

# Lab-on-a-Chip Technologies for Point-of-Care Diagnostics

**Date:**

**22 October 2019**

**Time:**

**5:30 pm to 7:00 pm**

**Location:**

**Metropolitan Plaza  
Auditorium (1<sup>st</sup> floor)  
22901 Millcreek Blvd  
Warrensville Heights,  
44122**

To reserve your seat and updated details, visit

<http://www.clevelandieee.org/events/lab-on-a-chip>

**Presenter and organizer:  
Varun Kopparthy, PhD**

Research Associate, Cleveland Clinic

**Biography:** Postdoctoral researcher at Cornell University, with a focus on point-of-care nucleic acid diagnostic tools. MS and Ph.D. in biomedical engineering at Louisiana Tech University

BS BME at Jawaharlal Nehru Technological University, India.

**Presentation:**

Recent infectious disease outbreaks, such as Ebola, highlight the need for fast and accurate diagnostic tools to combat the global spread of the disease. Worldwide, infectious diseases cause 16% of deaths each year. To combat such diseases, improvements in diagnostic technologies to enable rapid and accurate detection of bacteria/viruses are needed. Lab-on-a-chip technologies have shown a promise for early diagnosis of disease conditions at the point-of-care.

This presentation summarizes the development of lab-on-a-chip devices for biotechnology applications utilizing highly sensitive thermoelectric sensors and nucleic acid detection for point-of-care applications.