

An illustration showing the process of microgel formation. A glass capillary tube is shown at an angle, with a green liquid inside. The tube is divided into sections by white rings. Each section contains a green droplet with red and blue wavy lines representing DNA. The droplets are shown in various stages of formation, from small droplets to larger, more defined ones. The background is a dark blue gradient with white curved lines and a bright light source on the left. The text 'NANO · MICRO' is in red and 'small' is in white, both in a bold, sans-serif font.

NANO · MICRO small

Uniform Cell-Sized Microgels

In article number 2302193, Miho Yanagisawa, Akihisa Shioi, and co-workers report on spontaneous formation of uniform cell-sized microgels inside a glass capillary. By adapting aqueous polymer solution containing DNA, droplets entrapping DNA are generated in a self-organized manner through micro phase-separation, and these droplets are transformed into gel state by decreasing the temperature. The microgels are easily extruded into bulk water, maintaining their size.