

Laplace Barrier Guided Drug Loading of Microcontainers

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Project description:

Microcontainer technology has recently been presented as a promising technology for targeted drug delivery. Here, for instance, a drug is loaded into small, confined volumes and sealed with pH-responsive polymers. The seal is broken and the drug released when the containers reach a predetermined location in the gastrointestinal tract. However, novel methods for fast, and with minimal waste, drug loading are continuously being searched for. In this project, you will explore the use of laplace barriers to guide a liquid drug into the microcontainers.

Content:

Fabrication of SU8 microcontainers: Using UV lithography microcontainers with this new pressure barriers will be fabricated. **Drug loading:** Following fabrication, liquid drugs are loaded using a novel loading method, which you will help design.

The successful project will result in a publication

