



**DEPARTMENT OF GENOMIC SCIENCE
SCHOOL OF BIOLOGICAL SCIENCES
CENTRAL UNIVERSITY OF KERALA**

17th December, 2019

Talk & Demo on Nanopore Sequencing

Name: Dr. Venkatesh Krishnamurthy, Genotypic Tech., Bangalore

Venue: 2nd M.Sc. Class room (R. No. 220), Dept. of Genomic Science, Krishna Block

Date & Time: 18th December 2019 @ 11.00 AM ~ 1 PM

Topic: Nanopore Technology and its Applications in Genomics Research

All are Welcome

Sd-/
Head
Dept. of Genomic Science



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Talk & Live Nanopore Run

Nanopore technology and its applications in genomics research

Date : 18 December 2019

Time : 11:00 AM to 1 PM

Venue : Central University of Kerala, Kasaragod



Speaker's profile

Dr. Venkatesh Krishnamurthy is the Director of Nanopore Business at Genotypic Technology, Bangalore. He has done his Ph.D. from NCBS Bangalore and did his post doctoral studies at the University of Lausanne, Switzerland. He has research experience in molecular genetics and genomics and has many publications to his credit.. Dr. Venkatesh was previously associated with Genotypic as R&D Director and has been instrumental in acquiring and nurturing several collaboration.

Abstract

Third-generation DNA sequencing technologies are creating revolution in high-quality genome sequencing. Unlike second-generation sequencing that produce short reads of a few hundred base-pairs, third-generation sequencing technologies such as Oxford Nanopore generate ultra-long reads of up to 300 kb. Nanopore technology provides rapid, cheap and portable real-time sequencing solution for every lab in wide variety of applications including sequencing of bacterial and viral whole genome, long amplicon, metagenome, methylation and detection of structural variation. Chemistry behind the Nanopore sensing and its applications in research will be discussed. Selected research outcomes from Nanopore sequencing projects at Genotypic's DSIR R&D will be presented too.

Agenda

11:00 AM	Introduction to Next generation Sequencing Technology
11:45 AM	Initiating the Nanopore run - Demo
12:30 PM	Q&A
01:00 PM	Closure

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Key words: Next-generation sequencing, Nano-pore sequencing, Basics, Live Demo



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