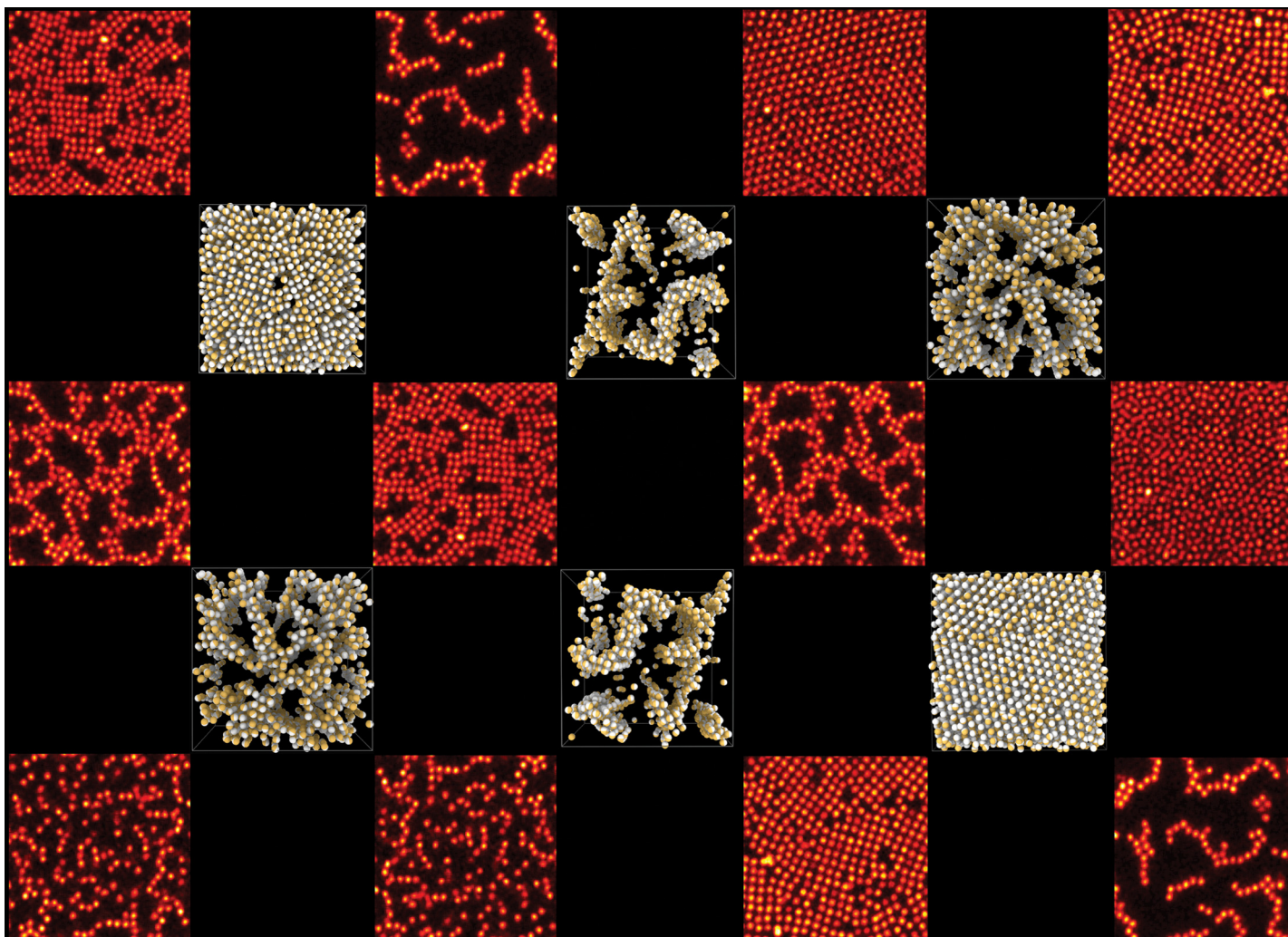




Showcasing research from C. Patrick Royall's laboratory,
Gulliver, ESPCI Paris, France.

Dipolar colloids in three dimensions: non-equilibrium
structure and re-entrant dynamics

Active colloids feature the best of both worlds: they combine the exotic behaviour of active or living matter with the well-defined interactions of passive colloids. Until now, active colloids have mainly been limited to 2D but now we enter the third dimension. These 3D active colloids exhibit unexpected behaviour from travelling strings to sheets and labyrinthine assemblies which fluctuate in a manner reminiscent of biological membranes and crystals at high packing.

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Soft Matter, 2025, **21**, 5204.

As featured in:



See C. Patrick Royall *et al.*,
Soft Matter, 2025, **21**, 5204.