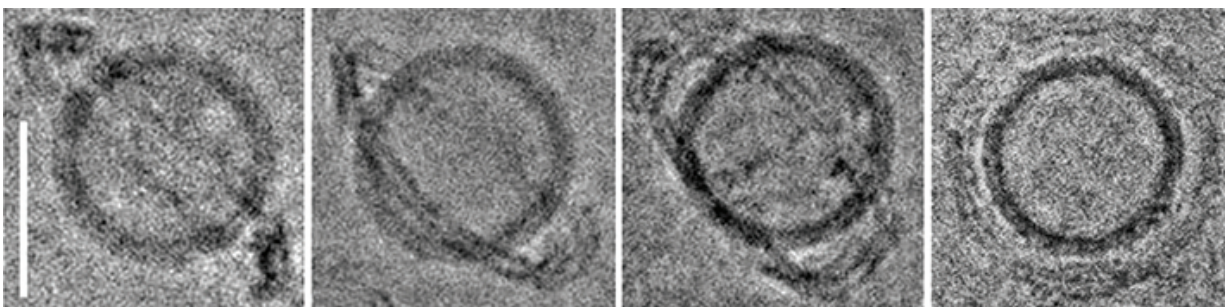


# Scientists develop nanoscale vesicles for cellular deliveries

March 22 2016

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Credit: Hideki Shigematsu

Scientists have developed a novel nano-engineering technique to fabricate tiny, membrane-bound vesicles called liposomes.

Looking a bit like the planet Saturn, spherical liposomes fabricated within DNA nano-rings such as the ones captured here by [electron microscopy](#) can be made as small as 20 nanometers.

The ability to tailor liposomes to exact sizes help scientists study how cells and subcellular compartments interact and for [biomedical researchers](#) to deliver drugs to target cells with [optimal efficiency](#), said Chenxiang Lin, assistant professor of cell biology at the Yale Nanobiology Institute at West Campus and a co-senior author of the paper published online March 21 in the journal *Nature Chemistry*.

**More information:** Yang Yang et al. Self-assembly of size-controlled liposomes on DNA nanotemplates, *Nature Chemistry* (2016). [DOI: 10.1038/nchem.2472](https://doi.org/10.1038/nchem.2472)

Provided by Yale University

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