INDIAN INSTUTE OF TECHNOLOGY KHARAGPUR

WORKSHOP ON COMPUTATIONAL ONCOLOGY: CANCER AS A DYNAMIC COMPLEX SYSTEM

FEB 12 -14 | 2026

Organized by:

Department of Bioscience and Biotechnology,
IIT Kharagpur

in association with

Param Hansa Centre for Computational Oncology,
IISc Bangalore

Registration and abstract submission deadline: 30th October, 2025

About the workshop

The workshop will bring together academic researchers, clinicians, and students working in the field of theoretical and experimental cancer biology and cancer therapeutics, offering a unique opportunity to interact and develop interdisciplinary ideas. The workshop will introduce different aspects of cancer biology (dynamical models, AI/ML approaches, longitudinal experimental data, high-throughput multiomic data) that can impact our understanding of cancer progression and suggest novel therapeutic advances.

Target audience

This workshop is open to UG / PG students, Junior scientists, doctoral researchers, postdoctoral researchers, faculty, clinicians and industry professionals.

Coordinators

Dr. Riddhiman Dhar
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Bioengineering
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Focus areas

Mathematical and statistical approaches
Experimental cancer biology & therapeutics
Tumor microenvironment
Intratumor heterogeneity

Registration fees

Students - INR 3000
Postdocs - INR 5000
Faculty - INR 6000
Industry professionals – INR 8000

Venue

IIT Kharagpur Campus
Kharagpur, West Bengal
PIN - 721302

Accomodation

Accommodations will be available on campus on payment basis. More information will be available after shortlisting.

Confirmed speakers

Dr. Sagar Sengupta, NII and NIBMG
Dr. Gaurisankar Sa, Bose Institute
Dr. Mahitosh Mandal, IIT Kharagpur
Dr. Sandip Kar, IIT Bombay
Dr. Leelavati Narlikar, IISER Pune
Dr. Rituparna Sinha Roy, IISER Kolkata
Dr. Shaon Chakrabarti, NCBS
Dr. Satish Sankaran, Farcast Biosciences
Dr. Maya Raghunandan, IISc Bangalore
Dr. Amit Ghosh, IIT Kharagpur
Dr. Raj Kumar Manna, IIT Kharagpur
Dr. Mohit Kumar Jolly, IISc Bangalore
Dr. Riddhiman Dhar, IIT Kharagpur

About IIT Khargpur

Indian Institute of Technology Kharagpur (IIT KGP), the first and the largest among all IITs, was established in 1951 at the Hijli detention camp at Kharagpur in West Bengal, India. This is probably one of the very few Institutions in the World which started its journey in a prison house. The Institute takes pride in its relentless effort to provide the best platform for both education as well as research in the areas of science and technology, infrastructure designs, entrepreneurship, law, management, and medical science and technology. The campus is lush green, calm and quiet and free from urban noise and pollution, an ideal temple for education and research. The campus is imaginatively laid out with a beautiful lake, green parks, huge playgrounds, big auditoriums, students' hostels, residential zones for faculty and staff members, health centre, cultural-cum-social and recreational zones for campus community.

About Bioscience and Biotechnology at IIT KGP

The Department of Bioscience of Biotechnology at IIT Kharagpur currently runs 4-Years B. Tech, 5-Years dual degree (B. Tech and M. Tech), 2-Years M. Tech and Ph. D program in Biotechnology and Biochemical Engineering. In addition, the Department runs an M. Sc. program in Chemical and Molecular Biology jointly with IACS, Kolkata. Overall, there are about 300 undergraduate, 50 postgraduate and 110 doctoral students as well as 15 postdoctoral fellows working in various fields of research encompassed by two major thrust areas namely, healthcare biotechnology and bioenergy. There are 19 faculty members conducting research in the areas of Computational Biology and Bioinformatics, Systems Biology, Environmental Biotechnology, Genomics, Metagenomics, Proteomics, Structural Biology, Neurobiology, Antimicrobial Chemotherapy, Virology, Bioenergy and Bioproduct Development, Genetic Engineering, Transgenic Technology, Therapeutics, Immuno-technology, and Plant Biotechnology.