

国立大学法人 九州工業大学

第47回 歯工学連携講演会

Point-of-care Biosensors and their applications

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総合教育棟 C-1B講義室

Highly sensitive point of care (POC) platform or any method of such kind f or the examination of thyroid hormones such as TSH, T4, T3 are not avail able on the market. In addition, there exists a limitation to detect relativel y low amount of such hormones present in serum by using lateral flow ass ay method. To meet this end, he has developed time-resolved fluorescence based detection module and he has used optimized lanthanide chemicals, more specifically europium conjugated beads in an attempt to measure the ultralow levels of hormones. As a preliminary results, he has obtained precision of within 7% and sensitivity of 1mIU/mL for the detection of above mentioned hormones.

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