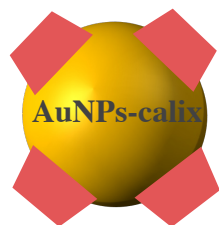
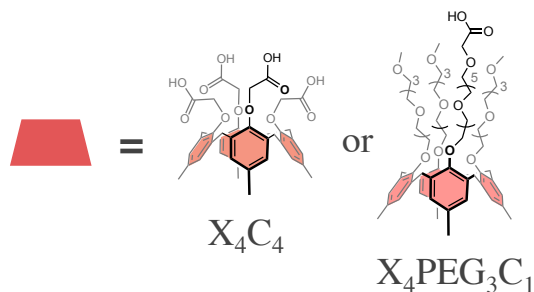


Development of a AuNPs-based ovarian selective miRNA delivery system to reduce side effects of chemotherapy

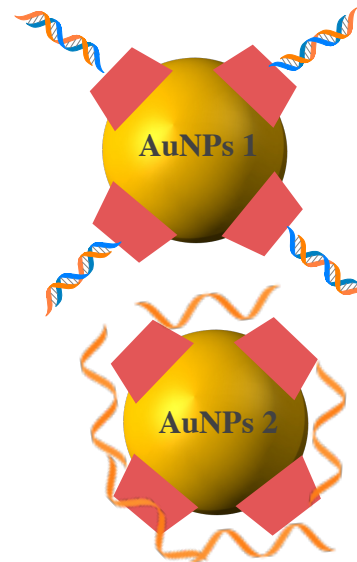
Vector development

In comparison with AuNPs-S-RNA obtained via the common salt-aging method, we developed more robust and functionalizable **AuNPs-calixarenes** platforms with multiple Au-C bonds



Covalent RNA grafting

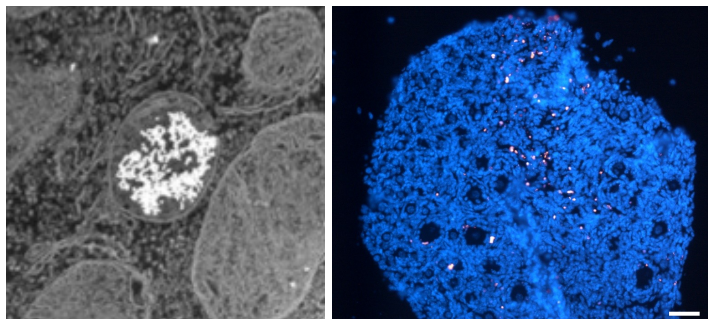
RNA adsorption



Anchoring strand

Delivery miRNA let-7a

Biological studies



✓ AuNPs cellular uptake

✓ Ovaries biocompatibility

~ Variability in delivery efficiency

More stable AuNPs
vectors with
multifunctional properties