

TSCOST-DBT sponsored FACULTY DEVELOPMENT  
PROGRAMME, Skill Vigyan Initiative

# ANIMAL CELL LINE TECHNOLOGY



March 7th-17th, 2022

## COORDINATORS

Dr.A.UMA  
Centre for Biotechnology, IST,  
JNTUH, Hyderabad 500085  
Email: [vedavathi1@jntuh.ac.in](mailto:vedavathi1@jntuh.ac.in)  
Ph: 9848120819

Dr.L.SAIDA  
Head, Centre for Biotechnology,  
IST, JNTUH, Hyderabad 500085  
Email: [lavudisaida@jntuh.ac.in](mailto:lavudisaida@jntuh.ac.in)  
Ph: 9618528040

Registration Link

<https://forms.gle/xFKiHegynGHHjddf9>

Last date for registration- February 28<sup>th</sup> 2022

## Topics to be covered

- Cell culture terminology
- Layout of the cell culture laboratory
- Designing mammalian cell culture medium
- Routine maintenance of cell cultures
- Separation of viable cells from explants culture
- Cell counting & viability assay
- Cryopreservation of cells

### Topics for Hands on session

Topic
Basic cell culture concepts and terminology
Aseptic techniques and introduction to equipment used in animal cell culture lab
Sterilization of labware.
Cell Culture media: types and components, supplements
Preparation of basic media, sterilization and storage
Sterility testing of prepared media
Procurement of cultures from cell culture bank
Cell culturing from established cultures
Cell culturing from explants, handling
Disaggregation techniques and types
Monitoring the cells and change of media, tips on handling and maintaining records
Passaging , Subculturing of cells- trypsinization
Separation of viable cells from explants cultures, their transfer and maintenance
Cell counting and Cell viability assay
Cytotoxicity assay
Important considerations for successful cryopreservation and handling of instruments used for preservation
Preservation of cell cultures- short-term preservation; Long-term cryopreservation of cell cultures

## CO-COORDINATORS

Dr. Ch. Kalyani  
Centre for Biotechnology,  
JNTUH, Hyderabad 500085  
Email: kalyanichepuri@gmail.com  
Ph: 9949234486

Dr. Madhavi Gorla  
Centre for Biotechnology  
JNTUH, Hyderabad 500085  
Email: madhavigorla14@gmail.com  
Ph: 9347063301

Dr. Anjaneyulu Musini  
Centre for Biotechnology,  
JNTUH, Hyderabad 500085  
Email: anjigen@gmail.com  
Ph: 8008415285