Cover picture: Inositol trisphosphate receptors (IP₃, type 1; in green) in the I band of the sarcoplasmic reticulum (cross striations) and in a motor end plate region from dissociated mouse diaphragm muscle. A cluster of nuclei (blue) encircled by membrane of the postsynaptic gutter, marked by α-bungarotoxin labeling of acetylcholine receptors (AChR; in red), marks the position of the motor end plate. The overlap of IP₃Rs and AChRs leads to the orange tint of the AChR staining. There are some nuclei above the motor end plate region that are surrounded by IP₃Rs; these we identify as belonging to muscle satellite cells. A heavily stained cell, which we identify as a Schwann cell, is visible just below the motor end plate. For details, see the article by Powell et al. in this issue (pages 8185 – 8192).

This Week in The Journal

Brief Communication

8417 Synaptic Transport of Human Immunodeficiency Virus–Tat Protein Causes Neurotoxicity and Gliosis in Rat Brain
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8185 IP₃ Receptors and Associated Ca²⁺ Signals Localize to Satellite Cells and to Components of the Neuromuscular Junction in Skeletal Muscle
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8212 Brain-Derived Neurotrophic Factor Stimulates Energy Metabolism in Developing Cortical Neurons
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8330 Complex Formation between the Postsynaptic Scaffolding Protein Gephyrin, Profilin, and Mena: A Possible Link to the Microfilament System
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The Developmental Loss of the Ability of Purkinje Cells to Regenerate Their Axons Occurs in the Absence of Myelin: An In Vitro Model to Prevent Myelination
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Brain Region-Specific Mechanisms for Acute Morphine-Induced Mitogen-Activated Protein Kinase Modulation and Distinct Patterns of Activation during Analgesic Tolerance and Locomotor Sensitization
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Enhanced Evoked Excitatory Transmitter Release in Experimental Neuropathy Requires Descending Facilitation

Burst-Induced Synaptic Depression and Its Modulation Contribute to Information Transfer at Aplysia Sensorimotor Synapses: Empirical and Computational Analyses
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Jennifer A. Hobin, Ki A. Goosens, and Stephen Maren

Cerebellar Loops with Motor Cortex and Prefrontal Cortex of a Nonhuman Primate
Roberta M. Kelly and Peter L. Strick

Correction: In the August 20, 2003 issue, the most current version of the legend corresponding to the cover picture was not supplied. The cover legend should have read “Cover picture: Connexin35 (Cx35) mediates electrical transmission at identifiable mixed synaptic contacts on the goldfish Mauthner cell. Freeze-fracture immunogold labeling of one of these terminals identified by confocal gridmapping of the Mauthner cell confirms the presence of Cx35 (10 nm gold beads) in the gap junction plaques (red). For details, see the article by Pereda et al. in this issue (pages 7489–7503).”

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