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Head of a fruit fly, *Drosophila melanogaster*, viewed by scanning electron microscopy (approximate magnification, ×380). Targeted expression of the *eyeless* gene induced the formation of eye facets on the antenna (to the lower right of the eye), which are very similar to the facets of the normal eye, identifying *eyeless* as the master control gene of eye morphogenesis. See page 1788 and the News story on page 1766. [Photo: Andreas Hefti and Georg Halder]

**RESEARCH ARTICLE**

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Filling a cavity with water

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