



# Preclinical Drug Discovery Training- 2023

Skill Development Centre

School of Life Sciences

University of Hyderabad

22<sup>nd</sup> May – 3<sup>rd</sup> June, 2023



## Hands on Training on Preclinical Drug Discovery

### About

The ***In vitro* Preclinical Drug Discovery** workshop will provide advanced training on drug discovery and identification of a lead/hit molecules. The participants will have one to one hands on experience on different aspects of preclinical drug discovery including animal cell culture, cytotoxicity/viability assays, apoptosis assays, cell cycle analysis etc. It enables the participants to plan, carryout preclinical drug discovery, interpret and present the data.

### Target Participants

Postgraduates/PhD students / Faculty / Scientists/Industry Professionals in any branch of Life Sciences

**Number of Participants: 15**

### Methodology

Classroom and laboratory (*in vitro*) based

### Course fee

Students: Rs. 30,000/-; Faculty and industry personnel: Rs. 50,000/-

(Boarding/ Lodging and food charges extra; Shared hostel accommodation will be provided based on availability in the University Hostel / Guest house)

### Topics to be covered

- Basics of Drug Discovery – Target identification & validation
- Introduction to Molecular Modelling - CADD & SBDD
- Fundamentals of Animal Cell Culture
- Cytotoxicity assays & inhibitory concentration 50 (IC50)
- Instrument operation and setup for acquisition and analysis of flow cytometer
- Data analysis, statistics, interpretation and data presentation

### Resource Faculty / Experts

Dr. M.K. Arunasree  
Dr. Aparna Vema

### Application procedure

Submit CV and statement of purpose (SOP) to:

[sdcsls.uoh@gmail.com](mailto:sdcsls.uoh@gmail.com)

on or before 10<sup>th</sup> May, 2023.

### For further details, Contact

- Dr. Suresh Yenugu  
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