



University
of Basel

Department of
Biomedical Engineering



Selected research topics in Biomedical Engineering:

The Future of Personalized Medicine: 3D Printing & Patient-Specific Technologies

Location: Biozentrum, Spitalstrasse 41, Basel, Seminar Room U1.191

Date & Time: Tuesday 05.03.2024 11:15 – 13:00

Optoelectronic POC Systems for Bioanalyte Monitoring

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Abstract

Optoelectronic point-of-care (POC) systems offer transformative solutions for early biomarker detection and disease management. These technologies combine the sensitivity to molecule detection, compactness of optical readers, and convenience of sample analysis which can be performed in the physician's office or at home. In this talk we will present the highlights of the optoelectronic systems we are developing at CSEM. The talk will cover the application of fluorescence and spectroscopy methods for visible and infrared light to monitor bioanalytes.