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In situ observation of single cell response to acoustic droplet vaporization: membrane deformation, permeabilization, and blebbing

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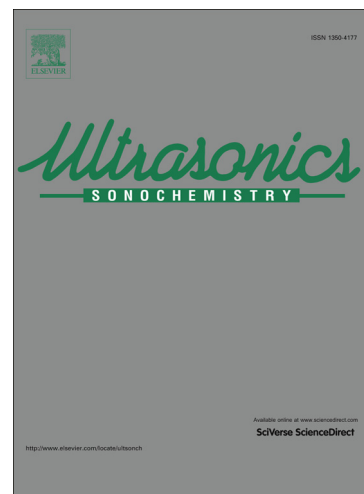
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Research Highlights

1. We studied the ADV-associated cellular bioeffects at the single-cell level.
2. High-speed imaging observed ADV bubble dynamics and bubble-cell interactions.
3. Cell membrane deformation, permeabilization and blebbing was evaluated *in situ*.
4. ADV mainly led to irreversible rather than reversible sonoporation.
5. This work help us to develop optimal approaches for utilizing ADV in theranostics.

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