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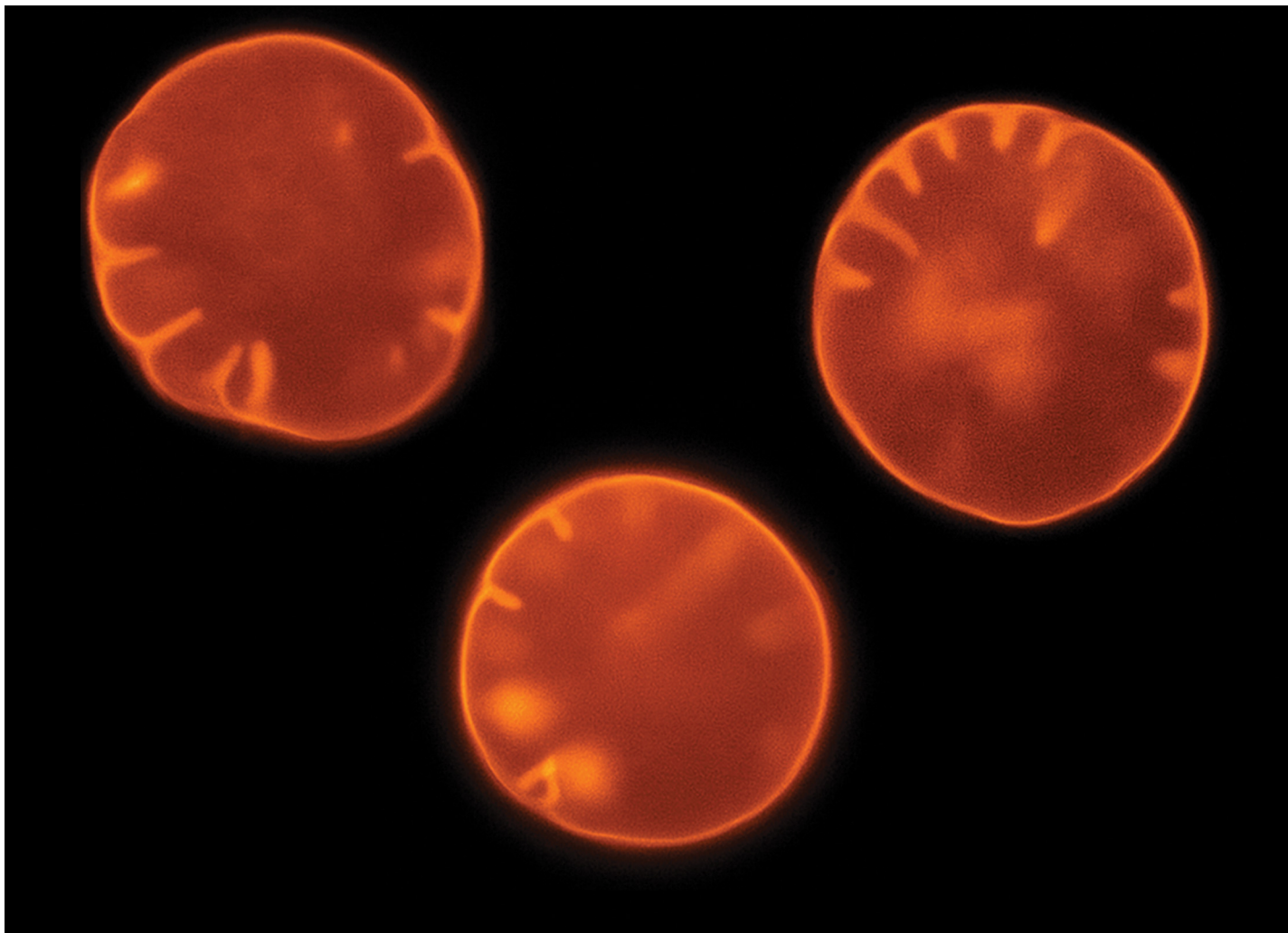
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Showcasing research from Professor Pramod Pullarkat's laboratory, Soft Condensed Matter group, Raman Research Institute, Bangalore, India.

Rotational dynamics of bound pairs of bacteria-induced membrane tubes

The experiments demonstrate tube formation in giant unilamellar vesicles that are suspended in a bath of *E. coli* bacteria. The tubes are generated by the pushing force exerted by the bacteria on the vesicles. Once generated, the bacteria are confined within the tubes, resulting in long-lived tubes. Remarkably, tubes interact to form stable bound pairs that orbit each other. It is speculated that the rotating pairs are stabilized by a combination of curvature mediated interaction and vorticity generated in the membrane by the rotation of the flagella.

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As featured in:



See Pramod Pullarkat *et al.*, *Soft Matter*, 2025, **21**, 8279.