

Student Project:(Semester/Master Thesis)

Control of Microrobot For Microvascular Obstruction Treatment

Short description:

We developed a high-throughput microfluidic droplet-based process for the mass production of microrobots at a laboratory scale. We have successfully demonstrated the navigation of microrobots to the target lesion, and their enhanced thrombolytic performance has been validated within an emboli-on-a-chip microfluidic system. Currently, we are planning ex vivo and in vivo experiments in a pig model to further evaluate the clinical potential of our approach.

Type of work: Experimental work (80%) + Data analysis (20%)

When: as soon as possible

Requisites:

General wet lab skills, Basic chemistry and Biology, data analysis skill

Contact

please email your CV and transcript of record to: yimo.yan@hest.ethz.ch

