



Biofabrication: Chapter 11. Fabrication of Artificial Bacteria for Targeted Drug Delivery (Micro and Nano Technologies)

U Kei Cheang, Min Jun Kim

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Recent developments in microrobotics demonstrate the potential to integrate microrobotic principles into drug delivery systems. Existing drug delivery technology is practically applicable for administering pharmaceutical agents to targeted areas, but direct administration to targeted tissues and organs is still a great challenge. It is envisioned that the propulsive capability of microrobotic swimmers can enhance the targeting capability of current systems by providing specificity and minimizing side effects and complications for patients. The examination of the effective navigation of microorganisms in the human body created the question of whether biomimetic devices could mimic the swimming strategy and adaptive properties of bacteria. This chapter discusses in detail the concept behind microswimmer, or artificial bacteria, design that directly utilizes bacterial flagella for propulsion, allowing the microswimmer to closely mimic live bacteria.

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