesicles**  
Zejuan Sheng, Sue-Yeon Choi, Ajay Dharia, Jian Li, Peter Sterling, and Richard H. Kramer
- 5068 **Identification of Compartment- and Process-Specific Molecules Required for “Synaptic Tagging” during Long-Term Potentiation and Long-Term Depression in Hippocampal CA1**  
Sreedharan Sajikumar, Sheeja Navakkode, and Julietta U. Frey
- 5092  **$\beta$ -Arrestin2 and c-Src Regulate the Constitutive Activity and Recycling of  $\mu$  Opioid Receptors in Dorsal Root Ganglion Neurons**  
Wendy Walwyn, Christopher J. Evans, and Tim G. Hales
- 5127 **EphA4 Signaling Regulates Phospholipase  $C\gamma$ 1 Activation, Cofilin Membrane Association, and Dendritic Spine Morphology**  
Lei Zhou, Sarah J. Martinez, Michael Haber, Emma V. Jones, David Bouvier, Guy Doucet, Amadou T. Corera, Edward A. Fon, Andreas H. Zisch, and Keith K. Murai
- 5190 **Reversal of Synaptic Memory by  $Ca^{2+}$ /Calmodulin-Dependent Protein Kinase II Inhibitor**  
Magdalena Sanhueza, Charmian C. McIntyre, and John E. Lisman
- 5236 **Differential Regulation of Endogenous N- and P/Q-Type  $Ca^{2+}$  Channel Inactivation by  $Ca^{2+}$ /Calmodulin Impacts on Their Ability to Support Exocytosis in Chromaffin Cells**  
Robert C. E. Wykes, Claudia S. Bauer, Saeed U. Khan, Jamie L. Weiss, and Elizabeth P. Seward

## DEVELOPMENT/PLASTICITY/REPAIR

- 5012 **Distinct *cis*-Regulatory Elements from the *Dlx1/Dlx2* Locus Mark Different Progenitor Cell Populations in the Ganglionic Eminences and Different Subtypes of Adult Cortical Interneurons**  
Noël Ghanem, Man Yu, Jason Long, Gary Hatch, John L. R. Rubenstein, and Marc Ekker
- 5023 **Postnatal Generation of Neurons in the Ventrobasal Nucleus of the Rat Thalamus**  
Sandra M. Mooney and Michael W. Miller
- 5146 **p75 Neurotrophin Receptor Expression Defines a Population of BDNF-Responsive Neurogenic Precursor Cells**  
Kaylene M. Young, Tobias D. Merson, Areechun Sothibundhu, Elizabeth J. Coulson, and Perry F. Bartlett
- 5179 **TRPC3 Channels Are Necessary for Brain-Derived Neurotrophic Factor to Activate a Nonselective Cationic Current and to Induce Dendritic Spine Formation**  
Michelle D. Amaral and Lucas Pozzo-Miller
- 5215 **Interplay between Laminar Specificity and Activity-Dependent Mechanisms of Thalamocortical Axon Branching**  
Naofumi Uesaka, Yasufumi Hayano, Akito Yamada, and Nobuhiko Yamamoto
- 5224 **Excitatory GABA Action Is Essential for Morphological Maturation of Cortical Neurons *In Vivo***  
Laura Cancedda, Hubert Fiumelli, Karen Chen, and Mu-ming Poo

## BEHAVIORAL/SYSTEMS/COGNITIVE

- 5043 **Rhythmic Episodes of Subthreshold Membrane Potential Oscillations in the Rat Inferior Olive Nuclei *In Vivo***  
Edith Chorev, Yosef Yarom, and Ilan Lampl
- 5053 **Competitive Integration of Visual and Preparatory Signals in the Superior Colliculus during Saccadic Programming**  
Michael C. Dorris, Etienne Olivier, and Doug P. Munoz
- 5105 **Encoding of Movement Fragments in the Motor Cortex**  
Nicholas G. Hatsopoulos, Qingqing Xu, and Yali Amit
- 5139 **Experience Improves Feature Extraction in *Drosophila***  
Yueqing Peng, Wang Xi, Wei Zhang, Ke Zhang, and Aike Guo
- 5156 **Multifunctional Laryngeal Premotor Neurons: Their Activities during Breathing, Coughing, Sneezing, and Swallowing**  
Keisuke Shiba, Ken Nakazawa, Kenichi Ono, and Toshiro Umezaki
- 5172 **Changes in Human Muscle Spindle Sensitivity during a Proprioceptive Attention Task**  
Valérie Hospod, Jean-Marc Aimonetti, Jean-Pierre Roll, and Edith Ribot-Ciscar
- 5200 **Motorcortical Excitability and Synaptic Plasticity Is Enhanced in Professional Musicians**  
Karin Rosenkranz, Aaron Williamson, and John C. Rothwell
- 5207 **Processing Asymmetry of Transitions between Order and Disorder in Human Auditory Cortex**  
Maria Chait, David Poeppel, Alain de Cheveigné, and Jonathan Z. Simon

## NEUROBIOLOGY OF DISEASE

- 5081 **Defective Retrotranslocation Causes Loss of Anti-Bax Function in Human Familial Prion Protein Mutants**  
Julie Jodoin, Stéphanie Laroche-Pierre, Cynthia G. Goodyer, and Andréa C. LeBlanc

- 5115 **CHIP Overexpression Reduces Mutant Androgen Receptor Protein and Ameliorates Phenotypes of the Spinal and Bulbar Muscular Atrophy Transgenic Mouse Model**  
Hiroaki Adachi, Masahiro Waza, Keisuke Tokui, Masahisa Katsuno, Makoto Minamiyama, Fumiaki Tanaka, Manabu Doyu, and Gen Sobue
- 5163 **Selective Cochlear Degeneration in Mice Lacking the F-Box Protein, Fbx2, a Glycoprotein-Specific Ubiquitin Ligase Subunit**  
Rick F. Nelson, Kevin A. Glenn, Yuzhou Zhang, Hsiang Wen, Tina Knutson, Cynthia M. Gouvion, Barbara K. Robinson, Zouping Zhou, Baoli Yang, Richard J. H. Smith, and Henry L. Paulson
- 5249 **Contribution of Downregulation of L-type Calcium Currents to Delayed Neuronal Death in Rat Hippocampus after Global Cerebral Ischemia and Reperfusion**  
Xiao-Ming Li, Jian-Ming Yang, De-Hui Hu, Feng-Qing Hou, Miao Zhao, Xin-Hong Zhu, Ying Wang, Jian-Guo Li, Ping Hu, Liang Chen, Lu-Ning Qin, and Tian-Ming Gao
- 5265 **Erratum:** In the article “Activity of Inferior Temporal Cortical Neurons Predicts Recognition Choice Behavior and Recognition Time during Visual Search” by Ryan E. B. Mruzek and David L. Sheinberg, which appeared on pages 2825–2836 of the March 14, 2007 issue, the colors of the bars in both of the bar charts of Figure 5 were reversed. The correct figure is printed in this issue.

**Correction:** In the “This Week in The Journal” section of the April 18, 2007 issue, the summary title “AD Mice Turn to Fish Oil” and the editorial comments within are incorrect. The study, by Green et al., did not use fish oil or fish products. Rather, the study used Martek Biosciences Corporation’s long-chain polyunsaturated fatty acids, which are vegetarian algal oils produced from proprietary strains of microalgae. The *Journal* apologizes for this error.

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