





66 International Conference on Clinical Translation of Biomaterial-based Therapeutics and Devices 99 "ICBTD 2025"





6th - 7th February, 2025



Somaiya Vidyavihar University

Organised by:

Somaiya Centre for Integrated Science Education and Research and Department of Mechanical Engineering, Somaiya Vidyavihar University

Supported by:

Internal Quality Assurance cell, SVU







Endorsed by:

Society of Biomaterials & Artificial Organs, India (SBAOI)

Theme of the Conference

Numerous biomaterials have been developed for tissue regeneration, drug delivery and diagnostic applications. Although there has been great progress in material innovation and preclinical testing, clinical translation of biomaterial based therapeutics and devices are very limited. Several biological and technological challenges have contributed to this huge gap between pre-clinical and clinical success. Additionally, there has been a lack of knowledge regarding the regulatory process and guidelines in the biomedical community. "This often results in the development of highly complex technologies that address unmet needs but fail to navigate the rigorous regulatory process." Conference aims to discuss progress in the development of materials intended for various biomedical applications, general concepts and regulatory guidelines related to clinical translation of biomaterials-based therapeutics and devices, highlight ethical considerations in translational biomedical research, and provide timely and detailed information on the latest advances in clinical translation of biomaterials for therapeutic and diagnostic applications.

Scientific Sessions

- 1. Advances and clinical translational challenges in Biomaterial design and processing
- 2. Regulations and Ethics of preclinical and clinical studies
- 3. Trends in diagnostic and therapeutic delivery systems
- 4. Data science-driven approaches in biomaterial research

Conference Layout

The technical program will run in four sessions, with Plenary, Keynotes, Invited Lectures, oral and poster presentation sessions and a special session on "Challenges in translation of medical technologies" by experts from Clinical, Industry, regulatory and Research setups.

Participants

Conference is intended for medical professionals, scientists, engineers, industrial personnel, entrepreneurs, research scholars and UG/PG students who have interest and are involved in the development of biomaterials for various biomedical applications.

Awards

Best Presentation Award will be conferred during the conference.

About Somaiya Vidyavihar University

Somaiya Vidyavihar University, a testament to over eight decades of educational prowess, is a private university established under the Somaiya Vidyavihar University, Mumbai Act, 2019 of the Maharashtra State Legislature. Situated on a verdant 50-acre campus in Mumbai, it serves over 10,000 students across diverse disciplines including Management, Engineering, Design, Humanities, Sciences, and more. The university, rooted in the legacy of Somaiya Vidyavihar founded by Padmabhushan K J Somaiya, offers a dynamic learning environment with 'major-minor' combinations for broadened academic exploration and connectivity to an extensive global alumni network. Recognized under the UGC Act of 1956, it presents unparalleled opportunities such as an incubation center for aspiring entrepreneurs, comprehensive placement services, and well-appointed on-campus housing, embodying the 'Freedom of Possibilities' for students to pursue excellence and self-discovery.

Know more: https://www.somaiya.edu/en/

About Society of Biomaterials and Artificial Organs India (SBAOI)

The primary objective of SBAOI is to cultivate an ecosystem nationwide for the growth of fundamental and technology-oriented research in Biomaterials and Artificial Organs. Another mandate is to serve as platform for the stakeholders, like clinicians, industry professionals, together with researchers from academia and national labs. This can accelerate translational research in the emerging field of significant societal relevance.

For further details: https://biomaterials.org.in/

About IQAC, Somaiya Vidyavihar University

The Internal Quality Assurance Cell (IQAC) at the University serves as the pivotal body overseeing and enhancing quality assurance and enhancement initiatives. It spearheads the development and implementation of robust quality processes for both academic and administrative functions, ensuring continuous improvement through periodic reviews and corrective measures.

Know more: https://www.somaiya.edu/en/about-iqac/

About Somaiya Centre for Integrated Science Education and Research (SciSER)

The Somaiya Centre for Integrated Science Education and research (SciSER) is formed with the vision of preparing professionals & researchers with unique skill sets in integrated sciences. Currently it offers a unique BS-MS dual degree programme. The emphasis of the programme is on conceptual understanding, rather than rote learning. It focuses on developing critical thinking to encourage logical decision-making & innovation.

Know more: https://sksc.somaiya.edu/en/programme/integrated-bachelor-of-science-master-of-science/

About Department of Mechanical Engineering, Somaiya Vidyavihar University

Department of Mechanical Engineering imparts the skills and expertise in the areas of design, manufacturing, and thermal sciences that are the backbone of most sectors of the industry. The department is committed to providing quality education in mechanical engineering that enables students to achieve excellence in their field of specialization

Know more: https://kjsce.somaiya.edu/en/programme/bachelor-of-technology-mechanical-engineering/

Important dates to remember



November 10th, 2024

Registration opening

November 15th, 2024

Abstract Submission Deadline

December 10th, 2024

Early Bird Registration

Till January 5th, 2025

Abstract Acceptance Intimation

January 1st, 2025

Regular Registration

Till conference date

Abstract submission

Participants can submit either extended abstract or Full paper according to their choice.

See website for abstract/full paper submission details: (https://www.somaiya.edu/en/icbtd-2025)

Selected submissions may be accepted for publication after going through the editorial workflow of the respective journal under Springer Nature.

Registration

All participants in the conference must register for the conference. Payment can be done through the registration link, which is provided in the website: (https://www.somaiya.edu/en/icbtd-2025)

Category	Indian & Foreign Delegates (In Rupees)	
	Early (Before January 5, 2025)	Regular (Till January 15, 2025)
Industry Delegates	5000/	6000/-
Faculty member Scientist/ Researcher from industry	3000/-	4000/-
Research Scholars	1500/-	2000/-
UG/PG students	500/-	750/-

Confirmed speakers



Title of the talk:

Bench to Bed – Challenges in Translation of Biomaterials for Clinical Applications

Dr Harikrishna Varma

Head Biomedical Technology Wing, Sree Chitra Tirunal Institute for Medical Sciences and Technology, Kerala



Title of the talk:

Drug Delivery across the Blood-Brain Barrier: A New Approach Using Drug-Polysorbate Conjugates

Prof A Jayakrishnan

(Senior Scientist (INSA); Former Professor, IIT Madras; Former Vice Chancellor, Kerala University; Former Scientist (SCTIMST); Department of Chemistry, University of Kerala)



Title of the talk Biomedical applications of peptides and polymer modified peptides

Prof V.N. Rajasekharan Pillai Professor

Department of Polymer Science Somaiya Vidyavihar University



Micro- and Nano-Scale Innovations to **Enable Next Generation Therapeutic** Delivery

Prof Nitin Joshi Harvard Medical School

Title of the talk:



Title of the talk: From Laboratory to Clinic: Improving Patient Care Through Silk-Based Bone Regeneration

Dr Anuya Founder & CEO Serigen Mediproducts



Title of the talk: Minimally Invasive Cardiovascular Devices



Dr Sujesh S Engineer, Artificial Internal Organs, Department of Medical Devices Engineering, Biomedical Technology Wing, SCTIMST, Trivandrum, Kerala, India.



Title of the talk: Hard Tissue Reconstruction: Lessons Learnt in Rodent Models

Dr Francis B Fernandez Scientist, BMT Wing, SCTIMST



Title of the talk: Surface Modification Strategies to Improve Hemocompatibility of Titanium-Based **Implants**



Title of the talk:

Organically Modified Ceramic Polymer Based Radiopaque **Composites for Dental Applications**

Dr. Lizymol P.P. Scientist G, BMT Wing, SCTIMST,



Title of the talk: Tissue Engineering Research in India: Pasteur's Quadrant Perspective

Department of Bioengineering, George

Mason University, Fairfax, VA, USA

Prof Ketul C Popat Professor and Chair

Title of the talk:

Mr. Balram S

SCTIMST-TIMED)





Dr A M Kuthe Professor (Higher administrative grade) Visvesvaraya National Institute of Technology, Nagpur



Title of the talk: **Novel Approaches to Manage** Osteoarthritic pain

University of Connecticut

Dr Lakshmi S Nair Department of Orthopaedic Surgery, Department of Materials Science and Engineering,



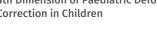
a road less travelled

(Scientist G, BMT Wing, SCTIMST & CEO

From Research to startup, navigating



Title of the talk: 4th Dimension of Paediatric Deformity Correction in Children



Dr Taral Nagda

Senior Consultant, MBBS, MS (Orthopaedics), DNB (Orthopaedic Surgery), Pediatric Orthopaedic Surgeon, SRCC NH Children Hospital, Jupiter Hospital, Hinduja Hospital, Saifee Hospital Director: Jupiter CP Clinic, Director: Jupiter gait analysis lab



Title of the talk:
Orthopaedic Implants - materials, design and using data driven approaches



RRR: An Insight Into EC Submissions (Regulations, Requirements & Reviews)

Title of the talk:

Dr. G. SARAVANA KUMAR (Professor, IIT Madras)

Dr Usha Nayak
Professor & Head
Department of Pharmacology
K.J.Somaiya Medical College,
Mumbai



Title of the talk: Affordable healthcare technologies for India

Prof Rohit Srivastava

Himanshu Patel, Chair Professor, Department of BSBE, IIT Bombay, Powai, Mumbai 400076



Dr Taslimarif SaiyedCEO and Director, C-CAMP Adjunct Faculty at Indian Institute of Technology (IIT) Madras and Amrita Institute School of Biotechnology

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