



Anusandhan
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భారతీయ సాంకేతిక విజ్ఞాన సంస్థ హైదరాబాద్
भारतीय प्रौद्योगिकी संस्थान హైదరాబాద్
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)

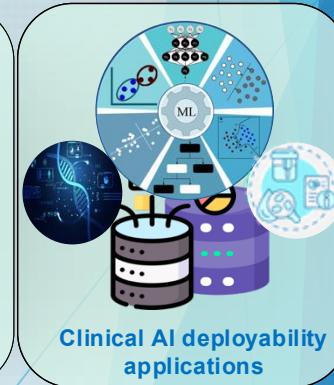
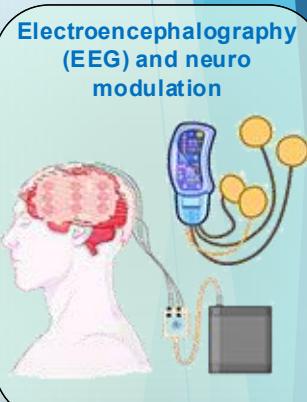
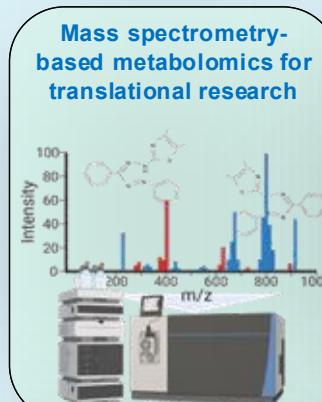


Seminar Room 1- Convention Center
Indian Institute of Technology Hyderabad
29-31 January 2026

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



భారతీయ మాక్ష రంగభూమి సంస్థ డాయిజెట
भारतीय సువా ప్రौద్యోగికి సంస్థ
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. Swasti Raychaudhuri

CSIR-Centre for Cellular & Molecular Biology

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



Dr. Chittaranjan Patra

CSIR-Indian Institute of Chemical Technology

Nanomaterials for biomedical applications



Dr. Sandipan Ray

Indian Institute of Technology Hyderabad

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



Dr. Aravind Kumar Rengan

Indian Institute of Technology Hyderabad

In vivo imaging for therapeutics (Hands-on training)



Day 2: 30 January 2026

Prof. V. Srinivasa Chakravarthy

Indian Institute of Technology Madras

Computational neuroscience of learning and memory



Prof. G Narahari Sastry

Indian Institute of Technology Hyderabad

AI & ML techniques in drug discovery



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

Basavatarikam 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)

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