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Vel Tech
Rangarajan Dr. Sagunthala
R&D Institute of Science and Technology
(Deemed to be University Est. as 3 of UGC Act, 1956)



**Vel Tech Rangarajan Dr. Sagunthala R&D Institute of
Science and Technology**



School of Electrical & Communication
Department of Biotechnology
&
Department of Biomedical Engineering



in association with

Vel Tech High Tech Dr. Rangarajan Dr. Sakunthala Engineering College

&

Society of Chemical and Synthetic Biology, India

presents

**International Conference on Environmental, Chemical, and
Synthetic Biology towards Sustainable Development Goals 2024
(ICECSSD-24)**

&

**The Sixth Annual Meeting of Society of
Chemical and Synthetic Biology**

(21st & 22nd November, 2024)

**Post Conference Workshop
(23rd November, 2024)**

Chief Guest

Dr K. J. Sreeram,

Director,

CSIR-Central Leather Research Institute, Chennai

Guest of Honour

Dr. Bhaskar Bhadra,

Team Lead, Reliance Industries Ltd

About Vel Tech University (VTU)

Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology (VTU) is a renowned category- 1 deemed university, accredited with an 'A++' by NAAC and ranked in the top 100 for engineering in the NIRF India Rankings for five consecutive years. It has received prestigious accolades, including Times Higher Education's Young University Rankings 2022, QS Asia University Rankings 2022, and a Diamond University Rating from QS I-GAUGE. Vel Tech also won University of the Year 2020 by Higher Education Review and recognition for research, innovation, and training in 2020- 2021. It ranked fifth in ARIIA 2019 and remains in the Excellent Band for innovation. Founded by Col. Prof. Vel. Dr. R. Rangarajan and Dr. Sagunthala Rangarajan, the university supports 9,500 students with Rs. 35 crores in scholarships, boasts 390 global alliances, 120 MoUs, 20+ research labs, and over Rs. 50 crores in grants. Its Technology Business Incubator is a DST-supported NIDHI Centre of Excellence for entrepreneurship and academic collaboration.

About Department of Biotechnology

Biotechnology has surged in prominence, especially post-COVID, due to increased demand for vaccines, enzymes, and drugs. Innovations in synthetic biology, bioenergy, bioremediation, genomics, proteomics, bioinformatics, and bio-nanotechnology have broadened its scope. Our department boasts top faculty in Nutraceuticals, Nanobiotechnology, Metabolic Engineering, Environmental Biotechnology and Biomaterials Engineering, offering an advanced curriculum. With 3.38 crores in funding for in-house R&D from Central and State agencies, our postgraduate program, supported by the DBT PGT Program, highlights our faculty's expertise. Additionally, our Technology Business Incubator, backed by the Department of Science and Technology, has supported four faculty and two student startups, amplifying our impact.

About Department of Biomedical Engineering

Department of Biomedical Engineering was established in the year 2017 under the School of Electrical and Communication with an aim to connect engineering and biology. The department is propelling itself to become the major educator in Biomedical Instrumentation and allied engineering and had raised the standards of advanced laboratories by setting up a Brain-Computer Interface (BCI) and Biomechanics. Faculty members are specialized in different domains such as Brain-Computer Interface (BCI), Artificial Intelligence (AI), Signal and Image Processing, Nanomaterials, Biosensors, Biochemistry and Diagnostic & Therapeutic Equipments etc.

About Vel Tech High Tech (VTHT)

Vel Tech High Tech Dr. Rangarajan Dr. Sakunthala Engineering College, established in 2002, started with three departments and 52 students. Approved by AICTE and affiliated with Anna University, it has grown significantly, now offering a wide range of engineering programs. The institution focuses on academic excellence, innovation and industry collaborations, providing students with a strong foundation in technical education. It is part of the Vel Tech Group, which is committed to providing quality education and fostering research and development

About the Society

Established in 2019, the Synthetic and Chemical Biology Society of India (SCSB) is the nation's foremost non-profit organization dedicated to advancing the fields of Synthetic and Chemical Biology. Our mission is to unite aspiring scientists with international peers and industry luminaries through impactful workshops and conferences, fostering collaboration to propel the frontier of synthetic biology forward. Join us to access unparalleled resources, forge invaluable connections, and collectively drive the future of this transformative discipline.

Category	Early registration (before 31st October 2024)		Late registration		Online mode
	SCSB Members	Non - SCSB Members	SCSB Members	Non - SCSB Members	Common to all
Students (UG, PG & PhD)	1500 + 18% GST	2000 + 18% GST	2000 + 18% GST	2500 + 18% GST	1500 + 18% GST
Faculty & Post Doc	2000 + 18% GST	2500 + 18% GST	2500 + 18% GST	3000 + 18% GST	2000 + 18% GST
Industrial Person	3000 + 18% GST	4000 + 18% GST	3500 + 18% GST	4500 + 18% GST	3000 + 18% GST
NRI & Foreign Delegates	100 \$				
Workshop on CRISPR Cas13A gRNA Design	Rs. 3000 + 18% GST (Limited to first 20 participants)				
Workshop on Grant Writing and Career Development Training	Free registration (Limited to first 50 participants)				

Registration link available in conference website Participants are strictly encouraged to register for either one workshop since both are scheduled parallelly

Scan for conference website

<https://veltech.edu.in/icecssd-24/>



List of Speakers

International

1. **Prof. Sunghoon Park**, Professor, School of Energy and Chemical Engineering, Ulsan National Institute of Science and Technology, South Korea
2. **Prof. Rajesh Sani**, Professor, South Dakota School of Mines, Science and Technology, South Dakota, USA
3. **Dr. Rohan Jain**, Head- Metallophores, Helmholtz- Zentrum Dresden-Rossendorf, Germany
4. **Dr. Govarthanan Muthusamy**, Research Professor, Kyungbook National University, South Korea.
5. **Dr. Xueting Liu**, Professor, East China University of Science and Technology (ECUST), State Key laboratory of Bioreactor Engineering, China

National

1. **Prof. Guhan Jayaraman**, Professor, Department of Biotechnology, Bhupat and Jyoti Mehta School of Biosciences, IIT Madras, Chennai
2. **Dr. Sanjay Ghosh**, Associate Professor and Group Leader, Synthetic Biology, Institute of Bioinformatics and Applied Biotechnology, Bengaluru
3. **Dr. N. Ayyadurai**, Sr. Principal Scientist, Honorary Faculty - Anna University & Associate Professor – AcSIR, CLRI, Chennai
4. **Dr. Amit Kumar Rai**, Scientist D, National Agri- Food Biotechnology Institute, Punjab
5. **Dr. Vijai Singh**, Professor, HoD of Biosciences, Dean Research & Innovation, Indrashil University, Rajpur, Mehsana, Guharat, India
6. **Dr. Sudheer D V N** Pamidimarri, Associate Professor, Gujarat Biotechnology University, Gujarat.

Industries

1. **Dr. V. Naveen Kumar**, Founder & Managing Director, ImmuGenix Biosciences Pvt Ltd, Chennai, Tamil Nadu, India
2. **Dr. Ajay monnappa**, Biosustain labs, Mangalore.
3. **Dr. L. Karthik**, Project Lead-Synthetic Biology, Salem Microbes Pvt Ltd, Salem, TamilNadu, India
4. **Dr. Vijai**, MD, Next99 LLC, USA
5. **Dr. R. Ravikumar**, Founder, Deepta food products, Coimbatore
6. **Dr. Vaijayanti Gupta**, Chief Operating Officer CRISPRBITS, Bengaluru, Karnataka, India

Post conference workshop (23rd Nov 2024)

- 1) Workshop on CRISPR Cas13A gRNA Design
- 2) Workshop on Grants: Grant Writing and Career Development Training

Important Deadlines:

Abstract submission last date: **31st October, 2024**

Publications:

We are pleased to announce a special journal collection in JoVE titled "Innovative Methods in Chemical Biology, Synthetic Biology, and Biomedical Engineering for Sustainable Development". For more details refer conference website.

More journal publication details will be updated soon in website.

ICECSSD-24 Awards

Oral and Poster Awards:

Best presentations will be selected by the jury of experts and awarded during the valedictory ceremony.

SCSB Awards:

SCSB - Dr. APJ Abdul Kalam Young Scientist Award

SCSB - Life Time Achievement Award SCSB - Velu Nachiyar Women Award

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SCSB - Agathiyar Chemical Biology Award

SYNBIO Grant

The SCSB Synbio Grant Application is now open for innovators in Synthetic Biology. This exciting opportunity supports projects tackling global challenges, from sustainable biofuels to innovative materials and therapeutics. Winners will receive financial backing, access to top-notch facilities, mentorship, and a platform to showcase their work.

For more details please visit society website <https://www.scsbindia.com/> and submit the filled in application form to scsb2019@gmail.com on or before October 15, 2024

About Conference

This conference will bring together leading experts, researchers, and professionals from around the World to discuss the latest advancements and innovations in the field of environmental, chemical and synthetic biology aiming towards achieving sustainable development goals. The conference theme is centered on addressing global challenges through interdisciplinary collaboration. ICECSSD-24 will also offer opportunities for networking, knowledge exchange, and partnership building, contributing to the advancement of science and technology for a sustainable future.

Various thematic areas of this conference include (Not limited to):

- Chemical Biology and Metabolic Engineering
- Environmental Biotechnology and Sustainability
- Genomics, Systems Biology and Synthetic Biology
- Health and Therapeutic Applications
- Agriculture and Food Security
- Biomedical Device Technologies and Robotics
- Artificial Intelligence Techniques in Healthcare Applications
- Biochemistry and Biochemical Engineering
- Bioelectronics & Biophotonics
- Biomaterials



With the Blessings of

Col. Prof. Vel Dr. R. Rangarajan,

Founder President & Chancellor

Dr. Sagunthala Rangarajan,

Foundress President

