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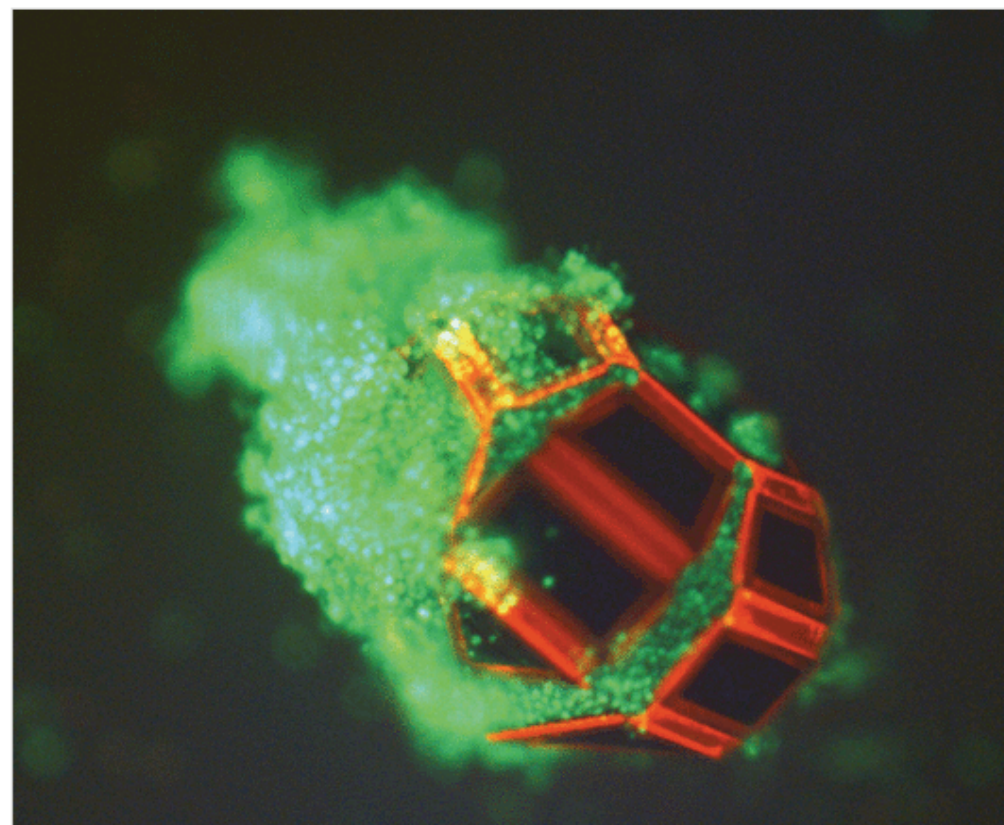
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Fluorescent Micrograph of a Microgripper Tool

Timothy G. Leong and Christina L. Randall, The Gracias Research Group, JHU ChemBE4

A microgripper is a microscopic tool that can grasp and manipulate microscale objects safely. This is a fluorescent micrograph of a microgripper that was biochemically-triggered by cell media to close around L929 fibroblast cells. The cells were stained with a LIVE/DEAD assay and glow green under UV fluorescence, indicating that they are alive. The polymer used in the microgripper joints is also UV reactive and appears reddish-orange. The microgripper features phalanges made from gold-plated nickel which enables remote magnetic manipulation and can also be triggered by mild heating to ~40°C.

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