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Cover Picture: A whole mount electron micrograph of a growth cone from a rat superior cervical ganglion neuron culture prepared by direct freezing from the living state followed by freeze substitution and critical-point drying. The living growth cones can be stained with the fluorescent dye DiOC6, which allows the visualization of the dynamics of the endoplasmic reticulum and other membranous organelles. Photograph provided by the authors, M.E. Dailey and P.C. Bridgman, from their paper (pp. 1897-1909, this issue).

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