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COVER  The rose sea anemone (*Tealia piscivora*) exemplifies the beauty of many cnidarians, the simplest animals having a nervous system. Tentacles of the cosmopolitan anemone (*Haliplanella luciae*) have mechanoreceptors on the surface that tune to the movements of prey identified by chemodetection. See page 1589. [Photograph by George Grall, National Aquarium, Baltimore, MD 21202]


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