

# “Innovative & Successful Program to bridge the gap between Computation and Biology”



THE UNIVERSITY OF TRANS-DISCIPLINARY  
HEALTH SCIENCES & TECHNOLOGY



## 14<sup>th</sup> NGS Training Program 'Genomics and Metagenomics'

Jointly organized by

Centre for Functional Genomics & Bioinformatics, TDU

and

Bengaluru Genomics Centre (BGC)

July 29<sup>th</sup> - August 1<sup>st</sup>, 2019



Bengaluru Genomics Center  
Heredity Decoder

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Career Path counselling exclusive on Genomics Bioinformatics & Industry interaction

### Program Directors:

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

### 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**. **Metagenomics** aids in analyses of unculturable microbes and understand the correlation the microbial genomes with the environment. Computational tools are evolving with speed and accuracy to address problems of genome and transcriptome. **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 (2017-19):

- Created “Genomics Ecosystem” in the country by conducting 10 training programs
- Trained > 450 Scientists (Streams of Biology, Engineering, Technology).
- Achieved 100 % Literacy by participants in the areas of Genomics and Bioinformatics,

### For more details visit

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

### 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.

### Accommodation:

It will be arranged based on request, with additional charges  
(Contact: +91 9972490101)

### Computer Support:

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

Day	Schedule
Day 1 29.07.2019 (Monday)	Introduction talk on Next Generation Sequencing (NGS) technologies and Applications. <b>Hands on:</b> Sample collection, DNA isolation for Whole Genome and Metagenome Analysis, Polymerase Chain Reaction.
Day 2 30.07.2019 (Tuesday)	<ul style="list-style-type: none"><li>• <b>Hands on:</b> Whole Genome Sequencing Library construction &amp; Sequencing (Oxford Nanopore platform)</li><li>• Demo on Illumina Platform</li></ul>
Day 3 31.07.2019 (Wednesday)	<ul style="list-style-type: none"><li>• <b>Hands on:</b> Basic of computing (Linux) and high-end server</li><li>• WGS Data Analysis <i>de novo</i> Assembly and Annotation</li></ul>
Day 4 01.08.2019 (Thursday)	<ul style="list-style-type: none"><li>• <b>Hands on:</b> Metagenome Analysis</li><li>• <b>Hands on:</b> NGS data submission to NCBI database</li><li>• Genome browser and databases</li><li>• Valedictory</li></ul>

### Registration Fee (INR)

Category	Base Fee	GST (18%)	Total fee
Under Graduation Students	7000/-	1260/-	8260/-
Post Graduation Students	9000/-	1620/-	10620/-
PhD Students	11000/-	1980/-	12980/-
Postdoctoral Researchers	13000/-	2340/-	15340/-
Faculty	18000/-	3240/-	21240/-
Industry	25000/-	4500/-	29500/-

### Registration Link:

<https://forms.gle/KDkpY1538YWoAKZN6>

### Last Date for Registration:

**July 24<sup>th</sup>, 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 “U  
TD-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,  
560064.

### Organizing Secretaries

**Ms. Annapoorna Prabhu (TDU)**

**Mr . Pushpendra Jat (BGC)**