

Department of Bioengineering Annual Symposium 2026

Date	29 Jan 2026
Venue	G22 seminar room, TCS Smart X Hub Building, IISc Bangalore
12.00 - 02.10	Registration
02.10 - 02.15	Welcome remark Prof. Kaushik Chatterjee Chair, Dept. of Bioengineering, IISc
02.15 - 02.25	Opening remark Prof. Navankanta Bhat Dean, Division of Interdisciplinary Sciences, IISc
02.25 - 02.30	Introduction to Memorial Talk Dr. Ajay Tijore Dept. of Bioengineering, IISc
02.30 - 03.30	Prof. Sanjay Biswas Memorial Talk Dr. Sanghamitra Pati Additional Director General, Indian Council of Medical Research (ICMR), Delhi
03.30 - 04.00	Coffee Break & Poster Session
04.00 - 04.30	Dr. Juhi Singh Dept. of Bioengineering, IISc Talk: Engineering functional biomaterials for localized therapeutic intervention
04.30 - 05.00	Dr. Meenakshi Kamaraj Dept. of Bioengineering, IISc Talk: From microspheres to bioinks: Advanced material designs for tissue regeneration
05.00 - 06.00	Poster Session



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Date	30 Jan 2026
Venue	G22 Seminar Room, TCS Smart X Hub Building, IISc Bangalore
10.00 - 10.30	<p style="text-align: center;">Dr. Sanhita Sinharay Dept. of Bioengineering, IISc</p> <p>Talk: Modulation and noninvasive visualization of tumor pH with CEST MRI for regulating chemotherapeutic interventions</p>
10.30 - 10.45	<p style="text-align: center;">Dr. Roshini P Dr. Sanhita Sinharay Lab</p> <p>Talk: <i>In vivo</i> photo acoustic mapping of whole brain sO₂ in mice</p>
10.45 - 11.00	<p style="text-align: center;">Prem Singh Anant Prof. Siddharth Jhunjhunwala Lab</p> <p>Talk: Immunoregulatory reprogramming of LPS stimulated macrophages by GelMA hydrogels</p>
11.00 – 11.15	<p style="text-align: center;">Vijaya Vaishnavi V Prof. Rachit Agarwal Lab</p> <p>Talk: Three-dimensional (3D) granuloma-on-a-chip platform for studying host-pathogen interaction in tuberculosis</p>
11.15 - 11.45	Coffee Break & Poster Session
11.45 - 12.15	<p style="text-align: center;">Dr. Medhavi Vishwakarma Dept. of Bioengineering, IISc</p> <p>Talk: Paradox of glassy dynamics in epithelial tissue</p>
12.15 - 12.30	<p style="text-align: center;">Isha Akte Dr. Medhavi Vishwakarma Lab</p> <p>Talk: Crosstalk between cell-cell and cell-substrate adhesions influence tissue dynamics and protein levels in epithelia</p>
12.30 - 12.45	<p style="text-align: center;">Akhilesh Agarwal Prof. Kaushik Chatterjee Lab</p> <p>Talk: Digital light-based 3D bioprinting for cartilage regeneration</p>
12.45 - 01.00	<p style="text-align: center;">Rashmita Luha Dr. Ajay Tijore Lab</p> <p>Talk: Biomechanical vulnerability of oral cancer cells enables low-frequency ultrasound treatment</p>

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01.00 - 02.00	Lunch
02.00 - 03.00	Poster Session
03.00 - 03.30	Dr. Aditya Kulkarni Senior Scientific Manager, Biocon Ltd. Bangalore Industry Talk
03.30 - 03.50	Dr. Sulob Roy Chowdhury Prof. Kaushik Chatterjee Lab Talk: Additive manufacturing of soft-tissue-mimicking hydrogel-based structurally robust tubular constructs: from process science to biocompatibility
03.50 - 04.10	Dr. Akshi Vashishtha Prof. Rachit Agarwal Lab Talk: Polymeric particle based sustained delivery of novel NSAID-3MST substrates for treatment of Osteoarthritis
04.10 - 04.30	Coffee Break & Poster Session
04.30 - 05.00	Prof. Mohit Kumar Jolly Dept. of Bioengineering, IISc Talk: Interconnected axes of phenotypic plasticity drive coordinated cellular behaviour and worse clinical outcomes in breast cancer
05.00 – 05.15	Shreya Vashista Prof. Mohit Kumar Jolly Lab Title: Understanding phenotypic plasticity between Epithelial-to-Mesenchymal Transition (EMT) and Osimertinib resistance in EGFR-mutant Non-small cell lung cancer (NSCLC)
05.15 - 05.30	Harshavardhan B V Prof. Mohit Kumar Jolly Lab Title: Emergent dynamics of cellular decision making in multi-node mutually repressive regulatory networks
	Closing remarks

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