

**Translational Health Science and Technology Institute  
NCR Biotech Science Cluster,  
Faridabad - 121001 (HARYANA)**

## Guest Lecture

# Nanopore sequencing technologies' case studies from Genotypic in Healthcare and Agriculture.

By

**Dr. Deepti Saini (Principal Scientist, Genotypic Technology)**

Date	3 <sup>rd</sup> October 2016, Monday.
Time	2:00 – 3.00 PM
Venue	THSTI, Faridabad
Coordinator	Dr. Krishnamohan Atmakuri

### Abstract

Third-generation DNA sequencing technologies like Oxford Nanopore are capable of generating ultra-long reads of up to 300 kb and provides a rapid, affordable and portable real-time sequencing solution. Results from collaborative projects at Genotypic on successfully applying long read technology for Dairy product metagenomics sequencing bacterial and plant viral sequencing will be presented. Interestingly beyond bacteria, fungi, bacteriophage were found to be present in the products. We will also be discussing on various Bacterial, Viral Whole genome projects executed on Nanopore at the R&D lab in Genotypic. We will be demonstrating the handheld sequencer and how it can be applied in basic and applied research.

### Speaker profile

Dr. Deepti Saini, Principal Scientist at Genotypic is a Molecular Biologist and has a PhD from AIIMS, New Delhi (2004). She has done her post doctoral studies on Mechanisms of Chronic rejection post-organ Transplantation at Washington University in Saint Louis, Missouri, USA (2005-2010). She is been associated with Genotypic from 2011 at various managerial roles and currently heads the Nanopore Lab.