Bio-Vantages 2026:

Frontiers in Bioanalytical Instrumentation and Methodology

Master the "Bench-to-Bioinformatics" Workflow

Scientific Conference

Dates: December 14 – 17, 2026

Venue: IISER Kolkata, Mohanpur Campus

Special Cultural Outreach#

Heritage, Baul Soul, and Red Soil

Dates: December 18 – 20, 2026

Venue: Group Retreat at Shantiniketan

As biological systems grow in complexity, the gap between generating data and extracting biological meaning continues to widen. Bio-Vantages 2026 is an intensive, module-based workshop designed to bridge this divide. Join us at IISER Kolkata for a deep dive into five specialized modules that cover the full spectrum of modern bioanalytical science.

Specialised Scientific Modules

Module I: Cell View & Imaging Flow Cytometry

Training on: Fluidics/optics fundamentals, high-speed image acquisition, and isolating rare cell populations

Module II: Mimicking Tissue Microenvironment in Regenerative Medicine & Cancer

Training on: Physics of 3D bio-printing, selection of biocompatible polymers, and scaffold-guided cell growth for cancer and regenerative research

Module III: Spatial Multiomics & MALDI Tissue Imaging

Training on: Sample preparation for MALDI, Mass Spectrometry Imaging (MSI) workflow, and Spatial Transcriptomics

Module IV: Bioinformatics Pipelines for Multiomics

Training on: Linux/R-based pipelines, QC of sequencing data, and integrated analysis of Genomics, Proteomics, and Metabolomics

Module V: Statistical Analysis of High-Throughput Data

Training on: Normalization, batch effect correction, dimensionality reduction (PCA/t-SNE/UMAP), and FDR arrangement

Registration Details*

Students (BS-MS/PhD)	₹5,500/-
Post Doctoral Fellow/Teacher	₹8,500/-
Faculty	₹11,000/-
Company Personnels	₹20,000/-
Foreign Delegates	₹30,000/-

**Fees cover full accommodation (Check-in Dec 14, Check-out Dec 18). No TA/DA provided.*

#The Special Cultural Outreach trip will be self-sponsored through individual contributions. Return on December 21, 2026.

Registration begins on May 1, 2026

Apply online: https://www.iiserkol.ac.in/~baw/

Extended registration closes on November 15, 2026

At Bio-Vantages 2026, we don't just teach you how to run a machine; We empower you to produce high-quality, publishable science.

~ Prof. Jayasri Das Sarma (Convenor)

Contact: Prof. Jayasri Das Sarma | **Email:** baw@iiserkol.ac.in
IISER Kolkata, Mohanpur – 741 246, West Bengal, India
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Speakers List*

Plenary Speakers

Name	Affiliation
P Arun	Tata Medical Centre, Kolkata
Sourav Pal	Ashoka University
Krishanu Ray	BITS Pilani Hyderabad
Santanu Bhattacharya	IISER Tirupati
Sumantra Chattarji	Director, CHINTA
Shantanu Sengupta	IGIB Delhi
Tapas Kundu	JNCASR

International Speakers

Name	Affiliation
Palsamy Periyasamy	UNMC, USA
Shilpa Buch	UNMC Center for Substance Abuse Research, USA
Arghya Paul	University of Western Ontario

Participating Industries:

Scientific Personnel from Genotypic, Premas Biotech, Bruker, 10X Genomics, Miltenyi Biotec, Zeiss, Olympus/Evident, and many more...

National Speakers

Name	Affiliation
Maneesha Inamdar	Institute for Stem Cell Science and Regenerative Medicine
Abhijit Majumder	IIT Bombay
Sharmila Bapat	NCCS Pune
Ramray Bhat	IISc Bengaluru
Angshuman Bagchi	Kalyani University
Kaushik Chatterjee	IISc Bengaluru
Mitali Chatterjee	ICMR Emeritus Scientist
Syamal Roy	ICMR Emeritus Scientist
Raju Mukherjee	IISER Tirupati

Early-Career Speakers

Neha Jain	IIT Jodhpur
Poonam Thakur	IISER Thiruvananthapuram
Subhayan Sur	DY Patil
Basudeb Maji	Bose Institute
Shashank Shekhar	Centre of Biomedical Research, SGPGI Campus, Lucknow
Ranita Ghosh Dastidar	MAHE, Manipal
Sourav Banerjee	SRM IST

*These lists are tentative. Further modifications will take place.

Panel Discussion

Panel 1	**For Junior/Master's Students**	Choosing a career path in biology, deciding between a PhD or specialised tracks, and exploring alternative avenues
Panel 2	**For Senior Master's Students**	Deciding whether to pursue a PhD in India vs. Abroad
Panel 3	**For PhD & post-Doc Aspirants**	How to choose the right research lab for a PhD or post-Doc, both national and international set-up
Panel 4	**For Young Faculty**	Career strategy, balancing teaching and research, grant writing, and delivering impactful presentation styles
Panel 5	**For Returning post-Docs & Early Career Fellows**	Navigating the job market for post-Docs looking to return to India and establish their careers and finding the road-map for establishing independent research lab in Indian set-up

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