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Enabling microfluidic platforms for screening of biomarkers and fast diagnosis of infectious and diagnosis diseases

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要旨

Microfluidic technology has been an enabling technology in the recent year for a variety of biomedical applications. In this talk, I will briefly introduce two on-going research works in my group. The first one is the screening of biomarkers (aptamers) using microfluidic technologies in an automatic format. A magnetic-bead-based, automatic microfluidic system was used to select DNA-based aptamers, which can be crucial biomarkers for various applications, including diagnosis and target therapy. In the second part of my talk, I will talk about how to use integrated microfluidic systems for fast diagnosis of several diseases, including infectious disease and genetic diseases.



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