



Workshop on 3D Spheroid and Organoid Culture Tools for Human Health Research 23-25 November, 2023

Highlights

- Fundamentals of stem cells/spheroids/organoids
- CSCs niches and tumor microenvironment
- Multicellular/single-cell derived spheroids
- Techniques of spheroid/organoid culture
- Requirements for organoid/spheroid culture
- Scaffold-free spheroid culture
- Ultra-low attachment method
- Hanging drop method
- Scaffold-based spheroid culture
- Matrix-on-top and matrix-embedded methods
- Agarose-based method
- Microfluidics device-based method
- Microgravity-based spheroid formation
- Characterization of spheroids/organoids
- Growth kinetics of spheroids/organoids
- Morphological features
- Role of spheroid/organoid culture in predicting drug sensitivity/ resistance, tumor heterogeneity and tumor evolution

Eligibility: M.Sc., PhD Students,
RA, PDF, JRF, SRF, Young
Scientists, Faculty Members
Registration Fee: Rs. 10,000

- **Test:** Exam & Assessment;
Protocol presentation;
Discussion & Evaluation
- **Attendance 100%**
- **Certificate of Competence**
(>75% marks) or
Participation, based on
scoring in the test

Seats are Limited
First-cum-first serve basis

Last Date for Registration:
20 Oct, 2023



Prof. Rana P. Singh
School of Life Sciences
Jawaharlal Nehru University

Convenors



Prof. Rupesh Chaturvedi
School of Biotechnology
Jawaharlal Nehru University

