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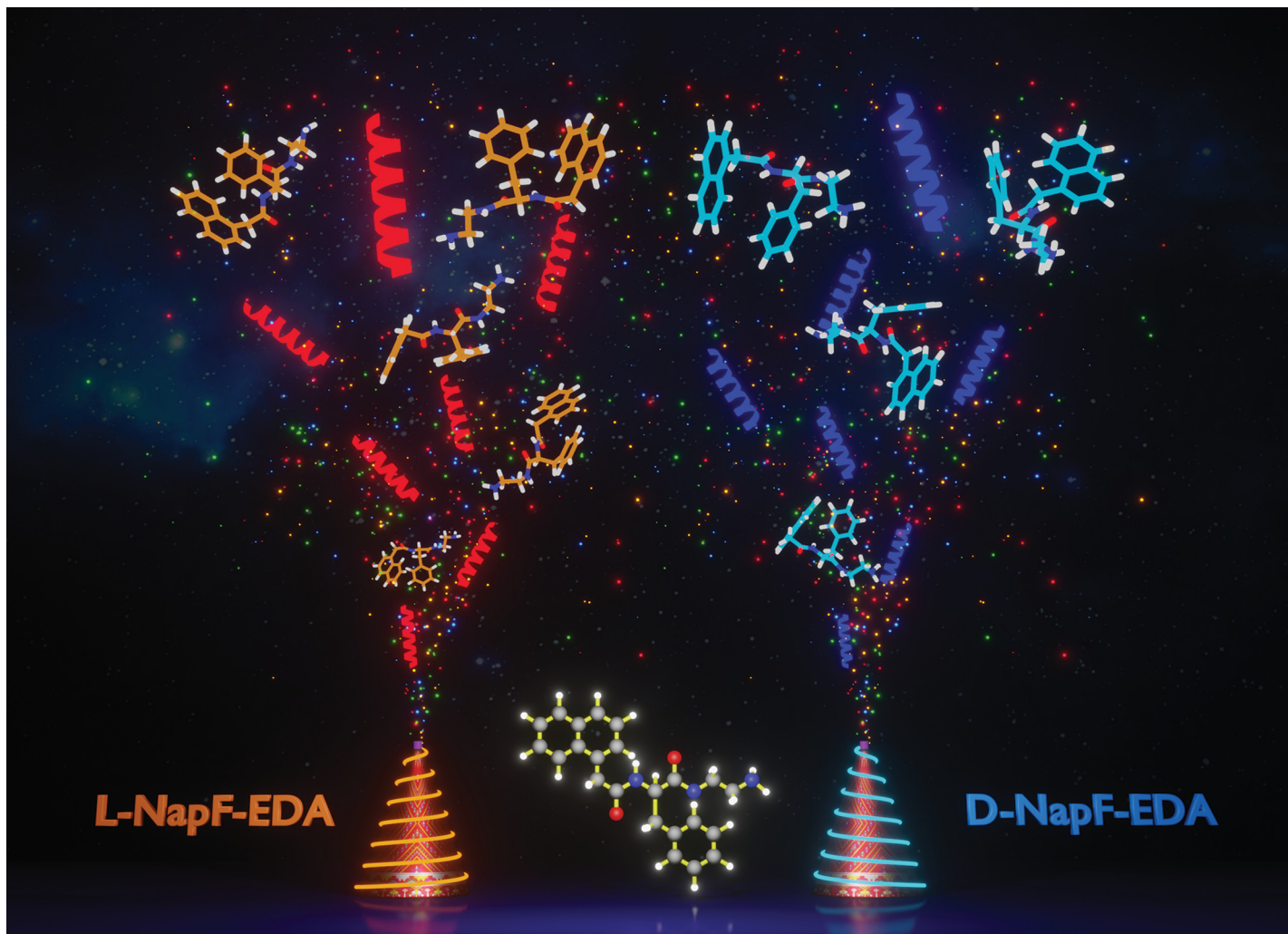
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Showcasing research from Professor Aasheesh Srivastava's laboratory, Department of Chemistry, IISER Bhopal, Bhopal, Madhya Pradesh, INDIA.

Divergent self-assembly propensity of enantiomeric phenylalanine amphiphiles that undergo pH-induced nanofiber-to-nanoglobule conversion

Enantiomeric phenylalanine-derived amphiphiles were observed to exhibit different propensities towards enthalpy-driven self-assembly – the L-Phe derivative (dis)assembled more readily than the D-Phe derivative, with the latter exhibiting larger hysteresis while self-assembling upon thermal cycling. Both the enantiomers formed helical nanofibers (of opposite chirality) at $\text{pH} \geq 8$ that reversibly converted to nanoglobules at low pH (~ 5).

As featured in:



See Aasheesh Srivastava *et al.*, *Soft Matter*, 2024, **20**, 3602.