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TUTORIAL TOPIC:

Cost-effective bio-sensors: Fabrication & Testing

TUTORIAL:

As suggested by the title, we will describe the process of bio-sensor design, fabrication and evaluation based on sensor systems we have developed in-house. We will also describe the general principles and challenges involved in biosensing. The emphasis will be on low cost methods, materials and detection principles.

PROFILE:

Manoj Varma is Assistant Professor at the Center for Nano Science and Engineering (CeNSE) at the Indian Institute of Science, Bangalore with research interests in biosensor and related technologies. His primary area of interest is in optical techniques for sensing.

Sai Siva Gorthi is Assistant Professor at the department of Instrumentation and Applied Physics (IAP), at the Indian Institute of Science, Bangalore with interests in the general area of optofluidics and lab-on-chip systems. He has been recently developing imaging flow cytometry as a tool for diagnosis of diseased cell states.