



7<sup>th</sup> Edition

Microfluidics and  
**LAB-ON-A-CHIP INDIA**  
 April 30 - May 1, 2026 • 2:00 pm to 6:00 pm IST  
*Online*

#MLC26

Pharmaceutical • Bioorganic • Analytical • Diagnostics

## Microfluidics and Lab-on-a-Chip (MLC26)

30 Apr 2026 - 01 May 2026

### CONFERENCE PROGRAMME

#### Thursday, 30th April 2026

14:00	<b>Inauguration</b>
14:05	<b>Welcome Address</b> Sanjay Bajaj , CEO & MD , Glostem Private Limited , India
14:10	<b>Address by the Chief Guest</b> Shantanu Bhattacharya , Director , CSIR-Central Scientific Instruments Organisation , India
14:20	<b>Session 1: FOUNDATIONS OF MICRO &amp; NANOFUIDICS: ENGINEERING &amp; SCALABLE FABRICATION TECHNOLOGIES</b>
14:25	<b>Integrated Lab-on-Chip Architectures for Point-of-Care Bio and Environmental Sensing</b> Satish Kumar Dubey , Associate Professor, Mechanical Engineering , BITS Pilani, Hyderabad , India
14:45	<b>Diagnostics using Impedance Spectroscopy</b> Shantanu Bhattacharya , Director , CSIR-Central Scientific Instruments Organisation , India
15:05	<b>Translating Electronic Field Effect Transistors from Lab to Practice</b> Chirasree Roy Chaudhuri , Associate Dean, Consultancy Professor , Indian Institute of Engineering Science and Technology, Shibpur , India
15:25	<b>Development of Innovative Point-of-Care Microdevices</b> Amit Agrawal , Professor, Mechanical Engineering , Indian Institute of Technology Bombay , India
15:45	<b>Session 2: FRONTIER CHEMISTRY: BIOORGANIC, MEDICINAL, AND SYNTHETIC CHEMISTRY USING MICROFLUIDICS</b>
15:50	<b>Microfluidic synthesis:-Application in Medicinal and Synthetic Chemistry</b> Gary Tarver , Site Head , Chemveda Life Sciences , United Kingdom
16:10	<b>Microfluidics as a Scalable Strategy for Continuous-Flow Chemical Synthesis</b> Paul Watts , Research Chair in Microfluidic Bio/Chemical Processing , Nelson Mandela University , South Africa

16:30	<b>Machine Learning Meets Microfluidics: Rapid Optimisation of Continuous-Flow API Synthesis</b> <b>Clodius Ray Sagandira</b> , Principal Researcher , Council for Scientific and Industrial Research , South Africa
16:50	<b>Session 3: THE MICROFLUIDICS INNOVATION ECOSYSTEM 1</b>
16:55	<b>High Content Screening in Microfluidic Devices</b> <b>Amit Bhat</b> , Business Development Manager , Molecular Devices , India
17:10	<b>Microfluidic device fabrication using soft lithography</b> <b>Devendra Rawat</b> , National Sales Manager , SIMCO Global Technology & Systems , India
17:25	<b>Digital Posters 1-10</b>

## Friday, 1st May 2026

13:30	<b>Day 2 Opening Session &amp; Highlights from Day 1</b>
13:35	<b>Robust Viral RNA Sensing Using Non-Negative Matrix Factorization of Optical and Electrochemical Signals</b> <b>Shantanu Bhattacharya</b> , Director , CSIR-Central Scientific Instruments Organisation , India
13:50	<b>A Vision-Guided and Deep-Learning Based Automation System with PCB-Based Digital Microfluidic Biochips</b> <b>Sudip Roy</b> , Associate Professor, Computer Science and Engineering , Indian Institute of Technology, Roorkee , India
14:00	<b>Session 4: DIAGNOSTICS, BIOSENSORS, AND BIOMEDICAL MICROFLUIDIC DEVICES</b>
14:05	<b>From Lab to Clinical Trial: Lateral Flow Prototyping for Childhood Diarrhea and Sepsis, and Modified Microfluidic Systems for Particle Engineering</b> <b>Amit Asthana</b> , Professor and Head, Pharmaceutical Analysis , NIPER Hyderabad , India
14:25	<b>Designing wearable sweat sensors - bioinspired approaches</b> <b>Siddhartha Panda</b> , Professor, Chemical Engineering , Indian Institute of Technology Kanpur , India
14:45	<b>Emerging Microfluidics: Applications in Energy and Healthcare</b> <b>Bhanu Prakash</b> , Scientist E (Associate Professor) & Group Leader, Microfluidics Research Laboratory , Institute of Nano Science & Technology , India
15:05	<b>Session 5: PRECISION ANALYSIS USING MICROFLUIDICS: BIO-ANALYTICAL SYSTEMS &amp; OMICS</b>
15:10	<b>Sensors &amp; Remediation for Environment Monitoring; A step towards Sustainability</b> <b>Suman Singh</b> , Scientist-F , CSIR-Central Scientific Instruments Organisation , India
15:30	<b>Frugal Microfluidics for Public Health: Rapid Detection of Ethanol Content and Food Adulterants</b> <b>Naresh Kumar Mani</b> , Professor, Biotechnology , Manipal Academy of Higher Education, Manipal , India
15:50	<b>Advance your Single cell Lab on Chip for successful omics application</b> <b>Manjunath Siddaramaiah</b> , Diagnostics and Genomics Senior FAS - APAC , Cytiva , India
16:05	<b>Session 6: DRUG DEVELOPMENT AND DEVELOPMENT OF DELIVERY SYSTEMS</b>

16:10	<p><b>Tuning microreactor synthesised quantum dots for targeted imaging and delivery</b>  <b>Dhananjay Bodas</b> , Scientist , MACS - Agharkar Research Institute , India</p>
16:30	<p><b>Programmable ultrasonic fields enhances intracellular delivery in cell clusters</b>  <b>Ashis Kumar Sen</b> , Professor, Mechanical Engineering , Indian Institute of Technology Madras , India</p>
16:50	<p><b>Design and Fabrication of Micro Array Batch for transdermal painless vaccine/drug delivery platform</b>  <b>Tarun Kanti Bhattacharyya</b> , Institute Chair Professor , Indian Institute of Technology Kharagpur , India</p>
17:10	<p><b>Session 7: THE MICROFLUIDICS INNOVATION ECOSYSTEM 2</b></p>
17:15	<p><b>Bridging Engineering and Scalable Manufacturing of Micro- and Nanofluidic Systems for Advanced Biomedical Diagnostics</b>  <b>Ragavendran Sivakumarasamy</b> , CEO &amp; Founder , Point-of-Care Microfluidics Private Limited , India</p>
17:30	<p><b>Digital Posters 11-20</b></p>
18:25	<p><b>Closing Remarks</b>  <b>Sanjay Bajaj</b> , CEO &amp; MD , Glostem Private Limited , India</p>