

講演会 4月2日 13:00-14:30

演題 Inertial microfluidic technologies for high-throughput and precise cell manipulation

講師 Xinjie Zhang

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日時 2025年4月2日(水) 13:00-14:30

場所 化学系中会議室(本館1階161B)

Assoc. Prof. Xinjie Zhang studies inertial microfluidic technologies for microparticle manipulation, microvalves/pumps for flow control and delivery, microdroplet generation and single cell encapsulation, etc.

Abstract: Capture and separation of biological cells (e.g., blood cells, cancer cells, etc) is vital importance for disease early detection. In this lecture, he will introduce a series of inertial microfluidic technologies for focusing and separating different kinds of biological cells. Briefly, three types of inertial microfluidic chips will be introduced. The focusing mechanism of fluorescent microbeads and separation performance of biological cells in the microchannels of the inertial microfluidic chips are demonstrated, respectively.

連絡先 理学院化学系 火原・福原研究室 火原彰秀(3904)