The Journal of Neuroscience

The Official Journal of the Society for Neuroscience

September 1991
Volume 11 Number 9

Cover picture: False color images obtained from ratiometric measurements of fura-2 filled axon and presynaptic terminals of the inhibitor motor neuron innervating the crayfish (*Procambrus clarkii*) claw opener muscle. Top left: raw 380 nm excited fluorescent image. The uniform purple color in the next lower image indicates resting calcium concentration of approximately 150 nM prior to stimulation. Stimulating action potentials in the axon at a rate of 40/sec results in a rapid rise in calcium concentration which is greater in presynaptic terminal boutons than in adjacent axon. Orange to red pseudocolor corresponds to between 1.0 and 1.5 μM calcium. Image pairs were collected every 1.8 sec during stimulation of axon. The last image was obtained during 1.8 sec immediately after termination of action potential train. The largest terminal is 6 μm by 10 μm. (See Delaney et al., pp. 2631–2643.)

Persons interested in becoming members of the Society for Neuroscience should address inquiries to the Society for Neuroscience, Suite 500, 11 Dupont Circle, N.W., Washington, D.C. 20036; (202) 462-6688.

Instructions to Authors appear in the January issue only. Copies of the Instructions can be obtained by writing *The Journal of Neuroscience,* Department of Neurobiology, Box 3209, 101G Bryan Building, Research Drive, Duke University Medical Center, Durham, NC 27710. Submissions should be sent to Dr. Dale Purves, editor-in-chief, at the same address. Inquiries concerning manuscripts can be made directly to Lucinda Paris and Dianitia Hutcheson, managing editors, at the offices of the *Journal* (919-684-3084; FAX 919-684-8573; Bitnet JNS@NEURO.DUKE.EDU).