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Cover picture: An adherent layer of cells (HeLa) being exposed to strong ultrasound depicts very characteristic damage patterns. These patterns are made visible with fluorescence microscope images (images width 1.2 mm). Here, three approximately circular patterns exhibit complete removal of cells at their center, which is surrounded by an annular ring of dead cells (stained *red* with ethidium bromide). The outer ring of green-stained cells indicates viable uptake of a nonmembrane-permeant molecule (calcein). The pattern of cell detachment and the so-called sonoporation are caused by a nonspherical collapse of bubbles that is generated by the ultrasound wave. During the collapse, a fast jet flow is accelerated toward the adherent cell layer. See the article by Ohl et al. on page 4285.