

Trainers

Prof. Pradeep K. Naik,
Professor and Head
Dept. of Biotechnology
and Bioinformatics
Sambalpur University
Specialization:

Anticancer therapeutics,
Computer Added Drug
Designing

Dr. Birendra Behera,
Asst. Professor
Dept. of Biotechnology
and Bioinformatics
Sambalpur University
Specialization:

Anticancer therapeutics,
Cancer immunotherapy

Registration and Contact Details

Interested participants must register and only selected candidates would be invited for the workshop.

For selected candidates Registration fees, local travel, Boarding and lodging will be covered by Sambalpur University.

Link for Registration:

https://docs.google.com/forms/d/e/1FAIpQLSc5zJWXncVoB3IkgG3IEYteGnEbF4yc4s-1NgLYRfKOUaNaYkA/viewform?usp=pp_url.

Registration Deadline: 30th September 2022
Short listed candidates will be intimated by email, latest by 1st Oct 2022



Eligibility Criteria

- Minimum qualification: Post Graduate (Sciences) or B. Tech. (Biotechnology)
- Professors/Scientists/ Post-Doc Fellows/Ph. D. Fellows/ Industry persons who are actively involved in R&D
- Not more than three people from one institute.

For more Information

Access: <https://events.iitgn.ac.in/stuti/> or <http://www.suniv.ac.in/notice-board.php>

Mail: btbistuti@gmail.com

pknaik1973@suniv.ac.in

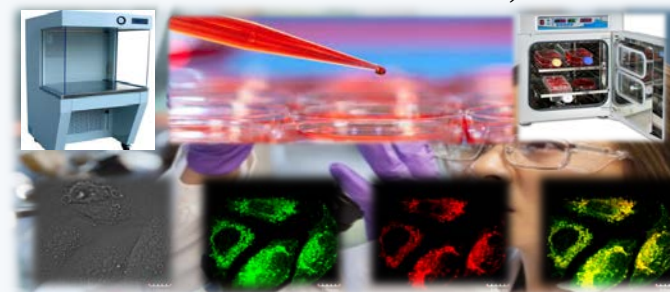
bbehera@suniv.ac.in

Address: Sambalpur University,
Po: Jyotivihar, Burla, Dist: Sambalpur,
State: Odisha, INDIA-768019

7 Day Workshop on

ANIMAL CELL CULTURE
TECHNIQUES AND SCREENING
OF DRUG MOLECULES

From 10th Oct. to 16th Oct, 2022



Department of Science & Technology (DST) funded Training workshop under STUTI
(Synergistic Training Program Utilizing the Scientific and Technological Infrastructure)



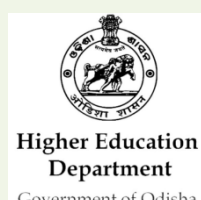
Organized by:

Department of Biotechnology & Bioinformatics
Sambalpur University
Jyoti Vihar, Sambalpur - 768 019, Odisha

In collaboration with:

Indian Institute of Technology
Gandhinagar, Gujarat

Acknowledgement



Over view of STUTI

DST welcomes all their participants for the workshop on Animal Cell Culture Technique and Screening of Drug Molecules organized under STUTI. The STUTI program envisions hands-on-training and sensitization of the state-of-the-art equipment as well as towards sharing while ensuring transparent access to S&T facilities. Department of Science and Technology has identified IIT-Gandhinagar to function as a Project Management Unit (PMU) and as co-ordinator for this workshop.

Over view of the Workshop

This workshop is aimed to provide an insight into the equipments and techniques essential for an animal cell culture lab and screening of drug molecules. The participants will be introduced to the principle of the equipments and aseptic techniques essential for maintenance of animal cell culture lab followed by procedures for efficient utilization of the cell culture facility to screen potential bioactive molecules. The participants will be provided with hands on experience for media preparation, sub-culturing, and growth curve preparation followed by drug screening through MTT assay and SRB assay etc. The participants will also have a chance to interact with experts and analyse their own samples (with prior approval).

Content of the Workshop

Session 1: Inauguration and welcome note

- A. Introduction of the Participants and the Host
- B. Overview of DST sponsored Programme

Session 2:

- A. Principle of equipments in cell culture lab
- B. Traditional method of drug screening

Session 3:

- A. Basics of Animal cell culture media
- B. Basics of drug design techniques

Session 4:

- A. Basics of cell culture initiation
- B. Virtual screening methods and advantages

Session 5:

- A. Basics of sub-culturing and growth curve
- B. Ligand based techniques of drug screening

Session 6:

- A. Cytotoxicity testing and analyzing the data
- B. ADME screening and its importance

Session 7:

- A. Screening of anticancer agents and experimental validation: a case study
- B. Analyzing and presenting results of the cytotoxicity data
- C. Collection of feedback from participants
- D. Valedictory meeting

Schedule

Day 1

- 09.00 : Breakfast and Registration
- 10.00 : Inaugural Meeting
- 11.00 : Session 1A
- 12.00 : Session 1B
- 13.00 : Lunch
- 14.00 : Lab and Campus Visit
- 15.30 : User requirements of Participants
- 16.00 : Tea/Coffee Break

Day 2

- 10.00 : Session 2A
- 11.00 : Tea Break
- 11.30 : Session 2B
- 13.00 : Lunch
- 14.00 : Lab Session
- 17.00 : Tea Break

Day 3

- 10.00 : Session 3A
- 11.00 : Tea Break
- 11.30 : Session 3B
- 13.00 : Lunch
- 14.00 : Lab Session
- 17.00 : Coffee Break

Day 4

- 10.00 : Session 4A
- 11.00 : Tea Break
- 11.30 : Session 4B
- 13.00 : Lunch
- 14.00 : Lab Session
- 17.00 : Tea Break

Day 5

- 10.00 : Session 5A
- 11.00 : Tea Break
- 11.30 : Session 5B
- 13.00 : Lunch
- 14.00 : Lab Session
- 17.00 : Coffee Break

Day 6

- 10.00 : Session 6A
- 11.00 : Tea Break
- 11.30 : Session 6B
- 13.00 : Lunch
- 14.00 : Lab Session
- 17.00 : Tea Break

Day 7

- 10.00 : Session 7A
- 11.00 : Tea Break
- 11.30 : Session 7B
- 13.00 : Lunch
- 14.00 : Session 7C
- 15.00 : Session 7D
- 16.00 : Coffee Break