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COVER  Cluster of Boergesenia forbesii cells. The giant, balloon-like cells of this marine green alga produce hundreds of viable protoplasts within 90 minutes when they are wounded (protoplasts visible in two cells). This phenomenon is accompanied by the appearance of numerous coated pits and vesicles near the plasma membrane (about ×9). See page 331. [John W. La Claire II, Department of Botany, University of Texas, Austin 78712, with cooperation of the Cell Research Institute and Dennis T. Brown]