



WILEY



**INTERNATIONAL CONFERENCE ON ADVANCING SCIENCE AND  
TECHNOLOGIES IN HEALTH SCIENCE (IEM-HEALS 2024)**

**13<sup>th</sup> - 15<sup>th</sup> September 2024**

**Programme Schedule**

**Venue: CII Auditorium, D1, Management House, Institute of Engineering & Management (School of University of Engineering and Management), Kolkata, India**

<b>13<sup>th</sup> September 2024 Day-1</b>	
<b>Time</b>	<b>Programme</b>
<b>3:00 PM - 4:30 PM</b>	<b>Registration</b>
<p><b>Zoom link for online participants (Inaugural and all Plenary Sessions, Valedictory):</b></p> <p><a href="https://us06web.zoom.us/j/88089656927?pwd=4T2tflIKpaGwpWL2lQY0g529ncwSELB.1">https://us06web.zoom.us/j/88089656927?pwd=4T2tflIKpaGwpWL2lQY0g529ncwSELB.1</a></p> <p><b>Meeting ID: 880 8965 6927</b></p> <p><b>Passcode: 009588</b></p> <p><b><i>Inaugural Session (4:30 PM – 5:00 PM)</i></b></p> <p><b>Host - Prof. Dr. Tina De, Associate Professor, Department of Basic Science and Humanities, Institute of Engineering &amp; Management, Kolkata, India</b></p>	
<b>4:30 PM - 4:35 PM</b>	<p><b>Speech</b></p> <p><b>Prof. Dr. Satyajit Chakrabarti, <i>Director</i>, Institute of Engineering &amp; Management, Kolkata, India, <b>Conference Chair</b></b></p>

4:35 PM – 4:40 PM	<b>Speech</b> <b>Prof. Dr. Arun Kr. Bar, <i>Principal</i></b> , Institute of Engineering & Management, Kolkata, India
4:40 PM – 4:45 PM	<b>Welcome Speech</b> <b>Prof. Dr. Debasmita Bhattacharya, <i>Convenor</i></b> , IEM-HEALS 2024, <b><i>Professor</i></b> , Department of Basic Science & Humanities, Institute of Engineering & Management, Kolkata, India
4:45 PM – 4:50 PM	<b>Opening of Abstract Book and Lamp Lighting Ceremony</b>
4:50 PM – 4:55 PM	<b>Vote of Thanks</b> <b>Prof. Dr. Prabir Kr. Das, <i>Convenor</i></b> , IEM-HEALS 2024 & <b><i>Head</i></b> , Department of Basic Science & Humanities, Institute of Engineering & Management, Kolkata, India
<b><i>Global Excellence Award (5:00 PM – 6:00 PM)</i></b> <b>Host - Prof. Dr. Tina De, <i>Associate Professor</i></b> , Department of Basic Science and Humanities, Institute of Engineering & Management, Kolkata, India	
6:00 PM – 6:15 PM	<b>Tea Break</b>
<b>Plenary Session 1</b> <b>Session Chair: Prof. Dr. Saswati Barman, <i>Research Professor</i></b> , Department of Basic Science and Humanities, Institute of Engineering & Management, Kolkata, India	
6:15 PM – 7:05 PM	<b><u>Keynote Speaker</u></b> <b>Prof. Dr. Susanta Roychoudhury, <i>ICMR Emeritus Scientist</i></b> ; CSIR-Indian Institute of Chemical Biology; Honorary Advisor Research, Saroj Gupta Cancer Centre and Research Institute  <i>Title of the Talk:</i> The Hallmarks of Cancer Research: a Historical Perspective
7:05 PM – 7:55 PM	<b><u>Keynote Speaker</u></b> <b>Dr. Saurav Guha, <i>Director</i></b> of Molecular Diagnostics, New York Genome Center  <i>Title of the Talk:</i> Artificial Intelligence (AI), Application in Clinical Genomics
<b>End of Day 1</b>	

14 <sup>th</sup> September 2024 DAY-2	
Time	Programme
9:00AM – 9:50AM	Breakfast
9:50AM – 9:55AM	Welcome Speech Prof. Dr. Debasmita Bhattacharya, <i>Professor</i> , Department of Basic Science and Humanities, Institute of Engineering & Management, Kolkata, India
Contributed Technical Parallel Sessions (Tracks 1A, 1B, 2 and 3) 10:00 AM – 1:00 PM	
<p><b><u>Track 1A (T1A) Biotechnology Applications in Health Science</u></b></p> <p>Session Chair: Dr. Bratati Sikdar, <i>Senior Post-Doc Project Associate</i>, Biological Sciences, <b>Bose Institute, Kolkata.</b></p> <p>Session Co-chair: Prof. Dr. Kakoli Dutta, <i>Professor</i>, Department of Basic Science and Humanities, <b>Institute of Engineering &amp; Management, Kolkata, India</b></p> <p>Google meet link: <a href="https://meet.google.com/jrp-vduh-pnp">https://meet.google.com/jrp-vduh-pnp</a></p>	
<p><b><u>Track 1B (T1B) Biotechnology Applications in Health Science</u></b></p> <p>Session Chair: Dr. Ruma Dey Ghosh, <i>Senior Scientist</i>, <b>Netaji Subhash Chandra Bose Cancer Research Institute, Kolkata, India</b></p> <p>Session Co-chair: Prof. Dr. Amit Vij, <i>Associate Professor</i>, Department of Basic Science and Humanities, <b>University of Engineering and Management, Kolkata, India.</b></p> <p>Google meet link: <a href="https://meet.google.com/apo-uwcf-qjs">https://meet.google.com/apo-uwcf-qjs</a></p>	
<p><b><u>Track 2 (T2) Importance of Microbiology Research in Health Science</u></b></p> <p>Session Chair: Prof. Dr. Rina Rani Ray, <i>Associate Professor</i>, Department of Biotechnology, <b>Maulana Abul Kalam Azad University of Technology, Kolkata. India</b></p> <p>Session Co-chair: Prof. Dr. Pratik Talukder, <i>Associate Professor</i>, Department of Biotechnology, <b>University of Engineering and Management, Kolkata</b></p> <p>Google meet link: <a href="https://meet.google.com/kbp-ovxw-yuc">https://meet.google.com/kbp-ovxw-yuc</a></p>	

### **Track 3 (T3) Artificial Intelligence in Healthcare**

**Session Chair:** Dr. Shyama Prosad Chowdhury, *Senior Principal Engineer*, Videonetics Technology Pvt. Ltd.

**Session Co-chair:** Dr. Deboleena Sadhukhan, *Assistant Professor*, Department of Biomedical Engineering, College of Engineering and Technology, SRM Institute of Science and Technology (SRMIST)

**Session Co-chair:** Prof. Dr. Arnab Basu, *Associate Professor*, Department of Basic Science and Humanities, Institute of Engineering & Management, Kolkata, India.

**Google meet link:** <https://meet.google.com/qfz-jnuf-zdn>

*Parallel Poster Sessions*  
*10:00 AM – 1:00 PM*

*Model Exhibition*  
*10:00 AM – 1:00 PM*

### **Plenary Session 2**

**Session Chair:** Prof. Dr. Sharmistha Ghosh, *Professor*, Department of Basic Science and Humanities, Institute of Engineering & Management, Kolkata, India

#### **Keynote Speaker**

**Prof. Dr. Arindam Maitra**, *Associate Director & Professor*  
Biotechnology Research and Innovation Council-National Institute of  
Biomedical Genomics (BRIC-NIBMG)

**Title of the Talk:** Immune Cell Gene Expression Mileu Reveals Novel Insights in  
Human Health: The “Enterprise Exploration”

**1:10 PM –  
2:00 PM**

**2:00 PM –  
3:00 PM**

**Lunch**

### **Plenary Session 3**

**Session Chair:** Prof. Dr. Sharmistha Ghosh, *Professor*, Department of Basic Science and Humanities, Institute of Engineering & Management, Kolkata, India

<b>Session Co-ordinator: Prof Dr. Subhamoy Banerjee, <i>Associate Professor</i>, Department of Basic Science and Humanities, Institute of Engineering &amp; Management, Kolkata, India</b>	
<b>3:00 PM – 4:00 PM</b>	<p style="text-align: center;"><b><u>Workshop Session 1</u></b></p> <p><b>Prof. Dr. Rajiv Kar</b>, <i>Assistant Professor</i>, Jyoti and Bhupat Mehta School of Health Sciences &amp; Technology; Associate Faculty, Centre for Nanotechnology, Indian Institute of Technology Guwahati</p> <p><b>Title of the Talk:</b> Unravelling Nanomaterial Characteristics for Biomedical Use Through Molecular Computation.</p>
<b>4:00 PM – 5:00 PM</b>	<p style="text-align: center;"><b><u>Workshop Session 2</u></b></p> <p><b>Prof. Dr. Angshuman Bagchi</b>, <i>Assistant Professor</i>, Professor of Biochemistry and Coordinator of Bioinformatics Center, Department of Biochemistry and Biophysics, University of Kalyani</p> <p><b>Title of the Talk:</b> Molecular Modelling and Docking Simulations of Protein Complex</p>
<b>5:00 PM – 5:30 PM</b>	<p style="text-align: center;"><b>Tea Break</b></p>
<p style="text-align: center;"><b>Plenary Session 4</b></p> <p><b>Session Chair: Prof. Dr. Biswadip Basu Mallik, <i>Associate Professor</i>, Department of Basic Science and Humanities, Institute of Engineering &amp; Management, Kolkata, India</b></p>	
<b>5:30 PM – 6:20 PM</b>	<p style="text-align: center;"><b><u>Keynote Speaker</u></b></p> <p><b>Prof. Dr. Carolyn McGregor</b>, <i>Professor and Dean Research Chair in Artificial Intelligence for Health and Wellness Director, Joint Research Centre in AI for Health and Wellness Two-time Canada Research Chair in Health Informatics</i></p> <p><b>Title of the Talk:</b> AI And Big Data Driven Health, Wellness, Resilience and Adaptation in Extreme Environments on Earth and in Space</p>
<p style="text-align: center;"><b>Session Chair: Prof. Dr. Debanjan Mukhopadhyay, <i>Assistant Professor</i>, Institute of Health Sciences, Presidency University</b></p>	
<b>6:20 PM – 7:10 PM</b>	<p style="text-align: center;"><b><u>Keynote Speaker</u></b></p> <p><b>Prof. Dr. Mojgan Rezvani</b>, <i>Executive Dean</i>, Durham College, Canada</p> <p><b>Title of the Talk:</b> Harnessing Clinical Bioinformatics: Transforming Precision Medicine and Shaping the Future of Healthcare</p>

7:10 PM – 8:00 PM	<p style="text-align: center;"><b><u>Keynote Speaker</u></b></p> <p><b>Prof. Dr. Soumita Das</b>, <i>Associate Professor</i>, Department of Biomedical and Nutritional Science, University of Massachusetts, Lowell</p> <p><b>Title of the Talk:</b> “Gut-in-a-dish” Model to Develop Personalized Therapies for Chronic Inflammatory Diseases</p>
<b>End of Day 2</b>	

15 <sup>th</sup> September, 2024 DAY-3	
Time	Programme
9:00AM – 9:50AM	Breakfast
9:50AM - 9:55AM	<p style="text-align: center;">Welcome Speech</p> <p style="text-align: center;">Prof. Dr. Tina De, <i>Associate Professor</i>, Department of Basic Science and Humanities, Institute of Engineering &amp; Management, Kolkata, India</p>
<b><i>Contributed Technical Parallel Sessions (Tracks 4, 5, 6)</i></b> <b><i>10:00 AM – 1:30 PM</i></b>	
<b><u>Track 4 (T4) Systems and Molecular Biology Research in Health Science</u></b>  Session Chair: Dr. Sayak Ganguli, <i>Assistant Professor</i> , Postgraduate and Research Department of Biotechnology, <b>St. Xavier's College (Autonomous)</b>  Session Co-chair: Prof. Dr. Dibyajit Lahiri, <i>Associate Professor</i> , Department of Biotechnology, <b>University of Engineering and Management, Kolkata, India.</b>  <b>Google meet link: <a href="https://meet.google.com/dav-wrsa-hmb">https://meet.google.com/dav-wrsa-hmb</a></b>	
<b><u>Track 5 (T5) Machine and Deep Learning in Healthcare</u></b>  Session Chair: Prof. Dr. Gunjan Mukherjee, <i>Associate Professor</i> , Department of Computational Sciences, <b>Brainware University, Barasat, India</b>	

Session Co-chair: Prof. Dr. Prithwineel Paul, *Associate Professor*, CSE Department, **Institute of Engineering & Management, Kolkata, India**

Google meet link: <http://meet.google.com/udo-avfv-tke>

### **Track 6 (T6) Healthcare Management and Literacy**

Session Chair: Prof. Dr Subhasis Bhattacharya, *Professor*, Department of Economics, **Sidho-Kanho-Birsha University, Purulia, West Bengal**

Session Co-chair: Prof. Dr. Soumik Gangopadhyay, *Professor*, **Institute of Engineering & Management, Department of BBA, Kolkata, India**

Google meet link: <https://meet.google.com/bfr-mmkz-sda>

#### ***Parallel Poster Sessions***

***10:00 AM – 1:30 PM***

#### ***Model Exhibition***

***10:00 AM – 1:30 PM***

**1:30 PM -  
2:45 PM**

**Lunch**

#### ***Valedictory Session***

**Host - Prof. Dr. Tina De, *Associate Professor*, Department of Basic Science and Humanities, Institute of Engineering & Management, Kolkata, India**

**2:45 PM -  
2:55 PM**

**Conference Summary**  
**Prof. Dr. Debasmita Bhattacharya, *Convenor*, IEM-HEALS-24, *Professor*, Department of Basic Science and Humanities, Institute of Engineering & Management, Kolkata, India**

**2:55 PM -  
3:25 PM**

**Distribution of Awards and Certificates**

**3:25 PM -  
3:30 PM**

**Vote of Thanks**  
**Prof. Dr. Prabir Kumar Das, *Convenor*, IEM-HEALS-24, *Head*, Department of Basic Science & Humanities, Institute of Engineering & Management, Kolkata, India**

**End of Day 3**

