



Showcasing research from Professor Adam R. Urbach's laboratory, Department of Chemistry, Trinity University, San Antonio, Texas, USA.

Peptide recognition by a synthetic receptor at subnanomolar concentrations

Inspired by the recent imaging of celestial objects by the James Webb Space Telescope, the binding pair composed of cucurbit[8]uril and *N*-terminal dipeptide are depicted as a supermassive black hole and star-filled nebulae, respectively. Just like the strong pull of a black hole on matter in the vacuum of space, cucurbit[8]uril has been shown to bind *N*-terminal dipeptide sites in water with exceptionally strong affinity, and thus at low concentrations.

As featured in:



See Adam R. Urbach *et al.*,
Chem. Sci., 2024, **15**, 5133.