

第273回 LBBセミナー

Microfluidic and optofluidic platforms for microswimmer studies and hazardous substance detection



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Abstract

This talk will present microfluidic platforms to study flagellated microorganisms, i.e. microswimmers, subject to different stimuli and conditions. Established microfluidic platforms and current progress on organ-on-a-chip devices to study individual microswimmers will be presented. A second part of the talk will present the amalgamation of optics and microfluidics, a field known as optofluidics, which has motivated the development of nanostructured sensors with both optical (nanoplasmonic) and nanofluidic abilities.