

演 題 : Reading disc-based bioassays with standard computer drives: a portable and personal diagnostic tool

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要 旨 : Microarray technology is a powerful tool for the high-throughput analysis of specific interactions between biological macromolecules (DNA, proteins, and carbohydrates). However, its applications are currently limited to well-funded biomedical laboratories or hospital settings due to the requirement for expensive equipment (such as robotic spotters and laser fluorescence scanners). We have recently developed a digital signal readout protocol for screening disc-based bioassays with standard optical drives of ordinary desktop/notebook computers. Because no modification to either hardware or software is needed, it promises a platform technology for rapid, low-cost, and high-throughput point-of-care biomedical diagnostics.

本講演は『化学研究総合講義 』の一部として認定されております

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