



Anusandhan
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Foundation



భారతీయ సాంకేతిక విజ్ఞాన సంస్థ హైదరాబాద్
भारतीय प्रौद्योगिकी संस्थान हैदराबाद
Indian Institute of Technology Hyderabad

Workshop: Technological Advancements in Healthcare Research (for Faculty Members)

**ANRF-PAIR Program: Partnerships in Research for Advanced
Technologies in Healthcare, AI, Materials &
Energy (PRATHAME)**



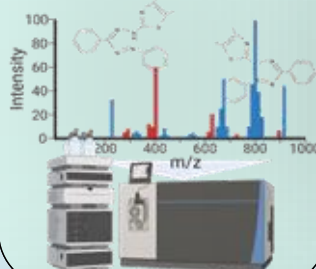
Seminar Room 1- Convention Center
Indian Institute of Technology Hyderabad
29-31 January 2026

Key points

- Recent advancements in research technologies and AI-driven approaches
- Understanding of disease mechanism
- Health-tech solutions for improved theranostics
- Four hands-on training sessions
- Lectures by eminent scientists
- Networking and collaboration in healthcare research

Hands-on training sessions

Mass spectrometry-
based metabolomics for
translational research



Electroencephalography
(EEG) and neuro
modulation



In vivo imaging for
therapeutics



Clinical AI deployability
applications



భారతీయ సాంకేతిక విజ్ఞాన సంస్థ రాయచూరు
भारतीय प्रौद्योगिकी संस्थान रायचूर
Indian Institute of Information Technology Raichur



Resource Persons

Day 1: 29 January 2026



Prof. Hemalatha Balaram

Jawaharlal Nehru Centre for Advanced Scientific Research

Metabolism in the malaria parasite *Plasmodium*



Dr. Chittaranjan Patra

CSIR-Indian Institute of Chemical Technology

Nanomaterials for biomedical applications



Dr. Aravind Kumar Rengan

Indian Institute of Technology Hyderabad

In vivo imaging for therapeutics (Hands-on training)

Dr. Swasti Raychaudhuri

CSIR-Centre for Cellular & Molecular Biology

Mass spectrometry in the omics-level study of health and disease



Dr. Sandipan Ray

Indian Institute of Technology Hyderabad

Mass spectrometry-based metabolomics for translational research (Hands-on training)



Day 2: 30 January 2026



Prof. G Narahari Sastry

Indian Institute of Technology Hyderabad

AI & ML techniques in drug discovery

Prof. V. Srinivasa Chakravarthy

Indian Institute of Technology Madras

Computational neuroscience of learning and memory



Dr. Panchatcharam Mariappan

Indian Institute of Technology Tirupati

Mathematics in clinical artificial intelligence applications



Dr. Neeraj Kumar

Indian Institute of Technology Hyderabad, India

Electroencephalography (EEG) and neuro modulation (Hands-on training)



Dr. Nagarajan Ganapathy

Indian Institute of Technology Hyderabad, India

Clinical AI deployability applications (Hands-on training)



Resource Persons

Day 3: 31 January 2026



Prof. Shekhar C. Mande

Savitribai Phule Pune University & Indian Institute of
Technology Hyderabad

Artificial intelligence in biology



Prof. Kumarasamy Thangaraj

CSIR-Centre for Cellular & Molecular Biology

Population genomics for public health



Dr. Suseela Kodandapani

Basavatarakam Indo American Cancer Hospital & Research Institute

Myths vs facts of cancer

IIT Hyderabad Organizing Committee: Dr. Sandipan Ray (Thematic coordinator - Healthcare), Dr. Aravind Kumar Rengan, Dr. Neeraj Kumar, Dr. Nagarajan Ganapathy, and Prof. Chandra Shekhar Sharma (IITH ANRF-PAIR Program Coordinator)

Contact: Dr. Sandipan Ray, Department of Biotechnology, IIT Hyderabad, Kandi, Sangareddy 502284, Telangana, India; Email: sandipan.ray@bt.iith.ac.in; Mob: +91-8790343903