

15th Training on “Deep Dive into RNA world and exploring basics of CRISPR”

Jointly organized by Centre for Functional Genomics
& Bioinformatics, TDU
and

Bengaluru Genomics Centre (BGC)
September 16 -20, 2019

Career Path-Exclusive counselling on Genomics, Bioinformatics
and Industry Interaction



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Program Directors:

- **Dr. Malali Gowda**, Professor & Head,
Center for Functional Genomics and Bioinformatics,
TDU
- **Dr. Pruthvi Chakravarthi T**, CEO,
Bengaluru Genomics Centre

Training Theme

- Next Generation Sequencing (NGS) is a recent technological revolution in life science that transformed our understanding of life's genome landscape
- Present training helps to get a deeper understanding in NGS technology with a special focus on RNA world and transcriptome analysis
- Teach the fundamentals of NGS workflow from sample preparation to sequencing.
- Introduce Gene Editing tools

Objectives

- Training capitalizing human resources to carry out NGS and transcriptome analysis.
- Carry out high throughput research using genomic tools to foster trans-disciplinary dialogues in functional genomics.

Mission Accomplished (2017-19):

- Created “Genomics Ecosystem” in the country by conducting 14 training programs
- Trained > 500 Scientists (Streams of Biology, Engineering , Technology).
- Achieved 100% literacy by participants in the areas of Genomics and Bioinformatics, more details at:
<http://tdu.edu.in/genomics/genomics-events/>

Who can participate?

Students, Faculty and scientists from academia, industries including Life Sciences, Biology, Computer, Medicine, Agriculture, Veterinary, Environmental Science and any other disciplines.

Accommodation and food:

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

Computer Support:

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

Organizing Secretaries:

Nagendra MC, BGC
Santhosh Hegde, TDU

Day	Schedule
16.09.2019 (Monday)	Introduction to Next Generation Sequencing (NGS) Technology Hands on: <ul style="list-style-type: none"> • RNA Isolation • Transcriptome/RNA library preparation
17.09.2019 (Tuesday)	Hands on: <ul style="list-style-type: none"> • Transcriptome sequencing by NGS platforms • Transcriptome sequence data formats.
18.09.2019 (Wednesday)	Hands on: <ul style="list-style-type: none"> • Introduction to Bioinformatics • <i>De novo</i> based transcriptome assembly • Transcriptome quantification • Differential gene expression analysis • Functional annotation of genes
19.09.2019 (Thursday)	Hands on: <ul style="list-style-type: none"> • Reference based transcriptome assembly • NGS data submission to NCBI • Navigating Genome Browsers
20.09.2019 (Friday)	<ul style="list-style-type: none"> • Introductory talk on CRISPR CAS9 Technology and Applications • Hands on: Cloning, Ligation, Vector digestion, In-Fusion Cloning and Polymerase Chain Reaction.

Registration Fee	Amount (INR)	GST (18%)(INR)	Total (INR)
UG Students	Rs. 9000	1620	10620
PG students	Rs. 10000	1800	11800
Ph. D. Scholars	Rs. 12000	2160	14160
Post-doctoral Researchers	Rs. 14000	2520	16520
Faculty Member	Rs. 20000	3600	23600
Industrial Member	Rs. 28000	5040	33040


Registration Link: <https://docs.google.com/forms/d/1SP-pWHDJJOYUnSpR1ajxQRMpOveBL6w7vnWktLbVIHw/edit>

Last Date for Registration: 14th September, 2019 (Limited seats)

No refund for cancellation of registration.

On-Spot Registration: Extra Charges Apply

Payment Mode NEFT (Online): Account Name: ITD-HST
General Fund Account Number: 0694104000134705
IDBI Bank, Yelahanka New Town, Bangalore-560 064,
IFSC: IBKL0000694, MICR: 560259014
The Demand Draft in favour of “ITD-HST” and payable at Bengaluru

Address: 
Jarakabande Kaval, Post Attur via, Yelahanka, Bengaluru,
Karnataka – 560 064, India

Knowledge Partners

