

TSCOST-DBT sponsored FACULTY DEVELOPMENT
PROGRAMME, Skill Vigyan Initiative

ANIMAL CELL LINE TECHNOLOGY



March 7th-17th, 2022

COORDINATORS

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Registration Link

<https://forms.gle/xFKiHegynGHHjddf9>

Last date for registration- March 5th 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

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