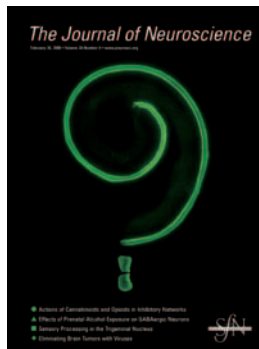


The Journal of Neuroscience

February 20, 2008 • Volume 28 Number 8 www.jneurosci.org



Cover legend: Immunofluorescence staining for otoferlin expression in whole mounts of mouse organ of Corti and crista ampullaris. Both cochlear and vestibular sensory hair cells exhibit an intense otoferlin staining. A defect in otoferlin expression silences the auditory hair cell ribbon synapse. For more information, see the article by Beurg et al. in this issue (pages 1798–1803).

i This Week in The Journal

Journal Club

- 1787 **The Influences of Associative Cortices on Cross-Modal Integration in the Superior Colliculus**
Etienne Vachon-Preseau and Luke Henry

Brief Communications

- 1798 **Calcium- and Otoferlin-Dependent Exocytosis by Immature Outer Hair Cells**
Maryline Beurg, Saaid Safieddine, Isabelle Roux, Yohan Bouleau, Christine Petit, and Didier Dulon
- 1943 **Microstructural Correlates of Infant Functional Development: Example of the Visual Pathways**
Jessica Dubois, Ghislaine Dehaene-Lambertz, Catherine Soarès, Yann Cointepas, Denis Le Bihan, and Lucie Hertz-Pannier
- 1970 **cAMP Response Element-Binding Protein 1 Feedback Loop Is Necessary for Consolidation of Long-Term Synaptic Facilitation in *Aplysia***
Rong-Yu Liu, Diasinou Fioravante, Shreyansh Shah, and John H. Byrne
- 1988 **The Good, the Bad, and the Cell Type-Specific Roles of Hypoxia Inducible Factor-1 α in Neurons and Astrocytes**
Grace Vangeison, Dan Carr, Howard J. Federoff, and David A. Rempe

Articles

CELLULAR/MOLECULAR

- 1804 **Noradrenergic Modulation of Electrical Coupling in GABAergic Networks of the Hippocampus**
Veronika Zsiros and Gianmaria Maccaferri
- 1824 **Complementary Modulation of Somatic Inhibition by Opioids and Cannabinoids**
Lindsey L. Glickfeld, Bassam V. Atallah, and Massimo Scanziani
- 1865 **Ca²⁺/CaM Controls Ca²⁺-Dependent Inactivation of NMDA Receptors by Dimerizing the NR1 C Termini**
Chaojian Wang, Hong-Gang Wang, Hui Xie, and Geoffrey S. Pitt
- 1894 **Release of the Styryl Dyes from Single Synaptic Vesicles in Hippocampal Neurons**
Xi Chen, Sebastian Barg, and Wolfhard Almers

- 1949 **Vesicle Priming and Recruitment by *ubMunc13-2* Are Differentially Regulated by Calcium and Calmodulin**
Dragoslav Zikich, Aviv Mezer, Frederique Varoquaux, Anton Sheinin, Harald J. Junge, Esther Nachliel, Rely Melamed, Nils Brose, Menachem Gutman, and Uri Ashery

DEVELOPMENT/PLASTICITY/REPAIR

- 1854 **Ethanol Consumption during Early Pregnancy Alters the Disposition of Tangentially Migrating GABAergic Interneurons in the Fetal Cortex**
Verginia C. Cuzon, Pamela W. L. Yeh, Yuchio Yanagawa, Kunihiko Obata, and Hermes H. Yeh
- 1961 **TGF β -Smad2 Signaling Regulates the *Cdh1*-APC/SnoN Pathway of Axonal Morphogenesis**
Judith Stegmüller, Mai Anh Huynh, Zengqiang Yuan, Yoshiyuki Konishi, and Azad Bonni

BEHAVIORAL/SYSTEMS/COGNITIVE

- 1789 **Inhibitory Gating of Vibrissal Inputs in the Brainstem**
Takahiro Furuta, Elena Timofeeva, Kouichi Nakamura, Keiko Okamoto-Furuta, Masaya Togo, Takeshi Kaneko, and Martin Deschênes
- 1816 **Prestimulus Oscillatory Activity in the Alpha Band Predicts Visual Discrimination Ability**
Hanneke van Dijk, Jan-Mathijs Schoffelen, Robert Oostenveld, and Ole Jensen
- 1841 **Activation of the Medial Septum Reverses Age-Related Hippocampal Encoding Deficits: A Place Field Analysis**
Simona Sava and Etan J. Markus
- 1871 **Recurrent Synaptic Input and the Timing of Gamma-Frequency-Modulated Firing of Pyramidal Cells during Neocortical "UP" States**
Kenji Morita, Rita Kalra, Kazuyuki Aihara, and Hugh P. C. Robinson
- 1916 **An Input-Representing Interneuron Regulates Spike Timing and Thereby Phase Switching in a Motor Network**
Kosei Sasaki, Jian Jing, Michael R. Due, and Klaudiusz R. Weiss
- 1929 **Nonlinearities and Contextual Influences in Auditory Cortical Responses Modeled with Multilinear Spectrotemporal Methods**
Misha B. Ahrens, Jennifer F. Linden, and Maneesh Sahani
- 1977 **Activation of Muscarinic Receptors in Rat Bladder Sensory Pathways Alters Reflex Bladder Activity**
F. Aura Kullmann, Debra E. Artim, Lori A. Birder, and William C. de Groat

NEUROBIOLOGY OF DISEASE

- 1833 **An Aggregate-Inducing Peripherin Isoform Generated through Intron Retention Is Upregulated in Amyotrophic Lateral Sclerosis and Associated with Disease Pathology**
Shangxi Xiao, Sonja Tjostheim, Teresa Sanelli, Jesse R. McLean, Patrick Horne, Yuxin Fan, John Ravits, Michael J. Strong, and Janice Robertson
- 1882 **Systemic Vesicular Stomatitis Virus Selectively Destroys Multifocal Glioma and Metastatic Carcinoma in Brain**
Koray Özdoğan, Guido Wollmann, Joseph M. Piepmeier, and Anthony N. van den Pol

1904 Locomotor Deficiencies and Aberrant Development of Subtype-Specific GABAergic Interneurons Caused by an Unliganded Thyroid Hormone Receptor $\alpha 1$
Karin Wallis, Maria Sjögren, Max van Hogerlinden, Gilad Silberberg,
André Fisahn, Kristina Nordström, Lars Larsson, Håkan Westerblad,
Gabriela Morreale de Escobar, Oleg Shupliakov, and Björn Vennström

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