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**COVER** Multinucleated cells of *Dictyostelium discoideum* cells that arise when cytokinesis is impaired by the lack of myosin heavy chain protein. The bright spots are nuclei fluorescently stained with the DNA binding dye Hoechst 33258 after fixation of the cells. The phenotype was produced by transforming cells with a vector that encodes myosin heavy chain antisense RNA. See pages 1081 and 1086. [D. A. Knecht and W. F. Loomis, University of California San Diego, La Jolla, CA 92093]

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