

RSC Applied Polymers

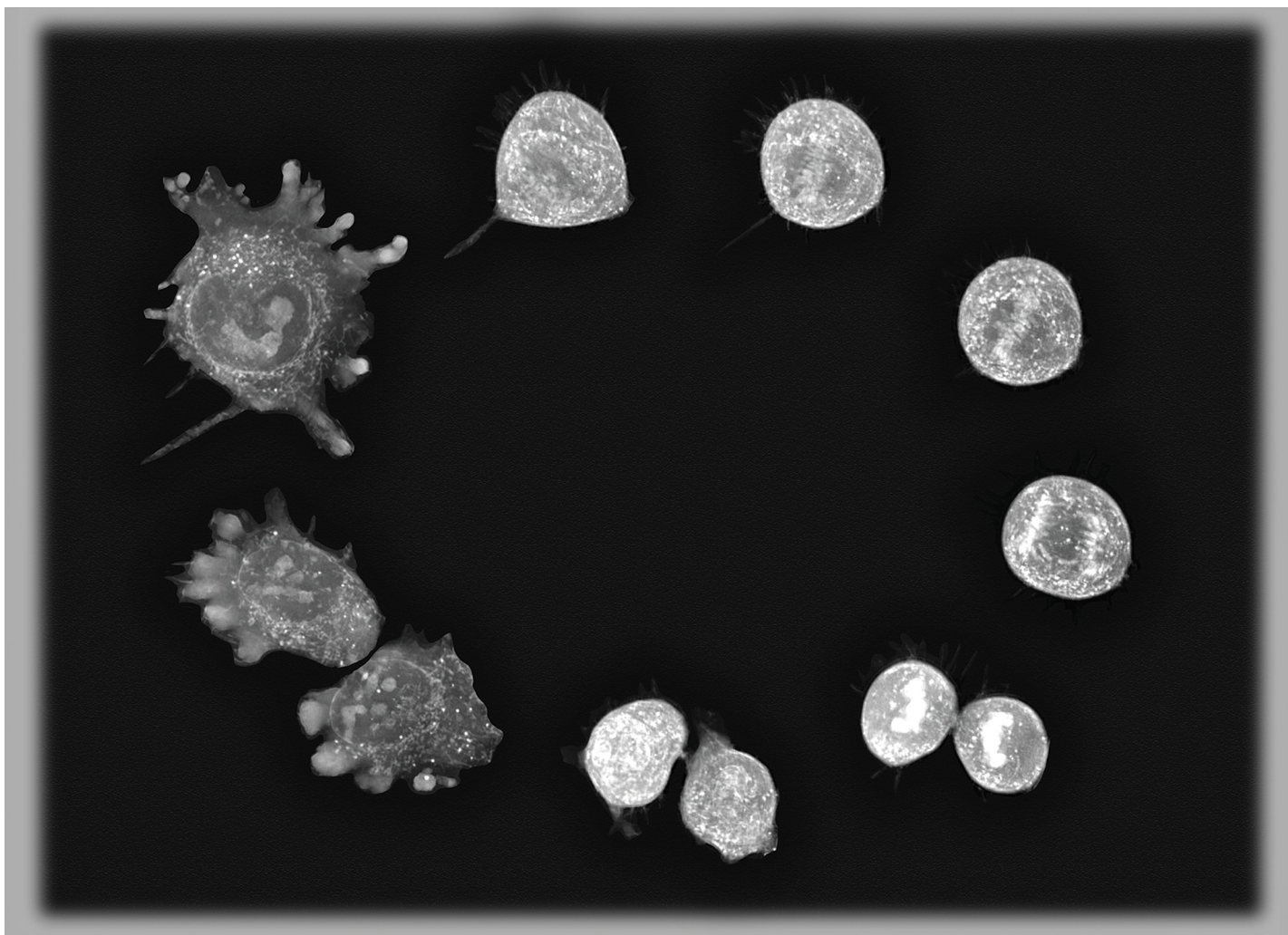
GOLD
OPEN
ACCESS

The application of polymers,
both natural and synthetic

Interdisciplinary and open access

rsc.li/RSCApplPolym

Fundamental questions
Elemental answers



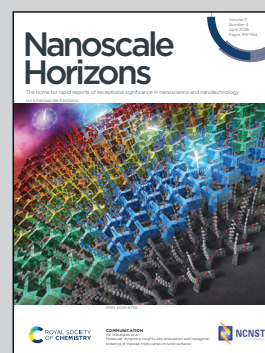
Showcasing research from Dr Straehla's research group performed at the Koch Institute for Integrative Cancer Research, Massachusetts Institute of Technology, Boston, MA, United States.

Subcellular nanoparticle trafficking investigated with label-free, live cell imaging

Holotomography is a live-cell imaging technique that provides high-contrast views of cells and organelles based solely on their intrinsic refractive index. By incorporating nanoparticle dosing and trafficking studies into this established workflow, we open new avenues for observing how nanomaterials move through and interact with cells in real time. The same technology that captures complex cellular events such as the mitotic progression (shown here), can now be applied to investigate nanoparticle dynamics at both single-cell and population scales.

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As featured in:



See Elizabeth Nelson *et al.*,
Nanoscale Horiz., 2026, **11**, 1011.