



**VIT<sup>®</sup>**  
**Vellore Institute of Technology**  
(Deemed to be University under section 3 of UGC Act, 1956)



## **SCHOOL OF BIO SCIENCES AND TECHNOLOGY**



# **BIOBROADCAST**

**JULY - SEPTEMBER 2025**

# VELLORE INSTITUTE OF TECHNOLOGY

VIT is an eminent and popular educational institution committed to achieving excellence in higher education. It was founded to deliver high-quality higher education that meets international standards. The university is ranked 691st in the QS World University Rankings and 142nd Best Institution in the world in Engineering and Technology. The VIT Group of Institutions provides 71 undergraduate programs, 58 postgraduate programs, 15 integrated programs, 2 research programs, and 2 MTech industrial programs. Furthermore, full-time PhD, deep-tech PhD programs in Engineering and Management, PhD programs in Science and Languages, and Direct PhD programs in engineering fields are available in 2025.



## **Dr. G. Viswanathan** **Founder & Chancellor**

Mr. Sankar Viswanathan, Vice President

Dr. Sekar Viswanathan, Vice President

Dr. G. V. Selvam, Vice President

Dr. Sandhya Pentareddy, Executive Director

Ms. Kadhambari S. Viswanathan, Assistant Vice President

Dr. V. S. Kanchana Bhaaskaran, Vice Chancellor

Dr. Partha Sharathi Mallick, Pro-Vice

Chancellor, Dr. T. Jayabharathi, Registrar



# OUR INSPIRATION



Hon'ble Chancellor **Dr. G. Viswanathan** serves as a beacon of inspiration for the younger generation, motivating countless students to pursue excellence with purpose and determination. Under his visionary leadership, Vellore Institute of Technology (VIT) has evolved into a world-class institution, distinguished by its unwavering commitment to innovation, integrity, and impactful education.

The university nurtures a vibrant and inclusive academic environment that fosters creativity, discipline, and a collective sense of responsibility towards progress. As Dr. Viswanathan aptly states, *"Knowledge is a protective shield which cannot be ruined by any external force."* This profound belief forms the very foundation of VIT's academic philosophy.

VIT provides an ecosystem where both faculty and students thrive through a culture of care, accountability, and continuous advancement. Strengthened by robust national and international collaborations across academia and industry, the institution remains steadfast in cultivating global competencies and contributing to economic development. Guided by service and compassion, VIT's mission extends beyond academics to uplift communities and enrich lives through transformative education.

Its core values—student-centric learning, a strong ethical foundation, excellence in execution, social responsibility, and mutual respect—stand as pillars shaping the university's enduring legacy of knowledge-driven transformation.

We extend our heartfelt gratitude to you, Sir, for your blessings, encouragement, and unwavering support.

# DEAN'S MESSAGE



It is with great pride and enthusiasm that we present the July–September 2025 edition of *BioBroadcast*, capturing the vibrant spirit of progress and innovation at the School of Bio Sciences and Technology. This quarter has been marked by inspiring milestones in teaching, research, and outreach that reaffirm our commitment to excellence.

Our students and scholars have once again demonstrated remarkable drive—garnering prestigious fellowships, presenting at international conferences, and securing awards for their innovative projects. Faculty members have excelled by advancing knowledge through impactful publications and patents, securing competitive grants, earning awards and recognition for their research, and making significant contributions to the scientific community through invited talks and collaborations.

This edition highlights several notable achievements of faculty and students, as well as breakthrough research in sustainable bioprocessing, advancements in microbiome engineering, and novel insights into antimicrobial resistance. Our emphasis on translational research continues to bridge the gap between laboratory innovation and societal impact, with new industry collaborations strengthening this momentum. The School also celebrated a series of workshops and symposiums this quarter, providing a platform for intellectual exchange across disciplines. These events fostered critical thinking, encouraged cross-sector partnerships, and inspired our young scientists to approach global challenges with creativity and resilience.

As we step into the next quarter, our vision remains steadfast: to cultivate a community of learners and researchers who not only excel academically but also contribute to solving some of the world's most pressing problems in health, agriculture, and environmental sustainability. I extend my heartfelt congratulations to all members of our SBST family for their hard work and dedication, and I look forward to the exciting journeys that lie ahead.

With best wishes,

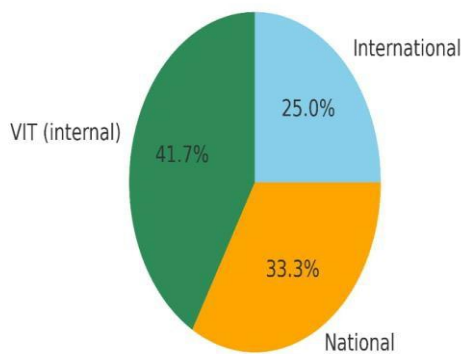
**Dr. Suneetha V.**

**Dean, School of Bio Sciences and Technology, VIT**

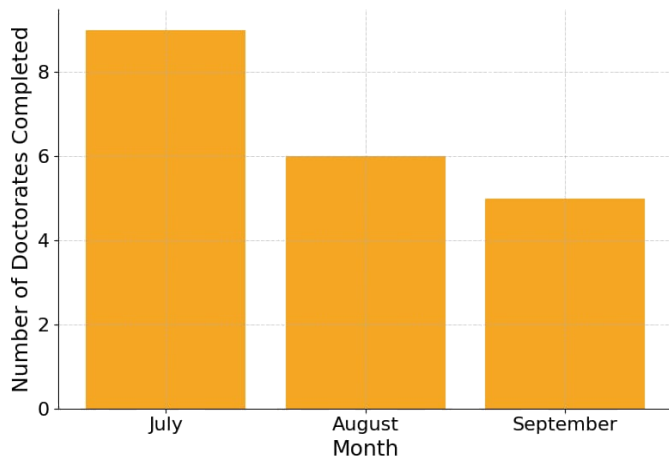


# SBST Achievements

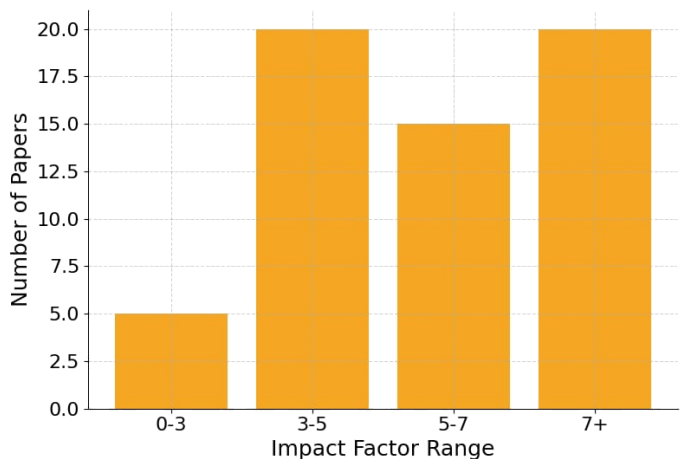
Collaboration Types for Journal Publications (Research & Review Papers)



Completed Doctorates (July - September 2025)



Impact Factor Distribution of Journal Publication



## STUDENT ACHIEVEMENTS

### SPORTS

Women's Cricket Team



Runners-Up



Men's Football Team



Bronze



### HACKATHONS



Team Mosambi



Team Modern Jivanam



Awards

### DEBATES



Debate Society

## FORTHCOMING EVENTS



12th Edition of 'Impact of Artificial Intelligence in Biotechnology Industries'  
Date: To Be Announced



Online Workshop 'Decoding Biological Images'  
Date: 25 Oct 2025  
Registration: [vit.ac.in/register](http://vit.ac.in/register)

### PATENTS FILED AND PUBLISHED

6

PATENTS FILED

5

PATENTS PUBLISHED



Food Packaging



Drug Delivery



Gene Therapy



Biodegradable Materials

# VIT University Rankings - 2025



**VIT**  
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(Deemed to be University under section 3 of UGC Act, 1956)



BY SUBJECT | 2025

## VIT's NEXT BIG LEAP

Redefining excellence in Subjects

SUBJECT	World Rank	India Rank
<b>Engineering &amp; Technology</b>	<b>142</b>	<b>9</b>
Computer Science & Information Systems	110	4-7
<b>Data Science and Artificial Intelligence</b>	<b>51-100</b>	<b>1-7</b>
Engineering - Electrical & Electronic	151-200	7-10
Engineering - Mechanical, Aeronautical & Manufacturing	201-250	9-10
Engineering - Chemical	251-300	9-11
<b>Natural Sciences</b>	<b>362</b>	<b>11</b>
Materials Science	151-200	7
Mathematics	201-250	7-9
Statistics & Operational Research	251-275	8
Chemistry	301-350	9-11
Physics & Astronomy	401-450	10-15
Environmental Sciences	451-500	13
<b>Biological Sciences</b>	<b>351-400</b>	<b>8-9</b>
<b>Agriculture &amp; Forestry</b>	<b>351-400</b>	<b>11-12</b>
<b>Business &amp; Management Studies</b>	<b>551-600</b>	<b>23-27</b>



# VIT University Rankings - 2025



Vellore Institute of Technology (VIT)

**351-400**

in QS World University Rankings by Subject 2025:

BIOLOGICAL SCIENCES

March 2025

Date

A handwritten signature in black ink, appearing to read 'Ben Sowter'.

Ben Sowter  
Senior Vice-President  
QS Quacquarelli Symonds

# WELCOME NEW FACULTY

*A Hearty welcome to the new faculty members joining us this academic year.*

As you join our academic community, we celebrate the beginning of a journey marked by curiosity, collaboration, and a shared commitment to scientific excellence.

SBST thrives on inquiry, innovation, and mentorship—and we are confident that your presence will enrich our classrooms, laboratories, and scholarly pursuits. Your contributions will help shape the minds of future scientists. We look forward to the fresh perspectives and energy you bring, and we encourage you to engage fully with the vibrant academic and collegial life here. May your time with us be both professionally rewarding and personally fulfilling.





# NEWLY JOINED FACULTY

	Erp ID	Name	Designation	
1.	22357	Dr. Manoj Kumar P (Ramalingaswamy fellowship, Mentor- Dr. Anand A.)	Associate Professor Grade 1	
2.	22436	Dr. Asmita Mishra	Assistant Professor Sr. Grade 1	
3.	22437	Dr. Payel Ghosh	Associate Professor Grade 1	
4.	22459	Dr. Subhash Kumar	Assistant Professor Grade 2	
5.	22468	Dr. Babu G	Associate Professor Grade 1	
6.	22470	Dr. Syama H P	Assistant Professor Sr. Grade 2	
7.	22479	Dr. Rameshkumar Santhanam	Associate Professor Sr. Grade 1	
8.	22480	Dr. Kavya Durgaprasad	Assistant Professor Sr. Grade 2	
9.	22483	Dr. Janaki Ramaiah M	Professor Grade 2	
10.	22486	Dr. Marttin G P	Associate Professor Grade 1	
11.	22490	Dr. Thirupathi Kumara Raja	Associate Professor Senior	
12.	22531	Dr. Arkajyoti Dutta	Assistant Professor Grade 2	

# WELCOME FRESHERS

## *Dear Freshers*

It gives us immense joy and pleasure to welcome you to the School of Biosciences and Technology (SBST)

In SBST curiosity meets innovation and every step has its own purpose. Here every new soul who joins are the next generation innovators and changemakers. The journey you begin today will introduce you to the wonders of biology at every scale – from the molecules that shape life to the ecosystems that sustain our planet.

At SBST, you will find:

***Knowledge*** that empowers you,

***Research opportunities*** that challenge you,

***Mentors*** and ***friends*** that inspire you, and

A ***global vision*** that prepares you for impact.

***Welcome to the SBST family – where science meets possibilities, and your journey begins!***

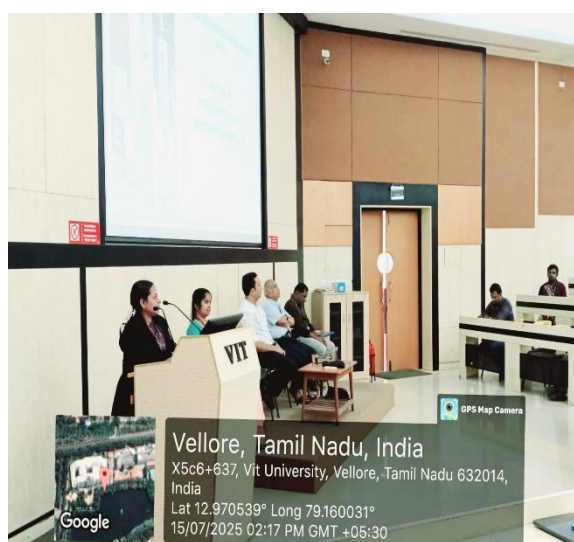




# STUDENT INDUCTION CEREMONY 2025







**Research scholar induction programme  
2025**



# ANNUAL CONVOCATION 2025

**Congratulations to the graduating batch on reaching this remarkable milestone!**

As you step beyond the walls of this institution, may you carry with you not only the lessons from books and classrooms, but also the values of integrity, compassion, and curiosity. The world awaits your innovation, leadership, and commitment to building a better tomorrow.

Remember, this is not an end, but a new beginning. Wherever life takes you, continue to dream fearlessly, strive with determination, and serve with humility.

**Congratulations to the graduating class — may your journey ahead be filled with success, purpose, and fulfilment.**









# Memorandum of Understanding (MoU)

## MoU signed with Sivasakthi Science Foundation



**From Left to Right:** Dr. V.S. Kanchana Bhaaskaran (Vice Chancellor, VIT), Dr. Sabarinath Subramaniam (Founder and Director, Sivasakthi Science Foundation), and Dr. Sekar Viswanathan (Vice President, VIT) at the MoU signing ceremony.



**From Left to Right:** Dr. Suneetha V (Dean, School of Biosciences and Technology, VIT), Dr. V.S. Kanchana Bhaaskaran (Vice Chancellor, VIT), Dr. Sabarinath Subramaniam (Founder and Director, Sivasakthi Science Foundation), Dr. Sekar Viswanathan (Vice President, VIT), Dr. George Priya Doss (Professor, VIT), and Dr. Karthikeyan Sivashanmugam (Director, Alumni Affairs, VIT) at the MoU signing ceremony.



# INAUGURATION OF SMV 209 SMART CLASS ROOM

**Hon'ble and our beloved Chancellor, Dr. G. Viswanathan** inaugurated the SMV 209 Smart Classroom on 30<sup>th</sup> September 2025.





## IC - STEEH 2025





# A Joyous Union: Wedding Bells for Ms. Kadhambari S Viswanathan

**Ms. Kadhambari S. Viswanathan**, a notable alumna and Assistant Vice President (VIT), tied the knot with Dr. A. Sravan Krishna in September 2025.





# ENGINEERS DAY 2025





# FACULTY ACHIEVEMENT

## Springer Nature Felicitation

Congratulations to Dr. Subathra Devi C, Professor, SBST, for the Springer Nature Author Award





# FACULTY ACHIEVEMENT

## Research Collaboration Award

Congratulations to Dr. Anand A, Professor-HAG, Associate Dean SBST for receiving the research collaboration award from the Principal Secretary, Dept. of Health and Family Welfare, Government of Tamil Nadu- Dr. P. Senthilkumar IAS, for MBC lab - VIT, Vellore, research collaboration with ICMR-NIRT in finding solutions for the clinical management of tuberculosis.



# FACULTY ACHIEVEMENT

## Tamil Nadu Scientist Award (TANSA)

Congratulations to Dr. Siva R., Professor Higher Academic Grade for receiving the prestigious Tamil Nadu Scientist Award (TANSA) for the year 2023 in Biological Sciences in Ooty on September 30, 2025.





# FACULTY ACHIEVEMENT

## PROJECTS GRANTED

S.No.	Project Title	Faculty	Sanctioned Amount	Type
1	Assessing Cellular Aging Markers in Practitioners of Simple Kundalini Yoga (SKY)	Dr. Aravind Selvin Kumar Dr. Pragasam V	Rs. 2,50,000/-	Consultancy
2	Regulation of Telomere Biology through Mind-Body Interventions: A study on Simplified Kundalini Yoga (SKY)	Dr. Aravind Selvin Kumar Dr. Raja Sudhakaran	Rs. 2,26,000/-	Consultancy
3	Bioreactor-Mass Production of Ginger Plant Tissue Culture	Dr. Kannan P Dr. Arun Kumar P	Rs. 2,53,700/-	Consultancy
4	Exploring the Molecular Mechanism underlying therapeutic potency of UNIM-301 against rheumatoid arthritis	Dr. M. Rasool	Rs. 34,14,960/-	Funded Project
5	Novel Functional Foods from Millets: Fermented Beverages and Microgreens for Improved Gut Health and Immunity" from the DST Millet Cluster Project	Dr. C. Ramalingan	Rs. 32,69,085/-	Funded Project



Dr. Aravind Selvin Kumar



Dr. Pragasam V



Dr. Kannan P



Dr. Raja Sudhakaran



# FACULTY ACHIEVEMENT

## PATENTS published

1. Title: Process for the preparation of low-fat vegan mayonnaise product using coconut as a fat substitute (**Published on 11<sup>th</sup> July 2025**)  
Dr. Jeevitha G C; Surya A; Madhumitha P L.



2. Title: Dinuclear Rhodium (III) complex form from double oxygenation of COD using ambient oxygen (**Published on 11<sup>th</sup> July 2025**)  
Dr. Priyankar Sen; Dr. Tapas Ghatak; Shanmugam Revathi



3. Title: A biodegradable composite film for food packaging and method for its preparation (**Published on 11<sup>th</sup> July 2025**)  
Dr. Deepankumar Kanagavel; Raja Priya R



4. Title: A heterobifunctional proteolysis targeting chimers (PROTACs) compound for selective degradation of KRAS G12C and KRAS G12D mutant proteins (**Published on 25<sup>th</sup> July 2025**)  
Dr. Sivakumar Arumugam; Dr. Rajagopal Desikan; Reshma Rajan; Lenin Nachimuthu; Prasanna Srinivasan Ramalingam



5. Title: Capsid modified Adeno-associated virus (AAV) vectors for targeted gene delivery into CD117+ haematopoietic cells (**Published on 1<sup>st</sup> August 2025**)  
Dr. Balaji Balakrishnan, Christy Martin, Nishal Kumarasamy, Anju Ganesan



6. Title: Process for extraction of virgin coconut oil using natural deep eutectic solvents (**Published on 1<sup>st</sup> August 2025**)  
Dr. Jeevitha G C, Vidhya E



7. Title: A semi-solid sunscreen composition and the method for preparation thereof (**Published on 1<sup>st</sup> August 2025**)  
Dr. Suneetha Vuppu, Toshika Mishra, Shreyas Rajagopalan





# JOURNAL PUBLICATIONS

## Research Papers

1. S.K. Ganesh; A. Chakravorty; V. Raghavan; C. Subathra Devi (2025). Chitosan coated ZnO/TiO<sub>2</sub>/Gd<sub>2</sub>O<sub>3</sub> nano composites for improved rapamycin delivery in non-small cell lung cancer. *International Journal of Biological Macromolecules* (IF: 8.5)
2. A. Tejaswini; S. Navya; K.G. Poornima; E. Petit; R. El Boutachfaiti; A. Mehta; C. Shanthi; C. Delattre (2025). Bioactive collagen peptide functionalized polyglucuronic acid - In vitro analysis as a potential biomaterial for bone tissue engineering. *International Journal of Biological Macromolecules* (IF: 8.5)
3. A., Sharmila, Arunagiri; C.I., Selvaraj, Chinnadurai Immanuel (2025). Facile synthesis of xanthan gum-based sheets loaded with ganoderic acid F for evaluation of therapeutic potential, molecular docking, and ADMET profiling. *International Journal of Biological Macromolecules* (IF: 8.5)
4. M.H. Rashid; R. Karn; A. Emerson I; J.M. Khan; A. Malik; A. Jain; P. Sen (2025). Interaction between Coomassie Brilliant Blue and hen egg white lysozyme: Insights from molecular docking, simulation, fluorescence quenching, and FTIR. *International Journal of Biological Macromolecules* (IF: 8.5)
5. Sekaran M.; Thiagarajan K. (2025). Biochemical detoxification of hexavalent chromium (Cr<sup>6+</sup>) by the endophytic fungus *Aspergillus ruber* isolated from the marine alga *Portieria hornemannii*. *Journal of Environmental Chemical Engineering* (IF: 7.4)
6. Y., Sharma, Yamini; S.D., Roy, Subha Deep; D.K., Raja, Das K.; V., Shankar, Vijayalakshmi (2025). Integrating AI and statistical modelling for enhanced microalgae growth in 3D Bioprinted polymeric Scaffolds-a hybrid approach. *Chemical Engineering Journal Advances* (IF: 7.1)
7. N., Vijayakumar, Naveensubramaniam; S.K., Venkatraman, Senthil Kumar; T.N., Soundhariyaa, Thirumagal Nedunchezian; S., Mohan, Saktiswaren; M.K.A., Magesvaran, Milisha Koh A.; G., Krishnamurthy, Genasan; R.A., Alex, Raveena Ann; J., Abraham, Jayanti; S., Sasikumar, S (2025). Fuel-assisted sol-gel combustion synthesis of monticellite: Structural, mechanical, and biological characterization for tissue engineering. *Journal of Science: Advanced Materials and Devices* (IF:6.8)
8. Ganeshbabu M.; Manochkumar J.; Efferth T.; Ramamoorthy S. (2025). Lutein: A natural defence combating age related macular degeneration. *Phytomedicine* (IF:6.7)
9. R., Varghese, Ressin; K.S., Deb, Krishna Sayantika; K., Pal, Kuntal; A., Jonnalagadda, Annapurna; A.K., Cherukuri, Aswani Kumar; M., Dawood, Mona; J.C., Boulous, Joelle C.; T.H., Efferth, Thomas H.; S., Ramamoorthy, Siva (2025). Harnessing the Potential of Carotenoids for Cancer Therapy: An Integrated Machine Learning and MST Based Approach. *Phytotherapy Research* (IF:6.3)
10. S. Chakraborty; N. Shakhapur; Sathya K.; S. Banerjee (2025). Comparative machine learning analysis for predicting organ tropism in breast cancer and identifying key gene signatures. *Computers in Biology and Medicine* (IF:6.3)
11. R., Chaturvedi, Rini; S.S.A., Hussain, Syed Shah Areeb; H., Sampath, Hayavadhan; M., Rahi, Manju; B.R., Mirdha, Bijay Ranjan; A.P., Sharma, Amit P. (2025). Spatiotemporal epidemiology and clinical manifestations of two decades of scrub typhus in India: A systematic review and meta-analysis. *BMJ Global Health* (IF:6.1)
12. I. Bodhe; G. Velvizhi (2025). Metagenomic analysis of microbes for enhanced CO<sub>2</sub>-to-polyhydroxy butyrate bio-fixation: Insights into biokinetics and process optimization. *Sustainable Chemistry and Pharmacy* (IF: 5.8)
13. Saha P.; Ravanan P.; Talwar P. (2025). A multi-omics exploration of PPARG activation in colon cancer: kinases a PPRE sequence within regulatory regions. *Biology Direct* (IF: 5.7)
14. Ramalingam P.S.; Aranganathan M.; Hussain M.S.; Elangovan S.; Chellasamy G.; Balakrishnan P.; Mekala J.R.; Yun K.; Arumugam S. (2025). Unveiling reverse vaccinology and immunoinformatics toward Saint Louis encephalitis virus: a ray of hope for vaccine development. *Frontiers in Immunology* (IF:5.7)
15. Sekar M.; Thirumurugan K. (2025). The role of TP53INP2 as an adaptor protein in the regulation of lipophagy in mature adipocytes. *Life Sciences* (IF:5.2)
16. H., Sharma, Himanshi; S., Routh, Sreyoshi; C., Pandya, Chayan; S., Mittal, Sumit; V., Manickam, Venkatraman; M., Pathak, Madhvesh (2025). Investigation on DNA/protein interactions and cytotoxic profile of titanium(IV) complexes associated with diols and Schiff base ligands. *Journal of Molecular Liquids* (IF:5.2)
17. V., Pattapulavar, Veilumuthu; S., Ramanujam, Sathiyabama; B., Kini, Bhagyashree; J.G., Godwin Christopher, J. Godwin (2025). Probiotic-derived postbiotics: a perspective on next-generation therapeutics. *Frontiers in Nutrition* (IF:5.1)
18. C., Veluchamy, Chandra; A.S., Sharma, Avinash S.; K., Thiagarajan, Kalaivani (2025). Assessment of heavy metal pollution and human health risk along the Southeast coast of India: A comprehensive ecotoxicological study (2025). *Marine Pollution Bulletin* (IF:4.9)
19. S., Haque, Shafiu; D.M., Mathkor, Darin Mansor; M., Wahid, Mohd; H., Suri, Harshika; F., Ahmad, Faraz (2025). Identification of Novel Scaffolds Against GSK-3 $\beta$  for Targeting Alzheimer's Disease Through Molecular Modeling Techniques. *Cellular and Molecular Neurobiology* (IF:4.8)
20. K.K., Chitluri, Kiran Kumar; E.I., Arnold, Emerson Isaac (2025). Integrative genomic analysis identifies DPP4 inhibition as a modulator of FGF17 and PDGFRA downregulation and PI3K/Akt pathway suppression leading to apoptosis. *Frontiers in Pharmacology* (IF:4.8)



21. P.S., Ramalingam, Prasanna Srinivasan; G., Chellasamy, Gayathri; M.S., Hussain, Md Sadique; K.M., Gothandam, Kodiveri Muthukaliannan; T., Hussain, Tajamul; S.A.H., Alrokayan, Salman A.H.; K., Yun, Kyusik; J.R., Mekala, Janaki Ramaiah; S., Arumugam, Sivakumar (2025). Synergistic anticancer effects of camptothecin and sotorasib in KRAS mutated pancreatic ductal adenocarcinoma. *Frontiers in Pharmacology* **(IF:4.8)**
22. R.C.Deokar; Subathra Devi C; Ramanathan K.; Thrilokraj R.; S. Sinha; R.V. Singh; Mohanasrinivasan V.; R.B. Dateer (2025). Design, synthesis, and evaluation of antibacterial activity with library of N,O and S-containing heterocyclic compounds. *Journal of Molecular Structure* **(IF:4.7)**
23. K. Adhigaman; S.S. Ramasamy; V. Nandakumar; G.K. Muthukaliannan; V.P. Rakkappan; S.Vellaisamy; M. Saravanakumar; S. Thangaraj (2025). Investigation of 3-Arylidene-2,3-dihydro-8nitro-4- quinolone Di-Spiro analogs: Structural elucidation, In-Silico molecular modeling and In-Vitro cytotoxicity against A549 lung cancer cells. *Journal of Molecular Structure* **(IF:4.7)**
24. Kavya P.; Krishnamurthy S.; Bhav S.; Telugu S.; Gayathri M. (2025). Standardisation, chemical characterisation, and evaluation of antihyperglycemic and antioxidant activity of an edible polyherbal formulation: An in vitro and in silico study. *Journal of Molecular Structure* **(IF:4.7)**
25. S.V. Salimath; K.B. Hiremath; M. Subramaniyan; A. Ghosh; E. Lawrence; A. Moorthy; M. Shivashankar; M. Pathak (2025). Homoleptic complexes of titanium(IV) fused with O<sup>2</sup>N<sup>+</sup>O Schiff base derivatives: design, BSA-DNA interaction, molecular docking, DFT, and cytotoxicity. *RSC Advances* **(IF:4.6)**
26. V., Jena, Vaishnavi; B.A., Naidu, B. Aparna; D., Sharma, Deepak; P.J., Bell, Praisy Joy; M., Rajiniraja, Muniyan (2025). Computational discovery of novel SIRT4 inhibitors for cardiac hypertrophy treatment. *Mitochondrion* **(IF:4.5)**
27. K. Rangasamy; A.M. Saleh (2025). Bio-priming of tomato seedlings with bacterial consortium against *Fusarium oxysporum*: a study on morphological parameters and molecular profiling. *Frontiers in Microbiology* **(IF:4.5)**
28. A. Vijayaganapathi; V. Mohanasrinivasan (2025). Evaluation of probiotic potential, safety assessment and whole genome sequencing of *Lactiplantibacillus plantarum* strain MOVIN isolated from toddy sample. *Frontiers in Microbiology* **(IF:4.5)**
29. George E.A.; Naha A.; Soundharya H.; Pallavi J.; Menon A.; Anbarasu A.; Ramaiah S. (2025). Pharmacokinetics Screening, Molecular Docking, and Dynamics Simulations Revealed Novel Antimicrobial Peptide NKLF2 Mutants as Potent Inhibitors of *Mycobacterium tuberculosis*. *Probiotics and Antimicrobial Proteins* **(IF:4.4)**
30. H., Movva, Harshavardhaan; A., Karmakar, Aparajita; S.K., Hariom, Senthil Kumar; R., S, Rajapriya; M.U., Hasan, Md Gulzar Ull; R.K., Kumar das, Raunak Kumar; E.J.R., Nelson, E. J. R.; P., Srivastava, Priyanka (2025). Cellular interactions of colloidal nanosilver and role of alginate capping in prevention of soluble Ag<sup>+</sup> leaching. *Chemical Physics Impact* **(IF:4.3)**
31. S., S, Swagath; P., Nayak, Prateek; K., Pal, Kuntal (2025). Exploring the Microbial Peptides Derived from the Human Gut Microbiota to Regulate Class B GPCRS. *ACS Omega*
32. S. Mathpal; P. Priyamvada; G. Ashok; T. Joshi; D. Saha; A. Mukherjee; B. Roy; S.Ramaiah; A. Anbarasu (2025). Network pharmacology-driven investigation of luteolin from *Annona muricata* as a promising multi-target inhibitor for pancreatic cancer. *Results in Chemistry* **(IF:4.2)**
33. Merlyn Keziah S; Mohanasrinivasan V; Maneesha M; Subathra Devi C. (2025). Hyperproduction of nattokinase from *Bacillus subtilis* VIT MS2 using random mutagenesis and statistical optimization through central composite design. *BMC Microbiology* **(IF:4.2)**
34. Sundar R.D.V.; Arunachalam S. (2025). 2,4-Di-tert-butylphenol from Endophytic Fungi *Fusarium oxysporum* attenuates the growth of multidrug-resistant pathogens. *Frontiers in Microbiology* **(IF:4.0)**
35. Hadkar V.M.; Selvaraj C.I. (2025). Bio-inspired Ag<sub>3</sub>PO<sub>4</sub>-ZnO Nanocomposites: Investigation of its Antioxidant, Anticancer Activity and Photocatalytic Degradation of Methylene Blue Dye. *Journal of Inorganic and Organometallic Polymers and Materials* **(IF:3.9)**
36. T.M. Shivani; S. Mythili (2025). Comprehensive evaluation of bioactive properties and metabolomic profiling of probiotic bacteria *Lactococcus lactis* (MKL8). *Scientific Reports* **(IF:3.9)**
37. S. Ghosh; S. Ramaiah (2025). Exploring the potential role of GyrA inhibiting quinoline analog: an *in silico* study. *Scientific Reports* **(IF:3.9)**
38. Pearl S.; Anbarasu A. (2025). Genomic landscape of nosocomial *Acinetobacter baumannii*: A comprehensive analysis of the resistome, virulome, and mobilome. *Scientific Reports* **(IF:3.9)**
39. M. Adhish; I. Manjubala (2025). PPGBioPred: a webserver for predicting the bioactivity of compounds against PPAR $\gamma$  involved in the negative regulation of the Wnt/  $\beta$ -catenin signaling pathway. *Molecular Diversity* **(IF:3.8)**
40. V.M. Hadkar; N.K. Sishu; S.P. Jayabharathi; A. Sharmila; C.I. Selvaraj (2025). Biogenic synthesis of *Albizia lucidior* mediated magnetite nanoparticles (Fe<sub>3</sub>O<sub>4</sub> NPs): Therapeutic applications and photocatalytic activity. *Biocatalysis and Agricultural Biotechnology* **(IF:3.8)**
41. Thanigachalam S.; Subramaniyan M.; Salimath S.; Ramasamy S.; Wagh M.; Osborne W.; Gomathinayagam S.; Muthukaliannan G.; Pathak M. (2025). Investigation on Cytotoxicity Against Lung Carcinoma Cell Line at New Metallacyclic Complexes of Titanium(IV) Incorporated With  $\beta$ -Diketone and 4-(1,4,5-Triphenyl 1H- Imidazol-2-Yl) Benzene-1,2-Diol Derivatives. *Applied Organometallic Chemistry* **(IF:3.7)**
42. S. Kannampuzha; A.V. Gopalakrishnan (2025). Protective role of ursolic acid against cisplatin-induced oxidative stress and ferroptosis in the liver of Swiss albino mice. *Medical Oncology* **(IF:3.5)**



43. S. Ray; C. Jangid; G.A. Francis; S.S. Pathak; P. Chavan; R. Vashishth (2025). ICP-MS-based quantitative analysis and risk assessment of metal(loid)s in fish species from Chennai, India. *Frontiers in Public Health* **(IF:3.4)**
44. H. Ohara; M. Yamanaka; K. Inoue; H. Shimizu; N. Iguchi; K. Tanaka; A.V. Gopalakrishnan; V. Balachandar; M. Kinoshita (2025). Case Report: Role of hypoglycemia in seizure aggravation in a case of focal epilepsy: revealing a missing link between diabetes and dementia. *Frontiers in Neuroscience* **(IF:3.2)**
45. Loganathan T.; Doss C.G.P (2025). Multi-omics insights into biomarkers of breast cancer associated diabetes: a computational approach. *Frontiers in Medicine* **(IF:3.1)**
46. P. Kochuthakidiyel Suresh; Y. Venkatachalapathy; G.Priya Doss C; S. Geminiganesan; S. Ekambaram; Mohana Priya C. D (2025). Molecular insights into steroid resistance in childhood nephrotic syndrome: Gene expression and prognostic miRNA signatures. *Computational Biology and Chemistry* **(IF:3.1)**
47. J. Augustine; J. Abraham (2025). Utilization of *Schizophyllum commune* for the biodegradation of chlorhexidine gluconate and Benzalkonium chloride: an innovative approach to environmental remediation. *Discover Sustainability* **(IF:3.0)**

## Review Papers

1. Murugan D.; Vasanthakumari Thirumalaiswamy H.; Murugesan V.; Venkatesan J.; Balachandran U.; Lakshminarayanan K.; Satpati D.; Nikoli S.; Rangasamy L. (2025). Unlocking the power of affibody conjugated radioactive metallopharmaceuticals for targeted cancer diagnosis and therapy. *Pharmacology and Therapeutics* **(IF:12.0)**
2. R.P. Rajamani; S.S. Khora (2025). Insights into recent advancements and future prospects of carrageenan-based biodegradable film from marine red algae: A review. *International Journal of Biological Macromolecules* **(IF:8.5)**
3. Lawrence L.V.; Vishnu D. (2025). Exploring the potential of biologically synthesized nano-adsorbents in removal of hexavalent chromium (Cr (VI)): Mechanistic studies and circular economy integration. *Journal of Environmental Management* **(IF:8.0)**
4. A.A., Solomon, Alice Angel; D.R., Vishnu, Dhanya Raghul (2025). Integrated strategies for biosurfactant production and scale-up: Advances in fermentation engineering and computational modelling. *Results in Engineering* **(IF:7.9)**
5. Sahu A.; Ruhel R. (2025). Immune system dynamics in response to *Pseudomonas aeruginosa* biofilms. *NPJ Biofilms and Microbiomes* **(IF:7.8)**
6. P.S. Ramalingam; L. Zhang; M.S. Hussain; G.H. Khan.; W. Mawkili; A.A. Hanbashi; G. Gupta; P. Balakrishnan; S. Arumugam (2025). Non-coding RNAs as key regulators in hepatitis B virus-related hepatocellular carcinoma. *Frontiers in Immunology* **(IF:5.9)**
7. Chavda V.P.; Vuppu S.; Mishra T.; Sharma N.; Kamaraj S.; Mishra S.; Sureshbhai B.; Matsoukas J.; Apostolopoulos V. (2025). Control measures for neglected tropical diseases: vaccine updates. *Expert Review of Vaccines* **(IF:5.5)**
8. S.H., Aswathy, Sreeja Harikumar; U., Narendrakumar, U.; I., Manjubala, Inderchand (2025). An Overview of Approaches and Evaluation Methods for Tissue-Engineered Articular Cartilage Constructs in Animal Models. *Annals of Biomedical Engineering* **(IF:5.4)**
9. J. Latha Ravi; P. Ghosh; F. Ahmad; S. Haque; P.Barciela; F. Chamorro; A. O. Serra Jorge; M. A. Prieto; S. S. Rana (2025). Microbial conversion of vegetable waste for flavor additives via solid-state fermentation: a comprehensive review. *Frontiers in Nutrition* **(IF:5.1)**
10. Chakraborty S.; Kumar A.S.; Banerjee S. (2025). Lipids: Driving Forces in the Underlying Biology of Carcinogenesis. *ACS Pharmacology and Translational Science* **(IF:4.9)**
11. N., Chengebroyen, Neevashini; A., Seelan, Anmol; K., Yoonus Thajudeen, Kamal; S.A., Alshehri, Saad Ali; A., Biswas, Aritra; I., Adur, Israrahmed; S., Vino, S.; S., Lulu (2025). Harnessing nanotechnology for stem-cell therapies: revolutionizing neurodegenerative disorder treatments: a state-of-the-art update. *Frontiers in Pharmacology* **(IF:4.8)**
12. U., Nandy, Urmica; M.A.K., Azad, Mandal Abul Kalam; Pranav (2025). Nanomaterial-Mediated Nucleic Acid Delivery for Pancreatic Cancer Therapeutics. *ACS Applied Bio Materials* **(IF:4.8)**
13. Vijayaganapathi A.; Mohanasrinivasan V. (2025). A Review of Next-Generation Probiotics— As a Gateway to Biotherapeutics. *Probiotics and Antimicrobial Proteins* **(IF:4.4)**
14. Shree Kumari G. R; Mohanasrinivasan V (2025). Scaling Up Postbiotics Production: A Prospective Review of Processes and Health Benefits. *Probiotics and Antimicrobial Proteins* **(IF:4.4)**
15. Priyadarshini L.A.S.; Kataria R. (2025). Microbial synthesis and extraction of value-added metabolites by *Rhodotorula toruloides* from waste stream: a sustainable approach. *Microbial Cell Factories* **(IF:4.3)**



16. Sahoo K.; Lingasamy P.; Khatun M.; Sudhakaran S.L.; Salumets A.; Sundararajan V.; Modhukur V. (2025). Artificial Intelligence in cancer epigenomics: a review on advances in pan-cancer detection and precision medicine. *Epigenetics and Chromatin* **(IF:4.2)**
17. Tomichen S.; Panchal S. (2025). The cardamom-Fusarium pathosystem: current knowledge and future directions. *World Journal of Microbiology and Biotechnology* **(IF:4.0)**
18. P., B S, Praveen; P., Talwar, Priti (2025). Influence of palmitoylation in axonal transport mechanisms in neurodegenerative diseases. *Frontiers in Cellular Neuroscience* **(IF:4.0)**
19. Wahid M.; Mandal R.K.; Sikander M.; Khan M.R.; Haque S.; Nagda N.; Ahmad F.; Rodriguez-Morales A.J. (2025). Safety and Efficacy of Repurposed Smallpox Vaccines Against Mpox: A Critical Review of ACAM2000, JYNNEOS, and LC16. *Journal of Epidemiology and Global Health* **(IF:3.8)**
20. A. Chakraborty; R. Amrit; P. Dutta; W.J. Osborne (2025). Unlocking Nature's Vault: Endophytes as plant-sourced biological treasures. *Biocatalysis and Agricultural Biotechnology* **(IF:3.8)**
21. A. Ebrahim; P. Dey; J. Samuel; W. Jabez Osborne (2025). Review on the robustness of technologies and strategies in removal of hexavalent chromium: a biological perspective. *BioMetals* **(IF:3.6)**
22. A.N., Akbar, Amzath Nazeer; S., Pandey, Somnath; P., Viswanathan, P. (2025). The role of E3 ligases and deubiquitinases in PD-L1 regulation and the tumor microenvironment in renal cell carcinoma. *Medical Oncology* **(IF: 3.5)**
23. Ankit Kumar Bharti S.; Gopalakrishnan A.V. (2025). Lead-Induced Nephrotoxicity and Its Therapeutic Interventions: An Updated Review. *Biological Trace Element Research* **(IF:3.4)**
24. Mahendrarajan, Venkatramanan; H.P.S., Lazarus, Huldah Pearlin Sarah; K.M., Gothandam, Kodiveri Muthukaliannan. S.S., Varghese, Sheeja Saji; N., Easwaran, Nalini. (2025). Membrane vesicles from Red Complex bacteria: key players in oral pathogenesis, immune disruption, systemic diseases, and therapeutic insights. *Frontiers in Oral Health* **(IF:3.1)**





# GUEST LECTURES

S.No.	Lecture Title	Faculty Coordinator(s)	Resource Person	Designation and Organisation	Date
1.	Unit operations in Milk processing	Dr. Payal Ghosh & Dr. Jeevitha C	Dr. Prof. Ramaswamy Anantheswaran	Professor of Food Engineering & Affiliate Faculty, Agricultural and Biological Engineering, The Pennsylvania State University	24.07.2025
2.	Welcome to the World of Genetic Counseling: What Lies Ahead?	Dr. Radha Saraswathy	Ms. Pooja R Rayasam	Senior Genetic Counselor Consultant, Bangalore	25.07.2025
3.	Immunological intelligence: How Our Bodies Learn to Fight	Dr. Gayathri M	Dr. Sharon Pricilla J.L	College of Science and Health Professions, King Saud bin Abdulaziz University for Health Sciences, Al Ahsa, Saudi Arabia	28.07.2025
4.	Molecules in Motion: Unravelling Tauopathy, Phase Separation, and RNA Interference in <i>C. elegans</i>	Dr. Alka Mehta	Dr. Prince R Prabhu	Scientist, Institute of Biochemistry and Molecular Biology, 226 Hamburg, Germany	12.08.2025
5.	Vaccines Research and Development: A Case study of Pneumococcal Conjugate Vaccine- From Lab to Clinic	Dr. P.K. Suresh	Dr. Rajendar Burki	Biological E. Limited, SP Biotech Park, Genome Valley, Shameerpet Mandal, Ranga Reddy, Hyderabad	13.08.2025
6.	Insights to the industrial production of Vaccines and	Dr. K.V. Bhaskara Rao	Mr. K.N. Purna Chandra Rao	Head, Quality Assurance and Process Development,	10.09.2025



	Enzymes from Microorganisms			Tex Biosciences (P), Limited, Chennai	
7.	The Real Me: No Filters, Just Growth	Prof. Trupti Patel	Ms. Surbhi Desai	Sr. Manager-Learning and Development Specialist Talent & OD Extentia, a Merkle Company, Pune	10.09.2025
8.	Connecting the Dots: Exploring gene interactions through Biological Databases	Dr. Satarupa Banerjee	Dr. Lakshmi Revathy Perumalsamy	Associate Professor, SRIHER, Chennai	10.09.2025
9.	Systems Medicine in the Era of Big Data	Dr. Sudesh. R, Dr. Kavitha Thirumurugan, Dr. Faraz Ahmad	Dr. Pankaj Barah	Assistant Professor and DBT-Ramalingaswamy Fellow, Department of Molecular Biology and Biotechnology, Tezpur University (Central), Assam	19.09.2025
10.	Biochemical Prospects on Diversity and Nutritional Quality of Common Bean	Dr. T. Kalaivani	Dr. Arun Kumar Jugran	Scientist E, G.B. Pant National Institute of Himalayan Environment and Sustainable Development, Srinagar Garhwal	19.09.2025
11.	Role of Endophytes on Over Expression of Natural Products in Plants	Dr. C. Rajasekaran	Dr. Avinash Sharma	Scientist E, National Centre for Cell Science, Pune	19.09.2025
12.	Innovations in Bacterial Vaccine	Dr. Faraz Ahmad	Dr. Swagatika Priyadarsini	Scientist, In-Charge	19.09.2025

	Development: Omics, Reverse Vaccinology, and Beyond			Biochemistry lab, ICAR, Bikaner, Rajasthan	
13.	Biotechnological Interventions for Characterization of Common bean Accessions in Uttarakhand	Dr. C. Rajasekaran	Dr. Arun Kumar Jugran	Scientist E, G.B. Pant National Institute of Himalayan Environment and Sustainable Development, Srinagar Garhwal	19.09.2025
14.	Telomeres and Telomerase in Ageing and Cancer	Dr. Radha Saraswathy	Dr. Prakash Hande	Associate Professor and Assistant Dean, Yong Loo Lin School of Medicine, National University of Singapore, Singapore	24.09.2025
15.	Clinical Trial Information Systems	Dr. K.V Bhaskara Rao	Mr. Shashi Bhushan	Thermofisher Scientific, Bengaluru	24.09.2025





# RESEARCH AND DEVELOPMENT SERIES

Event	Title	Speaker	Address	Organizer
<b>RDS 1</b>	AI/ML Based Drug Design	Dr. Raghu, and Dr. Ajay	Molecular Solution, Bangalore and Product Biosolve IT, Germany	Dr. Sudha Ramaiah & Dr. George Priya Doss C
<b>RDS 2</b>	Modulating Tau Phase Separation: Suramin as a Tool to Study Biomolecular Condensates and Aggregation Dynamics via DLS	Dr. Prince R Prabhu	Institute of Biochemistry and Molecular Biology, AG Betzel, Notkestr, 85, 226, Hamburg, Germany	Dr. Alka Mehta
<b>RDS 3</b>	Isolated 3' UTR mRNAs: Where do they come from and what are they used for?	Dr. Subramaniam Ravichandran	Mary Hynes Lab, Department of Biology, 327 Campus Drive, Stanford University, CA94305 USA.	Prof. Trupti Patel
<b>RDS 4</b>	When Cell Signals Go Wrong: Understanding Blood Vessel Damage in Pulmonary Arterial Hypertension	Dr. Ankita Mitra	Department of Pulmonary and Critical Care Medicine, Stanford University, Stanford, CA	Prof. Trupti Patel

# STUDENT ACHIEVEMENTS

## Sports

### 1. Chief Minister Trophy District–Level Intercollegiate Cricket Tournament

Shreya Supnekar (22BBT0154)

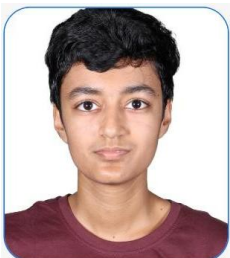


### 2. Chief Minister Trophy District–Level Intercollegiate Football Tournament

Sohan Athmaraman (22BBT0301)



Nishka Jain (24BBT0145)



### 3. Chief Minister Trophy District–Level Intercollegiate Basketball Tournament

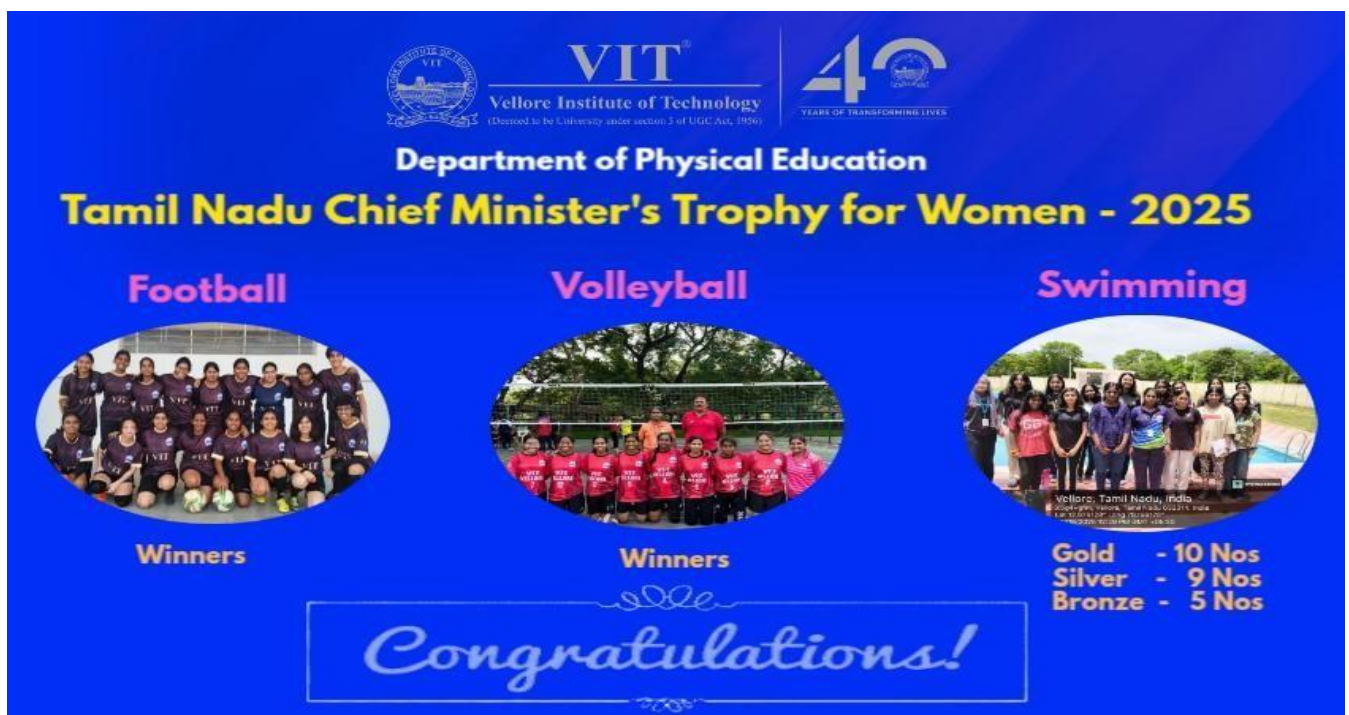
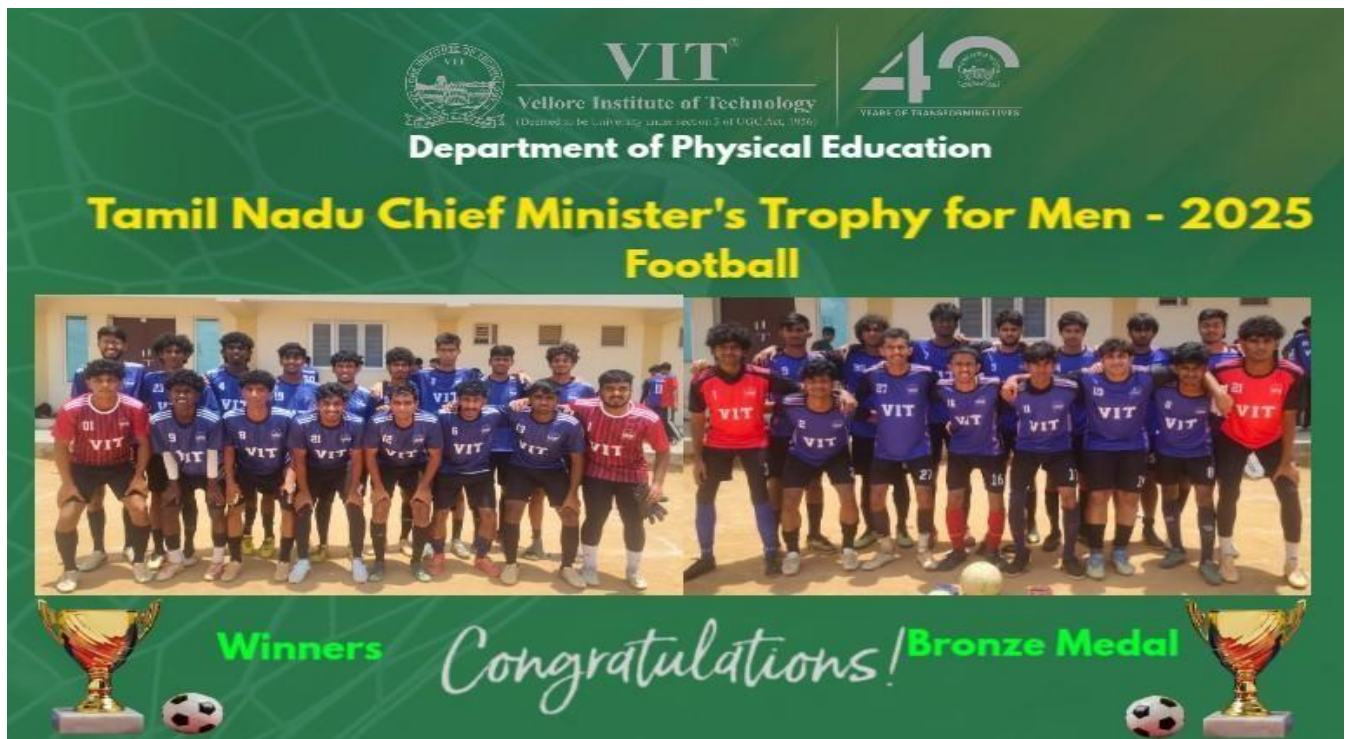
Pooja L (25BBT0186)





#### 4. Chief Minister Trophy District–Level Intercollegiate Volleyball Tournament

Swarnavarshni (24BBT0180)







## HACKATHON

**Shine Hackathon- Dr. MGR Medical University, Tamil Nadu (secured first place and received a cash prize of Rs. 1,00,000 on 25<sup>th</sup> September 2025)**

Krut Doshi (22BBT0134)  
 Rachit Upadhyay (22BBT0120)  
 Harshita Kumar (23BBT0130)  
 Ratnadeep Das (23BBT0066)  
 Soumil Binhani (22BDS0275)





## **Shine Hackathon- St. Peter's Medical College Hospital and Research Institute, Hosur (Second place)**

Krut Doshi (22BBT0134)

Rachit Upadhyay (22BBT0120)

Harshita Kumar (23BBT0130)

Ratnadeep Das (23BBT0066)

Soumil Binhani (22BDS0275)



## **Shine Hackathon (Third place)**

Aarushi Ratan (22BBT0155)

Samrat Sarkar (22BBT0111)

Debosmit Kundu (22BBT0161)



# NALSAR University Parliamentary Debate Tournament

## Novice semi-finals

Ananya Kulkarni (24BBT0064)



## Open pre-quarter-finals

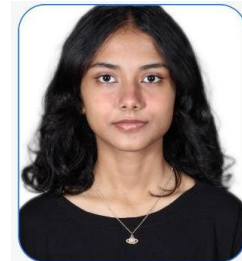
Ananya Sunderesan (23BBT0147)





# Hindustan Institute of Technology and Science Model United Nations

BCD Verbal Mention  
Rithi Kandasamy (24BBT0173)



ECOSOC Honourable Mention  
Parnika Prakash (24BBT0173)



# CSIR-NET AIR 45 and TNSET

Ms. Archana Aloshious (24PHD0809), guided by Prof. Dr. Suneetha Vuppu, has cleared the CSIR- NET examination with an impressive All India Rank 45 and also cleared TNSET 2024 for Assistant Professor.



वैज्ञानिक तथा औद्योगिक अनुसंधान परिषद्  
Council of Scientific & Industrial Research



राष्ट्रीय परीक्षा एजेंसी  
National Testing Agency  
Excellence in Assessment

## JOINT CSIR - UGC NET JUNE 2025 National Testing Agency - Score Card

Application Number:	251610149973	Roll Number:	TN18000083		
Candidate's Name:	ARCHANA ALOSHIOUS				
Mother's Name:	MARY ANITHA				
Father's Name:	ALOSHIOUS BENZEER				
Category:		Person with Disability (PWD):	NO		
Gender:	FEMALE	Date of Birth :			
Subject:	LIFE SCIENCES				
No of Candidates in this Subject:	Registered:	78949	Appeared:		60213
Applied On The Basis Of:	MASTER'S DEGREE				
Applied For:	ASSISTANT PROFESSOR,JRF(JUNIOR RESEARCH FELLOWSHIP),PH.D. ONLY				

### Marks

Paper	Maximum Marks	Percentile Score Obtained@	Marks Obtained
Total Part A, B and C Percentile Score / Marks Obtained	200	95.4959892	81.000
Total Percentile Score Obtained (in words)	NINETY FIVE POINT FOUR NINE FIVE NINE EIGHT NINE TWO ONLY		
Total Marks Obtained (in words)	EIGHTY ONE POINT ZERO ZERO ZERO ONLY		
Result	QUALIFIED FOR ELIGIBILITY TO ASSISTANT PROFESSOR AND ADMISSION TO PH.D		
Rank	45		

Electronic Certificate No 2241246



## GOVERNMENT OF TAMILNADU

### TAMILNADU STATE ELIGIBILITY TEST (TNSET – 2024)

#### For ASSISTANT PROFESSOR

Conducted by  
**Teachers Recruitment Board**  
(Valid in the State of Tamil Nadu only)



TNSET Ref. No. TNSET/01/2024 Roll No. TNS211104035063

Certified that ARCHANA ALOSHIOUS

Son/Daughter of ALOSHIOUS BENZEER S

(Father/ Mother) has qualified the Tamil Nadu State Eligibility Test  
(TNSET - 2024) for Eligibility for Assistant Professor held from 6<sup>th</sup> March 2025 to 9<sup>th</sup> March 2025 in



## CSIR Senior Fellowships

Ms. Janani (20PHD0521), Research Scholar under the guidance of Prof. Siva Ramamoorthy, Plant Biotechnology Lab, SBST.



## Conference Presentation

Mr. Deepak Sharma (23PHD0075), has secured the First Prize in Oral presentation at the National Conference on "Emerging tools & techniques: Bridging Chemistry & AI – CHEMCON 2025", organized by the Department of Pharmaceutical Chemistry, T. John College of Pharmacy in Bangalore, held on 26.07.2025.



## Meritorious Teacher Award

Dr. Shalini Devi Subhala (13PHD0050), worked under the guidance of **Dr. Bhaskara Rao K.V.**, an alumna of our research program and currently Assistant Professor at Bhavan's Vivekananda College in Secunderabad, has been awarded a meritorious teacher award for Teachers' Day 2025 from the Telangana government.



## Visiting Scholarship at NYU

Mr. Lokesh Kumar S (20PHD2120), under the guidance of Dr. Kali Kishore Reddy (Assoc. Prof., CBST), has been selected as a Visiting Research Scholar at Medgar Evers College, City University of New York (MEC, CUNY, USA), in the Department of Chemistry and Environmental Science for a one-year research tenure. He will be mentored by Prof. Michele Vittadello, Professor of Chemistry and Nanoscience, MEC, CUNY.



This opportunity stems from an active Memorandum of Understanding (MoU) between Prof. Michele's research group and CBST. Mr. Lokesh Kumar will receive a monthly stipend of US\$2,660 for one year, commencing on August 15, 2025. He will actively engage with Prof. Michele's research initiatives at CUNY.



# JOURNAL CLUB MEETING

DATE	TOPIC	RESEARCH SCHOLAR	MODERATOR
06.08.2025	Circadian rhythm gene cryptochrome 2 (Cry2) interacts with lipid metabolism to promote vascular aging	Mr. Arun T R	Dr. Gothandam K M & Dr. Dhanya V
06.08.2025	Improving toxic dye removal and remediation using novel nanocomposite fibrous adsorbent	Ms. Shruti Sharma	Dr. Gothandam K M & Dr. Dhanya V
13.08.2025	An In Silico Bioremediation Study to Identify Essential Residues of Metallothionein Enhancing the Bioaccumulation of Heavy Metals in <i>Pseudomonas aeruginosa</i>	Mr. Deepak Kumar M	Dr. Gothandam K M
13.08.2025	<i>Pseudomonas aeruginosa</i> PAO1 Exopolysaccharides are important for mixed species biofilm community development and stress tolerance	Mr. Gautham Siddarth R	Dr. Gothandam K M
03.09.2025	In-silico Evaluation of Bioactive Compounds from <i>Cucumis anguria</i> L. as Potential Inhibitors of Antibiotic-Resistant New Delhi Metallo- $\beta$ -Lactamase (NDM1)	Ms. Elizabeth Annie George	Dr. Sreeja S, SBST
10.09.2025	Biological treatment of methyl orange dye and textile wastewater using halo-alkaliphilic bacteria under highly alkaline conditions	Ms. Priyadarshini K	Dr. Ponraj P & Dr. Syama H P
10.09.2025	Genetic Diversity in Antimicrobial Resistance Determinants Among Pathogenic <i>Pseudomonas aeruginosa</i> in India	Ms. Santhiya V	Dr. Ponraj P & Dr. Syama H P
24.09.2025	PROTACable Is an Integrative Computational Pipeline of 3-D Modeling and Deep Learning To Automate the De Novo Design of PROTACs	Ms. Poobana D	Dr. Sudandira Doss C
24.09.2025	Genome sequencing and comparative genomic analysis of bovine mastitis-associated non-aureus staphylococci and mammaliicocci (NASM) strains from India	Ms. Sara Pearl B	Dr. Sudandira Doss C

## PhD VIVA VOCE

Our heartfelt congratulations to the scholars who have given their final *viva voce* presentations this semester. We wish you the best in your future endeavors.

Sl. No.	Scholar	Supervisor	Thesis title	Date
1	Ms. Mahalakshmi R (15PHD0083)	Dr. Ramesh N	Environmental pollutants monitoring and its assessment in Vellore district, Tamil Nadu, India	07.07.2025
2	Mr. Rohit Karn (15PHD0065)	Dr. Arnold Emerson I	Identification of significant mutations and potential biomarkers targeting breast cancer using molecular docking and simulations	04.07.2025
3	Ms. Pavithra D (16PHD0144)	Dr. Mohana Priya A	Biomarker and lead molecule identification for chronic obstructive pulmonary disease (COPD) through gene expression analysis and systems pharmacology approach	04.07.2025
4	Mr. Prem Anand K (16PHD0595)	Dr. Suthindhiran K	Diversity and gene cluster signature of polyextremophilic marine actinobacteria and its agricultural applications	03.07.2025
5	Mr. Sanjeev K G (20PHD0009)	Dr. Subathradevi C	Novel formulation of nanoparticle encapsulated rapamycin for targeted delivery in lung cancer	08.07.2025
6	Ms. Ramaprabha K (21PHD0105)	Dr. Venkat Kumar S	Nano-bioremediation of synthetic textile effluent through immobilized <i>Brevibacterium casei</i> with zinc oxide nanoparticles	11.07.2025
7	Ms. Kanagavalli R (20PHD0713)	Dr. Devi Rajeswari V	Effect of sesbania grandiflora mediated zinc oxide nanoparticles on insulin resistance induced-neurodegeneration by regulating insulin signaling pathway	17.07.2025
8	Mr. Mouliganesh S (18PHD0169)	Dr. Kavitha Thirumurugan	Understanding the role of tp53inp2 in the regulation of lipophagy during adipocyte development	18.07.2025



9	Ms. Shreya Chakraborty (20PHD0856)	Dr. Devi Rajesari V	Exploration of the therapeutical aspects of green synthesized waste based titanium dioxide nanoparticles from <i>Hordeum vulgare L.</i> on the consequences of letrozole induced insulin resistance and polycystic ovary syndrome in Wistar rat model	18.07.2025
10	Ms. Manosi Banerjee (20PHD2054)	Dr. Devi Rajeswari V	Dissolvable microneedles loaded with <i>Elettaria cardamomum</i> -derived plant exosomes inhibit triple-negative breast cancer	21.07.2025
11	Ms. Debolina Chatterjee (22PHD0021)	Dr. Karthikeyan S	Drug repurposing and novel antimicrobial peptides against MDR <i>Pseudomonas aeruginosa</i>	21.07.2025
12	Ms. Aswathi p (19PHD0292)	Dr. Radha Saraswathy , dr. Wilner Martinez-Lopez	A comprehensive analysis of epidemiology, oxidative stress, trace elements, genetics, and psychological impact in asthma patients: a hospital-based study	21.07.2025
13	Ms. Botlagunta Navya (20PHD0624)	Dr. Babu S	Microbiome Engineering Through Characterization And Functional Evaluation For Growth And Tolerance To Fusarium Wilt Disease In Cucumber ( <i>Cucumis Sativus L.</i> )	28.07.2025
14	Mr. Anirban Goutam Mukherjee (21PHD0048)	Dr. Abilash V.G	Exploring the therapeutic effect of urosolic acid on arsenic induced male reproductive toxicity: an integrative biology approach	28.07.2025
15	Ms. Krithika Ganesh (21PHD0125)	Dr. Karthikeyan S	Green technologies for industrially relevant chemicals	28.07.2025
16	Ms. Janani M (19PHD0241)	Dr. Ramalingam C	Development of sulfated polysaccharide based biodegradable film reinforced with seaweed biomass derived nanofillers for food packaging	25.07.2025
17	Ms. Mona Kumari (18PHD0094)	Dr. Kali Kishore Reddy Tetala	Development of an affinity based microfluidic array chip to enrich glycoproteins from human samples	29.07.2025
18	Ms. Pearl John (20PHD0515)	Dr. Sudandira Doss C	Integrated network biology approach to explore selective receptors in notch signaling and their corresponding SNPs associated with lung adenocarcinoma	21.08.2025
19	Mr. PAYAS S (16PHD0488)	Dr. Abul Kalam Azad Mandal	Therapeutic intervention studies of theaflavins loaded nanoparticles using rat model for rheumatoid arthritis	01.09.2025
20	Ms. KU. NIKITA SHARMA	Dr. Suneetha V	Identification and characterization of leather effluent degrading bacteria from Ranipet and Dewas for industrial applications	15.09.2025

## FORTHCOMING EVENTS



**12th Edition**  
**Bridging Industries & Academia**  
**Impact of Artificial Intelligence in  
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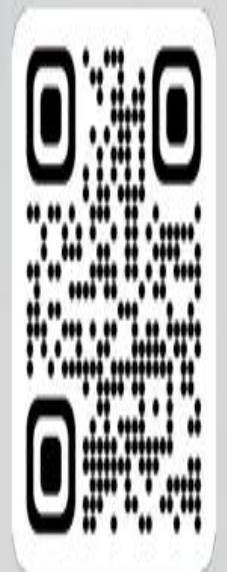


12<sup>th</sup> Edition

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**28<sup>TH</sup> OCTOBER 2025**



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# STUDENTS' CORNER

## AI Copilots Driving the Prime Editing Revolution

Imagine a baby born with a hereditary condition that only embodies symptoms, and medicine can provide treatment for the condition. Forever, families have been resigned to the consideration that an error in the DNA blueprint for life is a permanent error. However, these new advances in genome editing may prove to be a circumstance of

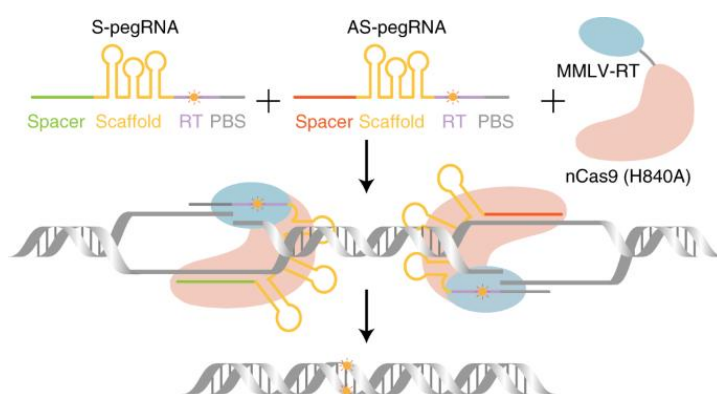
thinking for the families of future children. Researchers are developing instruments for genome editing that not only correct symptoms of hereditary illnesses but also repair the damaged DNA. Among these developments of distinction are prime editing and the emergence of artificial intelligence development with the aim of developing the vision for genome editing into a reality.

In genetics, "prime editing" is often referred to as a "search-and-replace" method. Prime editing practically implies that particular replacements, or small changes, may be made with lower danger than such methods as CRISPR-Cas9 genome editing, implementing an edit followed by a hoped-for repair of that edit. Hence, this is a safer and more efficient method of eliminating disease-causing mutations than the older ones. AI copilots also provide additional power by aiding scientists in creating and verifying changes. Foremost, machine learning models are often capable of lowering errors, providing higher safety guarantees, as well as forecasting which changes will result in a positive reaction. Hence, through the use of AI, one can avoid the lengthy trial-and-error cycles that are typical in the experimentation process, as the AI will select the most favorable scenarios for the process to be carried out rapidly and effectively.

AI and prime cutting are two amazing technologies that are particularly fascinating because of their mutually supporting properties. AI gives a system with smart computations that ensure that the alterations are safe, efficient, and rightly targeted, but gene modification has been performed via prime editing. Thus, merging AI and prime editing not only advances the feasibility of genome editing in clinical settings but also opens the door to the concept of gene therapy as a realistic option for patients with hereditary diseases. Besides, the impact of this integration would not be limited to the area of healthcare.

Source- *Emerging trends in prime editing for precision genome editing. Exp Mol Med 57, 1381–1391 (2025), Revolutionizing CRISPR technology with artificial intelligence. Exp Mol Med 57, (2025).*

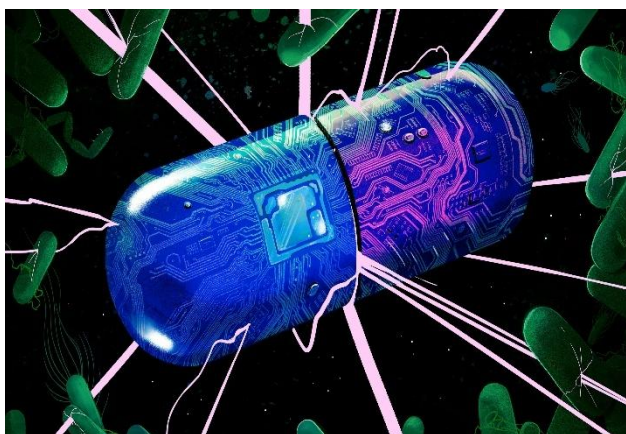
**Aarushi Ratan(22BBT0155), Debosmit Kundu(22BBT0161), B.Tech. Biotechnology**





## AI Joins the Fight against Antibiotic Resistance

Researchers are now harnessing the power of artificial intelligence to confront one of medicine's greatest threats: antibiotic resistance. As more bacteria evolve defenses against our existing drugs, scientists have begun using machine learning to rapidly generate thousands of new chemical compounds that might act as antibiotics. In mere minutes, algorithms can propose a vast library of candidate molecules—something that would take human chemists months or years to conceive. But whether any of those candidates can become safe, effective medicines remains uncertain.



Traditionally, discovering antibiotics has relied on sifting through nature: exploring soil microbes, fungi, or venomous organisms, isolating chemicals, and testing them in the lab. But the pace of discovery has slowed, especially as resistance spreads. AI presents an appealing shortcut. By training computational models on known antibiotics and their biological effects, researchers teach the system to predict whether a new chemical structure might kill bacteria. Once the algorithm generates promising candidates, scientists can prioritize those for laboratory testing. One compelling direction is mining ancient or exotic life forms that have evolved unique molecular tricks. A team recently applied an AI tool to study Archaea, a domain of life distinct from bacteria and eukaryotes, to identify antimicrobial peptides they called “archaeasins.” Of 80 tested candidates, 93 percent showed activity against at least one bacterial strain. In animal models, three compounds halted the spread of a drug-resistant bacterium. One matched the potency of polymyxin B, a last-resort antibiotic. Yet many obstacles stand between a computer-designed molecule and a usable drug. First, compounds must be safe for human cells, avoid harmful side effects, and remain stable in the body. Many candidate molecules fail once toxicity or pharmacological limitations emerge. Moreover, the algorithms themselves are constrained by their training data: they may miss clever chemical designs that lie beyond known examples. The models' predictions are only as good as the patterns in the data.

Another barrier is the economics of antibiotic development. Bringing a candidate through preclinical testing, clinical trials, regulatory approval and manufacturing is enormously expensive. Ironically, antibiotics are less profitable than long-term medications, because they are used briefly and often held in reserve. Thus, companies may lack financial incentives to invest. Support from governments, non-profits or public-private partnerships is essential to sustain development.

In short, AI offers a dazzling acceleration of early antibiotic discovery—expanding the search far beyond what humans could imagine manually. But it is not a silver bullet. The path ahead still demands rigorous laboratory validation, safety testing, funding and ingenuity. If those pieces fall into place, some of those thousands of AI-proposed molecules may yet become the antibiotics of the future.

*Source- Rachel Fieldhouse (2025). AI has designed thousands of potential antibiotics. Will any work? Nature. <https://doi.org/10.1038/d41586-025-03201-6>*

**Toshika Mishra (21PHD0218)**

## Some Glimpses of SBST

EMP ID	FACULTY NAME	DESIGNATION	ACHIEVEMENTS	DETAILS
10357	Dr. KARTHIKEYAN S	Professor and Dy. Director CDC	Service	24 years 3 Months
10357	Dr. KARTHIKEYAN S	Professor and Dy. Director CDC	Industry Consultancy Projects	3166401
10791	Dr. SIVA R	Professor Higher Academic Grade	International Visit	More than 10 countries
10832	Dr. SUNEETHA V	Professor Higher Academic Grade & Dean SBST	Awards @ > 55	RED CROSS, DST, FICCI, ICMR, Govt. of India
10832	Dr. SUNEETHA V	Professor Higher Academic Grade & Dean SBST	Patents	13
11468	Dr. ANAND A	Professor Higher Academic Grade & Associate Dean SBST	Fund Generated	>5 crores
12175	Dr. GEORGE PRIYA DOSS	Professor	Publications	346
12175	Dr. GEORGE PRIYA DOSS	Professor	Citations	6,656 Citations by 5,098 documents
12175	Dr. GEORGE PRIYA DOSS	Professor	h- index	41
12365	Dr. PRITI TALWAR	Professor	Most cited paper	1683- Autophagy

### STUDENT NOTABLE ACHIEVEMENT

Reg. No	Alumni Name	ACHIEVEMENTS
06BBT090	Ms. Kadhambari S Viswanathan	"Limca Book of Records"
08BBT166	Mr. Rachit Raj	Indian Administrative Service Govt. of India with more distinguished awards - UPSC 3 <sup>rd</sup> Rank Holder
08BBT178	Mr. Rajveer Meena	Guinness World Record
11BBT0081	Mr. Vidur Sabharwal	secured All India Rank (AIR)-1 in GATE EXAMINATION 2015 (Biotechnology).
12BBT0104	Lt. Shubhangi Swaroop	First female pilot of the Indian Navy. She is a pilot of Maritime reconnaissance aircraft in Indian Navy

### STAFF



EMP ID	STAFF NAME	ACHIEVEMENTS
10123	Mrs. Santhi Veerasamy	>27 years of service
12176	Mrs. K. Mythili	Proficient in multiple languages

EMP ID	FACULTY NAME	DESIGNATION	ACHIEVEMENTS	DETAILS
10357	Dr. KARTHIKEYAN S	Professor and Director Alumni Affairs	Industry Consultancy Projects	>50 lakhs
10515	Dr. KANNABIRAN K	Professor Higher Academic Grade	Guided more Ph.D Scholars and awarded	>18
10712	Dr. SUDHA RAMAIAH	Professor	Sports and games	Participated and Won Prizes > 15 years
10791	Dr. SIVA R	Professor Higher Academic Grade	International Visit	More than 12 countries
10832	Dr. SUNEETHA V	Professor Higher Academic Grade & Dean SBST	UG Publications	>72
10832	Dr. SUNEETHA V	Professor Higher Academic Grade & Dean SBST	Abroad University Visited @ >25	Nanyang Technological University (NTU), National University of Singapore (NUS), , and Singapore Management University (SMU), Tribhuvan University, Kathmandu University, Pokhara University, University of Oxford, University of Cambridge, Imperial College London, UCL (University College London), the University of Edinburgh, and King's College London, University of Florida, Boston University, Florida State College of Jacksonville, University of North Florida, Santa Fe College, University of Chicago, University of Illinois, Illinois State University, Illinois

				Wesleyan University, DePaul University, North Western University and Bradley University etc.
10832	Dr. SUNEETHA V	Professor Higher Academic Grade & Dean SBST	Patents	19
11264	Dr. GOTHANDAM K.M	Professor Higher Academic Grade	Guest Lectures and training programs or workshops Organized	>50
11468	Dr. ANAND A	Professor Higher Academic Grade & Associate Dean SBST	Research	More Collaborations with top Institutes
11993	Dr. RASOOL M	Professor Higher Academic Grade	Administrative Roles Experience at VIT	>6
12175	Dr. GEORGE PRIYA DOSS	Professor	Fund Generated	Above 6 crores
12175	Dr. George Priya Doss C	Professor	High Citation	1431
12175	Dr. GEORGE PRIYA DOSS	Professor	Publications	353
12175	Dr. GEORGE PRIYA DOSS	Professor	Citations	7,059 Citations by 5,098 documents
12175	Dr. GEORGE PRIYA DOSS	Professor	h- index	42
12365	Dr. PRITI TALWAR	Professor	Most cited paper	1806- Autophagy
13290	SUDHAKARAN R	Asso. Prof Sr.	2025 more collaboration and MOU for research	Japan
<b>STUDENT NOTABLE ACHIEVEMENT</b>				
<b>Reg. No</b>	<b>Alumni Name</b>	<b>ACHIEVEMENTS</b>		
06BBT090	Ms. Kadhambari S Viswanathan	"Limca Book of Records"		



08BBT166	Mr. Rachit Raj	Indian Administrative Service Govt. of India with more distinguished awards - UPSC 3 <sup>rd</sup> Rank Holder
08BBT178	Mr. Rajveer Meena	Guinness World Record
11BBT0081	Mr. Vidur Sabharwal	Secured All India Rank (AIR)-1 in GATE EXAMINATION 2015 (Biotechnology).
12BBT0104	Lt..Shubhangi Swaroop	First female pilot of the Indian Navy. She is a pilot of Maritime reconnaissance aircraft in Indian Navy
<b>STAFF</b>		
<b>EMP ID</b>	<b>STAFF NAME</b>	<b>ACHIEVEMENTS</b>
10123	Mrs. Santhi Veerasamy	>28 years of service
12176	Mrs. K. Mythili	Sports and games (won >20 prizes ) VIT Tournaments
80225	Mrs. Lathapriya R	Voluntary Service Rendered at Darshini and Thaaai Karangal by VIT from 19 <sup>th</sup> to 26 <sup>th</sup> May 2025 for Basic Computers for Visually Challenged.

#### FACULTY TOTAL SCOPUS PUBLICATIONS MORE THAN 150 WITH VIT AFFILIATION

Sl. No	ERP NO	FACULTY NAME	DESIGNATION	Faculty Total Scopus Publications
1	10832	Dr. Suneetha V	Professor Higher Academic Grade & Dean, SBST	165
2	11468	Dr. Anand A	Professor Higher Academic Grade & Associate Dean, SBST	161
3	10613	Dr. Ramanathan K	Professor Higher Academic Grade	156
4	10678	Dr. Bhaskara Rao K.V	Professor Higher Academic Grade	155
5	10791	Dr. Siva R	Professor Higher Academic Grade	181
6	11264	Dr. Gothandam K.M	Professor Higher Academic Grade	163
7	11477	Dr. Jayanthi A	Professor Higher Academic Grade	177
8	10712	Dr. Sudha Ramaiah	Professor Grade 2 & HoD	153
9	12175	Dr. George Priya Doss C	Professor Grade 1	362
10	12611	Dr. Abilash V.G	Associate Professor Sr.	211

## SPONSORED PROJECTS



## SBST- A MOVE TO CONSULTANCY GLIMPSES OF CONSULTANCY PROJECTS





## Research facilities

- Agri & Environmental Biotechnology
- Animal House
- Antibiotic Resistance
- Apoptosis and Cell Death
- Aquaculture Biotechnology
- Bio Materials
- Biochemical & Analytical Instrumentation
- Biochemistry and Immunology
- Bio-inspired Design
- Biomedical Genetics
- Bioprocess & Downstream
- Bioremediation
- Cancer Biology
- Cell & Molecular Biology
- Cell Culture
- Central Cell Culture
- Central Instrumentation
- Centre Instrumentation
- Computational Biology
- Environmental Biotechnology
- Fermentation
- Gene Cloning
- Gene Therapy
- High Throughput Screening
- Immunopathology
- Instrumental and Food Analysis
- Marine Biotechnology & Bioproducts
- Medical Biological Computing
- Medical Biotechnology



- Medical Informatics
- Microbial Biotechnology
- Microbial Molecular Biology
- Microbiology
- Molecular Biology
- Molecular Endocrinology
- Nano Bioengineering
- Nano therapy
- Plant Biotechnology
- Protein Chemistry
- Protein Engineering
- Renal Research
- Scanning Electron Microscope
- Structural Biology
- Systems Biology
- Tissue Culture
- Vector Production

## School of Bio Sciences and Technology



## COMPLETED PROJECTS

1. Gene editing of the virulent gene from E.coli using CRISPR system- Salem Microbes Pvt Ltd, India
2. Studies on Antiviral and antibacterial activities of Novel Combinations- KYNTOX BIOTECH INDIA PVT LTD, India.
3. Oleogels for prototypes melting at 37c with a good sensory chocolates (project Elixir)- ITC, India
4. Optimizing the extraction molecular characterization bio-activities of chlorella growth factor- E I D Parry India Limited, India
5. AC and Air Purifiers Microbial Quality Analyzed- Eureka Forbes, India
6. Scientific and Technical Consultancy- Eureka Forbes, India
7. Consultancy P A Footwear- Ms P A Footwear Pvt. Ltd, INDIA
8. Viral and Actinomycetes assay in Air conditioning missions and air purifiers- EUREKA FORBES, India
9. Scale up of microbes for liquid biofertilizers- OmniActive Health Technologies, India
10. APR Applied Pharma Research s.a.- APR Growing Innovation, Switzerland
11. Preventive and prophylactic Efficacy of Commercial probiotics in Tilapia Fishes Experimentally Infected with Vibrio parahaemolyticus- Organic Biotech Pvt. Ltd, India
12. Disinfection of factory and godown with pre and post treatment- otto clothing Pvt Ltd, India
13. Fabrication of collagen patch- Healthium Medtech Ltd, India
14. Confirmation of Anti-WSSV activity of potential bioactive molecules towards commercialisation process- Kyntox Biotech India Pvt LTD, India
15. ETP treatment by phycoremediation-microbes- SOLISTAA Pharmaceuticals, India
16. Metabolic Engineering of Corynebacterium glutamicum for hyper production of Citric acid- Wisecorner Laboratories Pvt Ltd, India
17. Characterisation of fat developed using oil structuring technology- Fattastic Technologies Pvt Ltd, Singapore
18. Effect of phyto compound PHY-XXI on Nucleolin levels in TAXOL and Cis-Platin resistant HeLa/MCF-7 and MDA-MB231 cell lines- Phyto Specialities Pvt Ltd, India
19. Development of Bioceramic 3D scaffolds by extrusion-based printing technique using Cellink BIOX system- Altam Technologies Pvt Ltd, India
20. Antimicrobial activity of the effective molecules against pathogens- ManushyaaBlossom Private Limited, India
21. Herbal-Nano based Bio application studies- Xcellogen Biotech India Pvt Ltd, India
22. Development of bacteriocin for the food industry application- Salem Microbes Private Limited, India
23. Chemical Characterization Of Plant Extracts- AYUSH, India
24. Research personnel and technical information exchange- Next Big innovation Lab, India

## FUTURE PROJECTS

1. Development of biofertilizers and biopesticides
2. Flower waste management strategies
3. Bioplastic production
4. Soil microbiome optimization
5. Sustainable development of biofuels
6. Healthcare and personalized medicines



## ONGOING PROJECTS

1. Evaluation of carotenoids, antioxidant enzyme, antioxidant compounds protein and photosynthetic pigments in stress-treated grape leaves- United Arab Emirates, United Arab Emirates
2. Inhibition of EHP in Marine Ecosystem- Aarpy Bio Solution, India
3. Gene editing of the virulent gene from E.coli using CRISPR system- Salem Microbes Pvt Ltd, India
4. Disinfection of factory and godown with pre and post treatment- Otto clothing Pvt Ltd, India
5. Fabrication of collagen patch- Healthium Medtech Ltd, India
6. Application of various formulation for the restriction of microbial growth- Otto clothing Pvt Ltd, India
7. Confirmation of Anti-WSSV activity of potential bioactive molecules towards commercialisation process- Kyntox Biotech India Pvt LTD, India
8. Inhibition of microbes in textile fabric- Otto clothing Pvt Ltd, India
9. Preparation of semichemicals-based formulation for pigs-MAGAPOR S L, Spain
10. Inhibition of Microbial growth in textile fabrics- Otto clothing Pvt Ltd, India
11. ETP treatment by phycoremediation-microbes- SOLISTAA Pharmaceuticals, India

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**Dr. G. Viswanathan**

**Founder and Chancellor**

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- Biotech startups and entrepreneurs
- Pharmaceutical companies
- Agricultural businesses
- Environmental organizations
- Government agencies

### GET IN TOUCH

**Dr. Suneetha V. Dean SBST**



91 416 220 2661 / 2662 / 2663



dean.sbst@vit.ac.in



School of Bio Sciences and Technology  
Vellore Institute of Technology(VIT),  
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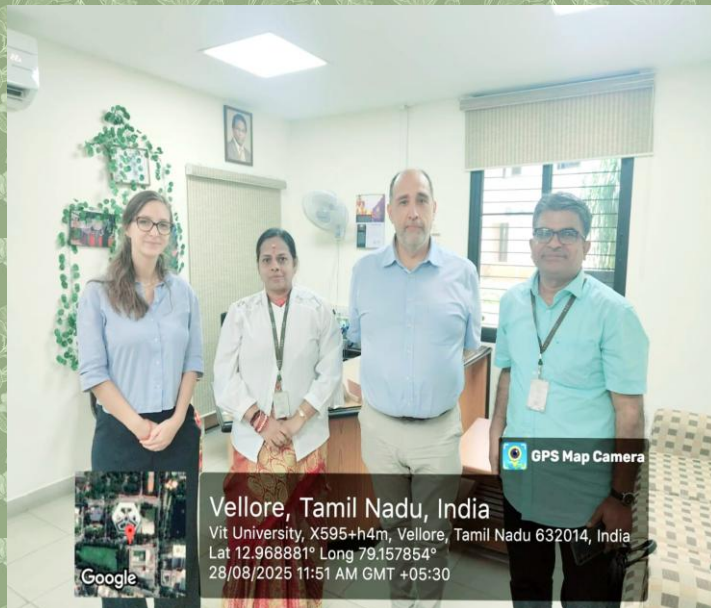


### CONSULTANCY PROJECTS SBST

Expertise & innovation, working for you.



# FOREIGN FACULTY/ ADJUNCT PROFESSORS' VISITS





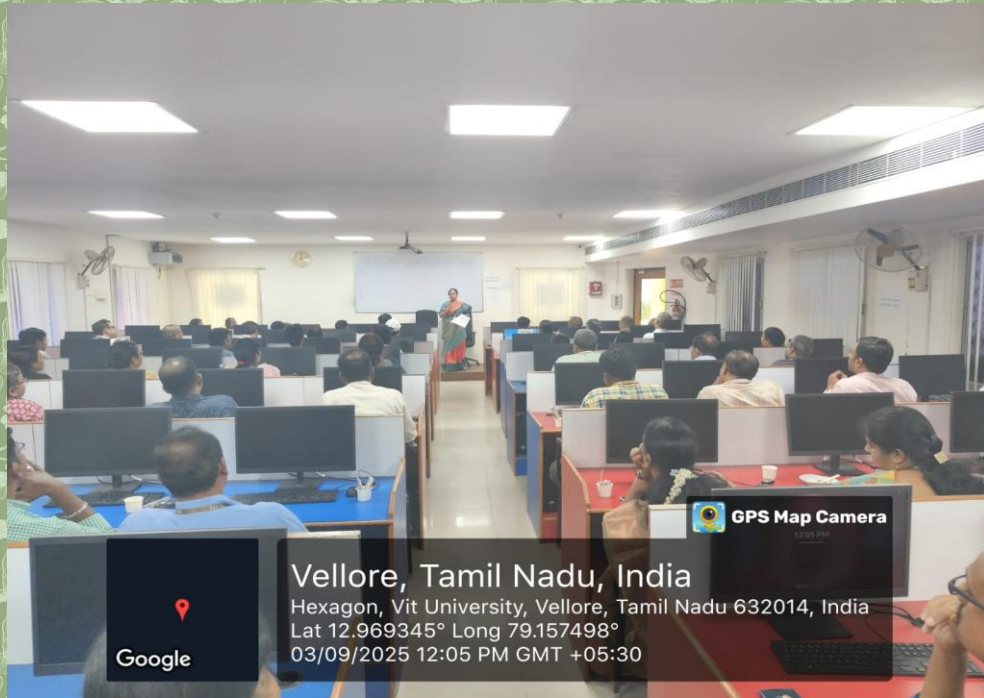


## SIGNIFICANT EVENTS (July – September 2025)



VIT Teacher's Day celebration 2025 (photos with our beloved Registrar ma'am)









INTERNATIONAL RESEARCH COLLABORATIONS/ ABROAD VISITS







**PROGRAMMES OFFERED**  
**SCHOOL OF BIO-SCIENCES AND TECHNOLOGY**  
**(SBST)**

**Undergraduate Program**

B. Tech Biotechnology

**Postgraduate Program**

M.Sc. Biotechnology,  
M.Sc. Biomedical Genetics  
M.Sc. Applied Microbiology  
M. Tech. Biotechnology  
M.Sc. Biotechnology  
(Integrated 5yrs)  
M.Sc. Food Science &  
Tech. (Integrated 5 yrs)

**Research Program**

Doctor of Philosophy (Ph.D.)  
Integrated PhD  
Deep-Tech PhD

*"The most beautiful experience we can have is the mysterious. It is the fundamental emotion that stands at the cradle of true art and true science."*

*- Albert Einstein*



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**Ms. Ananya Sen Sarma**

**Ms. Devyani Charan**

**Mr. Dashrath Shriwas**

**Mr. Debosmit Kundu**

The graphic features the VIT logo at the top left, with the text 'VIT Vellore Institute of Technology (Deemed to be University under section 3 of UGC Act, 1956)'. To the right is a '40 YEARS OF TRANSFORMING LIVES' logo. The main title 'Sustainability through Technology for a Greener Tomorrow' is centered, with 'Greener Tomorrow' in a green box. Below the title are large green 3D letters 'VIT'. At the bottom, a white box contains the 'QS WORLD UNIVERSITY RANKINGS SUSTAINABILITY | 2025' logo. Below this, a green background shows a world map with the text 'World Rank 396' and 'India Rank 8'.

**VIT**  
Vellore Institute of Technology  
(Deemed to be University under section 3 of UGC Act, 1956)

**40**  
YEARS OF TRANSFORMING LIVES

**Sustainability through Technology  
for a Greener Tomorrow**

**VIT**

**QS** WORLD UNIVERSITY RANKINGS  
SUSTAINABILITY | 2025

**World Rank**  
**396**

**India Rank**  
**8**

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