

ADT-2024
International Conference on “Advancements in Diagnostic Technologies: Global Healthcare Monitoring”
November 15-17, 2024

ADT-2024			
UPDATED PROGRAMME SCHEDULE			
Venue: Institute Seminar Hall			
Code	Duration	Speaker	Mode of Talk
Day 1 (Nov 15, 2024)			
Inauguration and Plenary Talk PL-01	1:30-2:45 p.m.	Inauguration ceremony and Plenary Talk by Prof. Suman Chakraborty, IIT-KGP <i>Title: Community Transformation via Democratized Diagnostic Technologies for the Underserved</i>	(In person)
High Tea (2:45-3:30 p.m.)			
Session 1 [3:30-6:10 p.m.]			
Biomarker Discovery and OMICS Technology in Disease Diagnosis			
PL-02	3:30-4:00 p.m.	Prof Elizabeth Anne Howlett Hall, Cambridge University, UK <i>Title: Biosensors without frontiers: nucleic acid testing in low resource areas</i>	(In person)
PL-03	4:00-4:30 p.m.	Dr. Ashok Sharma, AIIMS Delhi, India <i>Title: The iOncology.ai Platform: Transforming Ovarian Cancer Diagnosis Through Novel Biomarker Discovery.</i>	(In person)
IL-01	4:30-4:50 p.m.	Dr. Moh'd Khushman, Washington University, USA <i>Title: Clinical innovations in cancer screening, monitoring and treatment</i>	(In person)
IL-02	4:50-5:10 p.m.	Dr. Aastha Mishra, CSIR-IGIB, New Delhi, India <i>Title: Integrated omics approach to delineate high altitude physiology and pathophysiology</i>	(In person)
IL-03	5:10-5:30 p.m.	Dr. Ashish Gupta, SGPGIMS, Lucknow, India <i>Title: Non-Invasive Urinary Prothrombin Fragment 1+2 to Measure Blood Coagulation Indices</i>	(In person)
IL-04	5:30-5:50 p.m.	Dr. Ravi Kumar Arun, IIT Jammu, India <i>Title: Microfluidic Lab on Chip Devices for Affordable Healthcare</i>	(In person)
OP-01	5.50-6:00 p.m.	Smriti Jha <i>Title: Identification Of Genetic and Blood-Based Biomarkers Which Increase Risk of Cognitive Decline in Stroke Patients.</i>	
OP-02	6:00-6:10 p.m.	Puja Sinha <i>Title: Namp1 Activator P7C3 Ameliorates Diabetes and Improves Skeletal Muscle Function Modulating Cellular Metabolism.</i>	(Online)
Dinner (7:30 p.m.-9:00 p.m.)			
Day 2 (Nov 16, 2024)			
Breakfast (7:30 a.m.-9:00 a.m.)			
Session 2 [9:00-11:30 a.m.]			
Advancements in Cancer Diagnostics and Liquid Biopsy			
PL-04	9:00-9:30 a.m.	Prof. Bushra Ateeq, BSBE, IIT Kanpur, India <i>Title: Mechanistic underpinnings and therapeutic interventions for the major prostate cancer subtypes</i>	(In person)
PL-05	9:30-10:00 a.m.	Prof. Chandrasekhar Kanduri, University of Gothenburg, Sweden <i>Title: Decoding Long Non-coding RNAs: From Cancer Pathways to Therapeutic Targets</i>	(In person)
IL-05	10:00-10:20 a.m.	Dr. Kanhaiya Singh, University of Pittsburgh, USA <i>Title: Tissue nanotransfection-based Cell Specific Epigenetic Editing in vivo to Rescue Diabetic Ischemic Tissue</i>	(In person)
IL-06	10:20-10:40 a.m.	Dr. Monika Sachdev, CSIR-CDRI, Lucknow, India <i>Title: Germ Cell Maturation Markers Can Serve as Early</i>	(In person)

ADT-2024
International Conference on “Advancements in Diagnostic Technologies: Global Healthcare Monitoring”
November 15-17, 2024

		<i>Diagnostic Markers in Cancers and Targets for Immunotherapy</i>	
IL-07	10:40-11:00 a.m.	Prof. Subash Chandra Gupta, AIIMS Guwahati, India <i>Title: Deciphering the Potential of Long Non-Coding RNA as Molecular Signatures in Gallbladder Cancer</i>	(Online)
OP-03	11:00-11:10 a.m.	Sakshi Singh <i>Title: Gene Expression analysis of m6A (N6-methyladenosine) methylation modifiers in epithelial ovarian cancer</i>	
OP-04	11:10-11:20 a.m.	Shivani Kumari <i>Title: 1H-NMR driven identification of vulnerable metabolites and pathways in renal cell carcinoma</i>	
OP-05	11:20-11:30 a.m.	Namita Jaiswal <i>Title: Development of a Microfluidic Platform Integrated Electrochemical Biosensor with Antibody Functionalized Nanogold Array-Decorated CNT Nanocomposite for Circulating Tumor Cell Detection</i>	
Tea Break (11:30-11:45 a.m.)			
Session 3 [11:45 a.m.-1:35 p.m.] Nanotechnology in Disease Diagnostics			
PL-06	11:45a.m.-12:15p.m.	Dr. Pranjal Chandra, IIT-BHU, Varanasi, India <i>Title: Intelligent Nanobioengineering for affordable sensing devices</i>	(In person)
IL-08	12:15-12:35 p.m.	Dr. Gorachand Dutta, IIT-KGP, India <i>Title: Nanobio Technology Enabled Electrochemical Sensor Devices for On-site Monitoring</i>	(In person)
IL-09	12:35-12:55 p.m.	Dr. Amit Jaiswal, IIT-Mandi, India <i>Title: Gold-based plasmonic nanostructures for sensing and biomedical applications</i>	(In person)
IL-10	12:55-1:15 p.m.	Dr. Santosh Kumar Misra, IIT-Kanpur, India <i>Title: Nanocarbon: Template material for Generating New Generation Diagnostics.</i>	(In person)
IL-11	1:15-1:35 p.m.	Dr. Sumit Kr Singh, IIT-BHU, Varanasi, India <i>Title: Identification of critical quality attributes of biotherapeutics: Case studies</i>	(In person)
Lunch Break + Poster session (1:35-3:00 p.m.)			
Session 4 [3:00 p.m.-5:30 p.m.] Point of Care Diagnostics, Miniaturization and Automation			
PL-07	3:00 p.m.-3:30 p.m.	Dr. Sandeep Kr. Vashist, Fapon Biotech Inc., Germany <i>Title: In vitro diagnostic technologies for healthcare: State-of-the-Art, trends, challenges and future direction</i>	(Online)
PL-08	3:30 p.m.-4:00 p.m.	Prof. Uday Chand Ghoshal, Gastroenterology Apollo Multispecialty Hospital, Kolkata, India <i>Title: Gastric cancer and H. pylori: The Asian and Indian enigma</i>	(Online)
IL-12	4:00 p.m.-4:20 p.m.	Prof. Satheesh Babu T. G., Amrita Vishwa Vidyapeetham, Coimbatore, India <i>Title: Development of Multicolour Emissive Colistin Carbon Dots Based Optical and Electrochemical Sensor for the Sensitive Detection of Gram-Negative Bacteria</i>	(Online)
IL-13	4:20 p.m.-4:40 p.m.	Dr. Prasoon Kumar, NIT-Rourkela, India <i>Title: Investigation into the design of paper microfluidics for manipulating flow behaviour needed for developing point-of-care diagnostic devices</i>	(In person)
IL-14	4:40 p.m.-5:00 p.m.	Dr. Vinay Patel, IIT-KGP, India <i>Title: An electropolymerized self-assembled monolayer of crystal violet for Chemiresistive hydrogen peroxide sensor</i>	(In person)

ADT-2024
International Conference on “Advancements in Diagnostic Technologies: Global Healthcare Monitoring”
November 15-17, 2024

OP-06	5:00 p.m.-5:10 p.m.	Mandeep Singh <i>Title: CRISPR-Driven Point-of-Care Nucleic Acid Assays for Infectious Disease Detection</i>	
OP-07	5:10 p.m.-5:20 p.m.	Smriti Singh <i>Title: A Label-Free Electrochemical Aptasensor for Sensitive Detection of Staphylococcal Enterotoxin type A</i>	
OP-08	5:20 p.m.-5:30 p.m.	Pragyan Ray <i>Title: Manipulating Fluid Flow to Achieving Enhanced Mixing in Microporous Paper</i>	
Tea Break (5:30-5:45 p.m.)			
Session 5 [5:45 p.m.-7:00 p.m.] Point of care diagnostics			
PL-09	5:45p.m.-6:15 p.m.	Prof. Sathees C. Raghavan, IISc Bangalore, India <i>Title: Discovery of a Promising Cancer Therapeutic: The Novel BCL2 Inhibitor, Disarib</i>	(In person)
IL-15	6:15p.m.-6:35 p.m.	Dr. Zineb Qmichou, MAScIR, Morocco, Africa <i>Title: Diagnostic Solutions: MAScIR's R&D Kits Experience in Morocco</i>	(In person)
IL-16	6:35p.m.-6:55 p.m.	Dr. Arindam Chakraborty, Enzene Biosciences Ltd, Pune, India <i>Title: Democratizing access to life-saving medicines through fully connected continuous manufacturing (FCCM)</i>	(In person)
Cultural Programme (7:30 p.m.-8:30 p.m.)			
Dinner (8:30 p.m.-10:00 p.m.)			
Day 3 (Nov 17, 2024)			
Breakfast (7:30 a.m.-9:00 a.m.)			
Session 6 [9:00-10:25 a.m.] [LHC-3] Young Scientist Award presentations			
YSA-01	9:00-9:20 a.m.	Amit Kumar Yadav <i>Title: In Vitro Selection, and Characterization of High-Affinity Cag A-Targeting Aptamers for Early-Stage Detection of Gastric Cancer</i>	
YSA-02	9:20-9:40 a.m.	Piyush Kumar Gupta <i>Title: Development of cysteamine modified carbon dots from Ruellia simplex: an in vivo toxicological analysis in fruit fly for potential bioimaging</i>	
YSA-03	9:40-9:55 a.m.	Priyanka Gautam <i>Title: Comprehensive DNA Methylation Analysis Using MeDIP-NGS Reveals Potential Genes and Pathways Involved in Epithelial Ovarian Cancer</i>	
YSA-04	9:55-10:10 a.m.	Rohini Kumari <i>Title: Hperoxide-Check: An Automated Nanoanalytical Device for Onsite Hydrogen Peroxide Quantification</i>	
YSA-05	10:10-10:25 a.m.	Shweta Lal <i>Title: A Flexible Non-Enzymatic Electrochemical Sensor for the Sensing of Urinary Biomarkers</i>	
Parallel Session 6 [9:00-11:00 a.m.] [Institute Seminar Hall]			
PL-10	9:00-9:30 a.m.	Prof. Sanket Goel, BITS Pilani, Hyderabad Campus, India <i>Title: Revolutionizing Diagnostic Monitoring: Advances in Biomarkers, Microfluidics, and Point-of-Care Technologies for Global Health</i>	(Online)
IL-18	9:30-9:50 a.m.	Dr. Manish Kr. Gupta, Veer Bahadur Singh Purvanchal University, Jaunpur-India <i>Title: Omics and Integrative Biology Based Approach for Investigation of Key Regulators, Drug Targets and Complexity Involved in The Disease Pathway</i>	(In person)

ADT-2024
International Conference on “Advancements in Diagnostic Technologies: Global Healthcare Monitoring”
November 15-17, 2024

Flash Talk 01	9:50-10:00 a.m.	Prof. Elizabeth Anne Howlett Hall, Cambridge University, UK	
Flash Talk 02	10:00-10:10 a.m.	Mr. Ashish Dubey, Redcliffe Labs, India	
Flash Talk 03	10:10-10:20 a.m.	Ms. Ankita Sharma, Wiley Publishing Group	
OP-09	10:20-10:30 a.m.	Natish Kumar <i>Title: Rapid Detection of HPV Using a Microfluidic Device Integrated with Lateral Flow Assay for Point-of-Care Diagnostics</i>	
OP-10	10:30 -10:40 a.m.	Shrikant Kashyap <i>Title: An Indigenous Colorimetric Sensor for Monitoring Total Iron in Water Samples for Healthcare Applications</i>	
OP-11	10:40 - 10:50 a.m.	Upasana Gupta <i>Title: Bio-Inspired Self-Pumping Microfluidic Device for Cleaning of Urea Using Reduced Graphene Oxide (rGO) Modified Polymeric Nanohybrid Membrane</i>	
OP-12	10:50- 11:00 a.m.	Sonia Sarangi <i>Title: Electrochemical and Computational Insights into Phenylalanine Detection Via PANI-MIPs</i>	
Tea Break (11:00-11:15 a.m.)			
Session 7 [11:15 a.m. -1:35 p.m.] AI & ML in Diagnostics, Precision Medicine and Digital Health			
IL-19	11:15 a.m.-11:35 a.m.	Dr. Devashish Rath, BARC, Mumbai, India <i>Title: CRISPR-Cas Based Point-Of-Care Diagnostics for Infectious Diseases</i>	(In person)
IL-20	11:35 a.m.-11:55 p.m.	Dr. Mitradip Bhattacharjee, IISER Bhopal, India <i>Title: Flexible and Printed Graphene FET: A Way Forward Towards Disposable Biosensing</i>	(In person)
IL-21	11:55 p.m.-12:15 p.m.	Dr. Ashutosh Kr. Mishra, IIT-Hyderabad, India <i>Title: Designing novel flavin as small molecule chemical construct for biomedical applications</i>	(In person)
IL-22	12:15 p.m. -12:35 p.m.	Dr. Saurabh Kumar, NIPER Guwahati, India <i>Title: Advanced materials in wearable sensors for healthcare monitoring</i>	(In person)
IL-23	12:35 p.m. -12:55 p.m.	Dr. Anand Kumar M, NITK-Surathkal, India <i>Title: Exploring the Future: Insights and Advancements in Multimodal Large Language Models</i>	(Online)
IL-24	12:55-01:15 p.m.	Prof. Cathal Gurrin, Dublin City University, Ireland <i>Title: Harnessing Lifelogs for Personal Wellness: AI-Enhanced Approaches to Wellbeing</i>	(Online)
OP-13	01:15-01:25 p.m.	Meghna Desai <i>Title: Improving gait event detection: evaluating feature selection methods for multivariate time series</i>	
OP-14	01:25 -1:35 p.m.	Poluri Priyanka <i>Title: Endoscopy images classification using deep fusion of cnn models</i>	
Lunch Break (1:35 -2:45 p.m.)			
Valedictory Session [3:00-5:00 p.m.]			
Tea Break			