IMMUNO-ONCOLOGY SOCIETY OF INDIA

5th Annual Congress of Immuno-Oncology Society of India

I-OSICON 2024

at National Centre for Cell Science (NCCS), Pune

12 13 14 January 2024 FRIDAY - SUNDAY

NCCS

(An Autonomous Institute of Department of Biotechnology, Government of India)

Conference Theme: **"Harnessing the potential of Cells, Metabolism and Molecules in Cancer Immunotherapy"**

Hands-on Single-Cell Multiomics Research workshop

11th January 2024 | 9:30 AM to 5:30 PM

Venue: National Centre for Cell Science (NCCS), Pune

What are the learning objectives?

- Understanding the Single cell multiomics and Applications
- Sample and library preparations for Single Cell analysis
- Hands-on session with the Spectrum flow cytometer, including instrument setup, sample preparation, and data acquisition.
- Demonstration of Cartridge cell capture workflow using Rhapsody Express
- Single cell Multiomics data analysis using bridges and SEURAT pipeline

Fees of Workshop:

- Rs. 1000 for IOSI Members
- Rs. 1500 for IOSI Non-members

REGISTER NOW

Guidelines

1. Participants must submit upto maximum 350-word Statement of Purpose (why they want to attend this workshop and how it will be helpful to them).
   Please upload a .pdf file only.
   Field name: Upload Statement of Purpose
2. The last date for applying is 15th December 2023.
3. Participant can attend only one workshop organized during the pre-IOSI2024 congress at NCCS on 11th January 2024.
4. The Selection Committee will review the application, and the selected candidate will be informed by 20th December 2023 by email.
5. Selected candidates must pay the workshop Fee within three days to secure participation.
6. Participants need to arrange their travel and accommodation in Pune.

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Agenda

9:00 AM-9:30 AM	Registration
9:30 AM-10:30 AM	Session 1: Talk on Latest trend in Single Cell Multiomics and Applications
Speaker	**Dr. Romsha Kumar** (BD)
10:30 PM-11:00 AM	Question and Answer Session
Speaker	**Dr. Romsha Kumar** (BD)
11:00 PM-11:30 AM	Tea Break
11:30 AM-1:00 PM	Session 2: Sample Preparation tips and Library preparation protocol discussion
	1. Cell viability and counting 2. Library QC 3. Types of libraries and Sequencing depth
Speaker	**Dr. Romsha Kumar** (BD)
1:00PM-2:00PM	Lunch Break
2:00PM-4:00PM	Session 3: Cartridge cell capture workflow demonstration using Rhapsody Express
	1. Demo cartridge loading to Rhapsody Express instrument 2. QC analysis by Qubit concentration and Tape station 3. Play Rhapsody Express cell capture workflow video
Speaker	**Dr. Romsha Kumar** (BD)
4:00PM-4:30PM	Tea break
4:30 PM- 5:30 PM	Session 4: Single cell Multiomics data analysis using Seven bridges and SEURAT pipeline
	1. Metric Summary 2. RSEC & DBEC output 3. QC plot 4. Clustering (Umap) 5. PCA 6. DEGs 7. Heat Map
Speaker	**Dr. Romsha Kumar** (BD)
5:30 PM	Vote of thanks