

11th Hands-On Training Program “Genomics and Transcriptomics”



Jointly organizing by
Centre for Functional Genomics & Bioinformatics, TDU
Bengaluru Genomics Centre (BGC)

April 01 - 06, 2019

Program Directors:

- **Dr. Malali Gowda**, Professor & Head,
Centre for Functional Genomics and
Bio-informatics, TDU
- **Dr. Pruthvi Chakravarthi T**, CEO,
Bengaluru Genomics Centre (BGC)

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Preamble:

The progress of science is punctuated by the advent of revolutionary technologies that provide new ways and scales to formulate scientific questions and advance knowledge. **Next-generation sequencing (NGS)** technology, with its high-throughput capacity and low cost, has developed rapidly in recent years and become an important genome-wide tool to discover new **genes, genomes and its elements**. The expression of genome called “**Transcriptome or RNA world**” is complex and composed of varied transcripts per gene. Computational tool are evolving with speed and accuracy to address problems of genomes and transcriptomes. Hand-holding of participants and mentoring by genome experts throughout this training will create an ecosystem for experiential learning in real time.

Theme:

- BIG-BANG of GENOMIC Science
- Avenue and Opportunities in Genomics
- Challenges in Bioinformatics & Data Science
- Agglomeration of “Pure & Digital” Sciences

Mission Accomplished (2017-18):

- Created “Genomics Ecosystem” in the country by conducting 10 training programs
- Trained > 200 Scientists (Streams of Biology, Engineering, Technology).
- Achieved 100 % literacy by participants in the areas of Genomics and Bioinformatics.

Day	Schedule
01.04.2019 (Monday)	<ul style="list-style-type: none">• Plenary Lecture on Next Generation Sequencing (NGS) technologies and Applications• Hands on: Sample collection, Storage and Processing, DNA isolation and Quality check
02.04.2019 (Tuesday)	<ul style="list-style-type: none">• Hands on: NGS library preparation• DNA Sequencing using NGS platform
03.04.2019 (Wednesday)	<ul style="list-style-type: none">• Hands on: Basic of computing (Linux) and high-end server• <i>De novo</i> based Assembly and Annotation of Genomes
04.04.2019 (Thursday)	<ul style="list-style-type: none">• Hands on: Transcriptomics - <i>De novo</i> based Assembly and Annotation

Cont.

Day	Schedule
05.04.2019 (Friday)	<ul style="list-style-type: none"> • Hands on: R-programming applications in NGS data analysis • Hands on: Transposon Annotation from assembled genomes
06.04.2019 (Saturday)	<ul style="list-style-type: none"> • Hands on: NGS data submission to NCBI database • Genome browser and databases • Intellectual Property Rights (IPR) and Manuscript Writing

Who Can Participate?

Students, Faculty and Scientists from Academia and Industries including Life Sciences, Biology, Computer , Medicine, Agriculture, Veterinary, Environmental Science and any other disciplines.

Computer Support:

We will be providing computers/server with required programs and software for the participants.

Registration Fee (INR)

Under Graduation Students	12,000
Master Graduation Students	13,000
Research Scholars	15,000
Postdoctoral Researchers	17,000
Faculty	20,000
Industrial Personnel	23,000

Registration Link:

<http://tdu.edu.in/genomics/genomics-events/>

Last Date for Registration:

March 25, 2019 (Limited seats)

No refund for cancellation of registration.

Payment Mode NEFT (Online):

Account Name: UTD-HST General Fund

Account Number: 0694104000134705

IDBI Bank, Yelahanka New Town, Bangalore-560064,

IFSC: IBKL0000694, **MICR:** 560259014

The Demand Draft in favour of “**UTD-HST**” and payable at Bengaluru

Postal Address:

The University of Trans-Disciplinary Health Sciences and Technology (TDU),
74/2, Jarakabande Kaval, Post Attur via Yelahanka, Bengaluru, Karnataka,
PIN- 560064

Accommodation and Food:

It will be arranged based on request latest by **25th March 2019** with additional charges

Organizing Secretary

**Ms. Divya RB,
Dr. Niranjana Kumar,**

CENTER FOR FUNCTIONAL GENOMICS AND BIOINFORMATICS

THE UNIVERSITY OF TRANS-DISCIPLINARY HEALTH SCIENCES AND TECHNOLOGY

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