



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

SCHOOL OF BIO SCIENCES AND TECHNOLOGY

Celebrating 25 Years of Excellence in Education, Research, and Innovation



BIOBROADCAST

APRIL - JUNE 2026

Vellore Institute of Technology

VIT is a world-class institution committed to delivering international-standard higher education. Ranked 691st globally by QS and 142nd in Engineering and Technology, the VIT Group of Institutions boasts a robust academic ecosystem. It offers 71 undergraduate, 58 postgraduate, 15 integrated, and 2 MTech industrial programs, alongside two dedicated research tracks. Expanding the frontiers of innovation, VIT also provides advanced full-time, direct, and deep-tech PhD programs across Engineering, Management, Science, and Languages.



Dr. G. Viswanathan
Founder & Chancellor

Dr. 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 Bhaskaran, Vice Chancellor

Dr. Partha Sharathi Mallick, Pro-Vice Chancellor

Dr. T. Jayabharathi, Registrar

Our Inspiration



Hon'ble Chancellor Dr. G. Viswanathan has been a visionary leader whose commitment to education has inspired generations of students to pursue excellence with purpose and integrity. Under his dynamic leadership, Vellore Institute of Technology (VIT) has evolved into a globally recognized institution dedicated to academic excellence, innovation, and societal impact. Guided by his belief that “Knowledge is a protective shield which cannot be ruined by any external force,” VIT continues to uphold a strong foundation of quality education and lifelong learning.

The university nurtures a vibrant and inclusive academic ecosystem that promotes creativity, discipline, collaboration, and continuous improvement. Through extensive national and international partnerships with leading academic institutions and industries, VIT equips students and researchers with global perspectives while contributing to scientific advancement and economic growth. Rooted in the principles of service, compassion, and ethical leadership, the institution remains committed to student-centric education, social responsibility, mutual respect, and excellence in all its endeavors, thereby transforming lives and empowering communities through knowledge.

Thank you so much, sir, for your blessings, encouragement, and support...

Dean's Message



It gives me immense pleasure to present the April–June 2026 edition of “BioBroadcast”, a special issue celebrating 25 years of excellence in education, research, innovation, and societal impact at the School of Bio Sciences and Technology (SBST), VIT. We take great pride in the collective achievements of our faculty, students, research scholars, alumni, and staff who continue to strengthen SBST’s reputation as a premier center of academic and scientific excellence.

This quarter has witnessed exceptional progress across our academic ecosystem. Our faculty have demonstrated outstanding productivity through high-impact publications, funded projects, patents, and interdisciplinary collaborations. These efforts reflect our commitment to translating research into innovative solutions addressing real-world challenges in healthcare, agriculture, environmental sustainability, food technology, and biotechnology. It includes research breakthroughs in sustainable bioprocess engineering, microbiome modulation, nanobiotechnology, gene coding, AI in bioresearch, and novel approaches to combat antimicrobial resistance. Equally inspiring are the achievements of our students and scholars, who have excelled in prestigious fellowships, national and international competitions, hackathons, and doctoral milestones, reaffirming our mission to nurture future scientific leaders.

The School has also enriched its academic environment through workshops, guest lectures, foreign faculty interactions, and industry engagements. These initiatives expose our community to cutting-edge developments while fostering interdisciplinary learning and robust academia-industry partnerships. Such collaborations reinforce our vision of training globally competent professionals dedicated to sustainable development. Visiting foreign institutions and participating in international conferences facilitated rich knowledge exchange and collaborative discussions, opening new avenues for future joint research partnerships. As we move forward, SBST remains committed to fostering excellence in research, innovation-driven education, and global partnerships. I extend my sincere gratitude to our faculty, students, alumni, and well-wishers for their unwavering dedication. Together, let us continue to push the boundaries of scientific discovery.

I hope you enjoy reading this edition of “BioBroadcast” and celebrating the remarkable achievements of the SBST family.

Prof. Dr. Suneetha Vuppu
Dean SBST

VIT University Rankings - 2027



We aren't just moving up the ladder
we are rewriting the top tier



VIT University Rankings - 2026



VIT University Rankings - 2025



BY SUBJECT 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

VIT University Rankings - 2025



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Pioneering Sustainability

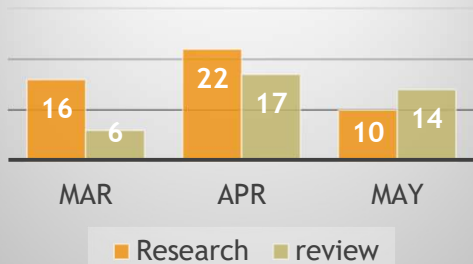


QS **WORLD**
UNIVERSITY
RANKINGS
SUSTAINABILITY | 2026

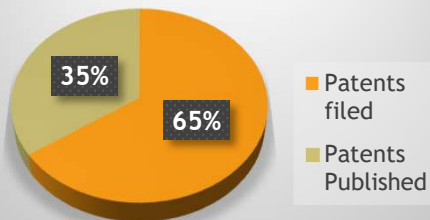
Sl. No	World Rank	India Rank	Institution Name	Location	Overall Score
1	=205	1	Indian Institute of Technology Delhi (IITD)	India	83.1
2	235	2	Indian Institute of Technology Bombay (IITB)	India	81.4
3	=236	3	Indian Institute of Technology Kharagpur (IIT-KGP)	India	81.3
4	=241	4	University of Delhi	India	80.9
5	305	5	Indian Institute of Technology Madras (IITM)	India	77.3
6	=310	6	Indian Institute of Technology Kanpur (IITK)	India	77
7	=352	7	Vellore Institute of Technology (VIT), Vellore, India	India	74.9
8	=352	7	Indian Institute of Technology Roorkee (IITR)	India	74.9
9	=462	9	Indian Institute of Science (IISc) Bangalore	India	70.5
10	=467	10	Manipal Academy of Higher Education, Manipal, Karnataka, India	India	70.3
11	478	11	Anna University	India	69.8
12	487	12	Birla Institute of Technology and Science, Pilani	India	69.4

SBST at a glance

Publication I.F>3



Patents



INTERNATIONAL GRANT



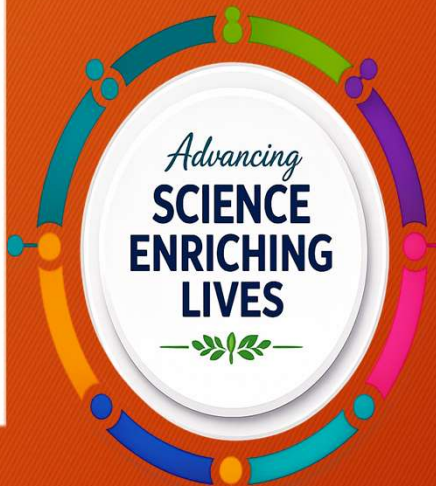
Erasmus+ International
Credit Mobility (ICM)
€20,668



3

EVENTS ORGANIZED

Workshops | Hackathons
Hands-on Training



3

CONSULTANCY PROJECTS

Total Funding
₹3.68 Lakhs

20+
STUDENTS &
RESEARCH SCHOLARS
ACHIEVEMENTS

DISCOVER. INNOVATE. ACHIEVE.

Transforming Ideas into Impact.



EMPOWERING MINDS | ENRICHING RESEARCH | BUILDING FUTURES



20+
PhD Selections &
Fellowships

Recognized for academic
excellence and research
potential.



17
International
Fellowships

Global exposure and
opportunities to drive
impactful research.



20+
Awards &
Recognitions

Honoring outstanding
performance and
contributions.



**Best Paper
Awards**

For research
excellence and
academic rigor.



**National
Hackathon
Winners**

Innovation in action
solving real-world
challenges.



**Research Scholars
Excelling
Globally**

Driving discoveries
that create a lasting
difference.

“

From curiosity to contribution,
we achieve, we inspire, we lead.



26
GUEST
LECTURES

KNOWLEDGE SHARED.

Inspiration Ignited.



Engaging Minds | Expanding Horizons | Building Futures



**Alumni
Connect**



**National &
International
Experts**



**R&D
Lecture
Series**



**Diverse Ideas
Powerful
Discussions**

“

From thought-provoking talks to meaningful connections,
every lecture fuels progress.



Birthday Celebrations of our Beloved **Dr. Sankar Viswanathan** (Respected Vice President)



Celebrating Leadership and Generosity: Respected Executive Director Dr. Sandhya Mam Donates ₹25 Lakhs to UHET on Her Birthday



Newly Joined Faculty

A Warm Welcome to Our New Faculty Members: Joining the SBST Academic Family. May their academic and research insights drive forward our Institution's commitment to excellence. *Wishing them a successful, fulfilling, and rewarding journey ahead!!*

S.No	ERP ID	Name	Designation	Photo
1	23746	Dr. Gobi Saravanan K	Associate Professor Senior Grade 2	
2	23800	Dr. Bharat Manna	Associate Professor Senior Grade 1 (Research)	
3	23832	Dr. Shahila Parween	Associate Professor Senior Grade 1 (Research)	

Honouring Our Retired Faculty

The department extends its heartfelt gratitude and appreciation to **Dr. Alka Mehta and Dr. Radha Saraswathy** for their years of dedicated service, academic excellence, and invaluable contributions to teaching, research, and mentorship. Their commitment and inspiring legacy have left an enduring impact on the institution and generations of students. We wish them a happy, healthy, and fulfilling **retirement (25.5.2026)** and thank them for their remarkable journey of service.



EVENTS ORGANIZED

Clinical Data Management on 2nd Apr 2026

Clinical Data Management (CDM) is a core **component of clinical research and healthcare analytics**, ensuring the accuracy, integrity and regulatory compliance of clinical trial data. With the expanding scope of the pharmaceutical and biotechnology industries, there is a growing requirement for trained manpower with foundational knowledge of clinical research data handling. This workshop is proposed to bridge the gap between academic learning and industry requirements by providing students with structured exposure to clinical data management concepts, tools and career opportunities which was held on **2nd April, 2026** and **organized by Dr. K. Suthindhiran and Dr. J. Godwin Christopher, SBST, VIT, Vellore.**



IMMUNO-THON 2.0 on 7th Apr 2026

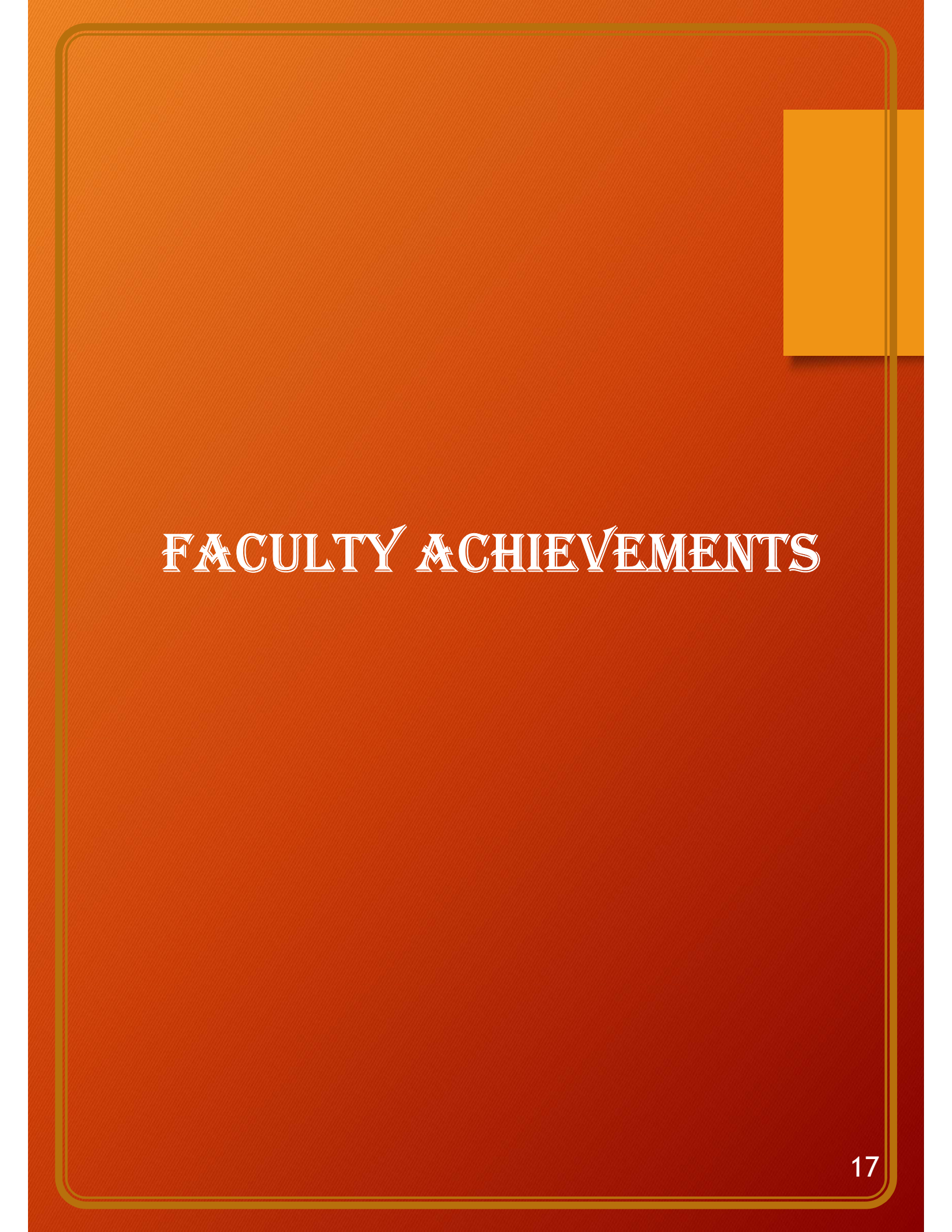
The School of Bio-Sciences and Technology (SBST), VIT, organized **Immuno-thon 2026** on **7 April 2026**, a two-day hackathon focused on solving real-world challenges in immunology. The event brought together students and researchers to develop innovative solutions using **Artificial Intelligence (AI)** and **Machine Learning (ML)**. Participants worked collaboratively on interdisciplinary projects, promoting innovation and computational approaches in biomedical research



Hands-on Workshop On Drug Discovery and AI Applications on 27th and 28th April 2026

The School of Bio-Sciences and Technology (SBST), VIT, organized a two-day workshop on **AI in Drug Discovery** on **27–28 April 2026**. The workshop provided hands-on training in structure-based drug design, molecular modelling, and binding affinity analysis using **Flare software**. Participants gained practical experience in applying AI-driven approaches to therapeutic discovery, fostering innovation in computational drug development and translational research.





FACULTY ACHIEVEMENTS

Faculty Achievements

- **Consultancy Project with Salem Microbes Pvt. Ltd.** was secured by **Dr. Mohanasrinivasan V** (Consultant) and **Dr. Subathradevi C** (Co-Consultant) with a sanctioned amount of **₹1,18,000**.



- **Dr. Janaki Ramaiah M** secured a consultancy project from **KRR Innovation Private Limited** with funding of **₹2.50 lakh**.



- **Dr. Sajitha Lulu S** and **Dr. Vino S** secured an **Erasmus+ International Credit Mobility (ICM) Grant** of **€20,668** for faculty mobility and international academic exchange.



- **Dr. C. Rajasekharan**, Professor, has transitioned from Academic Research to take charge as the Director of the Library. *Wishing him great success in this new administrative role!!*



Patents filled

S. No	Title	Filed Date	Inventors	Application No	School /Center
1	A Sustainable Process For The Production And Characterization Of Polyhydroxyalkanoates And Phb Using Pseudobacillus Badius Vit Das1 And Jasmine Flower Hydrolysate	6.4.26	Dr. Dhanya.V,Alice Angel S,Sejal Shashikant Mali,	202641043552	SBST
2	Kaempferol Based Conjugate In Sida Cordifolia Targeting Cdc34 For Mitophagy Regulation.	6.4.26	Dr. Sudandiradoss C,Deborah Vincent,Ayush Bera	202641043581	SBST
3	Dashmool-Derived Diosgenin For Selective Pten-Long Inhibition And Mitophagy Restoration	6.4.26	Dr. Sudandiradoss C,Deborah Vincent	202641043582	SBST
4	Mucoadhesive Nanofiber Film And Process Of Preparation Thereof	17.4.26	Dr. Natarajan Chandrasekaran ,Dr. George Priya Doss C, Mohanraj Gopikrishnan	202611049233 (VIT & ICMR-filed through patent mitra)	CNBT, SBST
5	A Bio-Inspired Ultra-Swellable Polymer-Protein Hybrid Hydrogel And Method For Preparing The Same	29.4.26	Dr.Kanagavel Deepankumar ,Samson Prince H	202641054505	SBST
6	Ai-Based System And Method For Cross-Chemical Prediction And External Validation Of Oxidative Stress In Earthworms	30.4.26	Dr. W. Jabez Osborne ,Manas Manam ,Borra Sai Venkat	202641055417	SBST

Patents filled

S. No	Title	Filed Date	Inventors	Application No	School /Center
7	A Ph-Responsive Freshness Indicator Film And Method For Its Preparation Thereof	30.4.26	Dr.Kanagavel Deepankumar ,Raja Priyar	202641055092	SBST
8	A Structurally Reinforced Bio-Composite Film With Controlled Swelling RetardationAnd Optimized Functional Performance	30.4.26	Dr.Kanagavel Deepankumar,D r.Prakash M,Raja Priyar	202641054492	SBST
9	Carvone Compositions Targeting Skp2 For Breast Cancer Treatment	2.5.26	Dr. Sudandiradoss C,Manshi Kumari Gupta	202641056054	SBST
10	Therapeutic Composition Comprising Egcg And Mir-27A-3P Inhibitor For Cancer Treatment	2.5.26	Dr.Abul Kalam Azad Mandal,Sharany a K	202641056061	SBST
11	Trifluoromethylated Apigenin Derivative And Egfr Inhibitor Combination For Nsclc Treatment	2.5.26	Dr. Sudandiradoss C,Boobana Dharmalingam	202641056056	SBST
12	Nutrient-Fortified Cookie With Dietary Fiber And Calcium Oxide Nanoparticles From Dragon Fruit Peel	3.5.26	Dr. Payel Ghosh,Dr. Sandeep Singh Rana,Dr. Vipin Singh,Laxmika r thika V S	202641056122	SBST, HOT
13	Topical Cream Formulation Of Crocin-Loaded Water-In-Oil Emulsion For Skin Cancer Therapy	3.5.26	Dr. Siva Ramamoorthy, Dr. N. Chandrasekaran ,Ressin Varghese	202641056120	SBST, CNBT
14	Cobalt Oxide Nanoparticles From Cocos Nucifera Husk Extract	10.5.26	Dr. Devi Rajeswari V,Manosi Banerjee	202641059405	SBST

Patents filled

S. No	Title	Filed Date	Inventors	Application No	School /Center
15	Magnetosome-Conjugated Lemongrass Extract Ointment For Wound Healing	10.5.26	Dr. Suthindhiran K, Dr. Jayasri M. A, Andhere Animish Deepak Darshana	202641059399	SBST
16	Computational Method For Colorectal Cancer Target Discovery Using Garlic-Derived Exosome Phytochemicals	11.5.26	Dr. Abul Kalam Azad Mandal, Balaji P	202641059475	SBST
17	Extraction Of Calcium Carbonate From Eggshells Using Energy-Assisted Natural Deep Eutectic Solvents	11.5.26	Dr. Jeevitha G C, S Ghowsalya, Vishnu Priya A, Arya K, Saravanan R	202641059470	SBST
18	Integrated Experimental-Computational Method For Identifying Anti-Breast Cancer Phytochemicals From Broccoli	11.5.26	Dr. Abul Kalam Azad Mandal, Srishti Lingaraj Chandargi, Priya Dharshini L C	202641059468	SBST
19	Process For Preparation Of Spray-Dried Ghee Nano-Emulsion Powder	11.5.26	Dr. Jeevitha Gc, Santhosh U, Kamalraj R, Swetha V	202641059471	SBST
20	A Bigel-Based Cocoa Butter Substitute For Incorporation In Dark Chocolate And Method Of Preparing A Bigel-Based Cocoa Butter Substitute	12.5.26	Dr. Ramalingam C, Pavidharshini S	202641060142	SBST
21	A Fermentation Medium For Producing Nisin By Lactococcus Lactis And The Method For Preparing The Same	19.5.26	Dr. Sreeja S, Sahaya Shalmiya X	202641063484	SBST
22	Enhanced Production Of Nisin By Lactococcus Lactis Through The Application Of Shear Stress	19.5.26	Dr. Sreeja S, Joansweetlin S	202641063142	SBST

Patents filled

S. No	Title	Filed Date	Inventors	Application No	School /Center
23	A Foldable Service Trolley With Compartment System And Method Of Operating The Same	21.5.26	Dr. Vipin Singh,Dr. Pavel Ghosh,Ragul G,Rithwik Ramesh,Noorul Ameen G,Marimutu R	202641064010	HOT, SBST
24	Topical Hydrogel Composition Comprising Clitoria Ternatea Flower Extract	24.5.26	Dr.Rithvik A,Dr. M. Rasool,Vineetkumar Pillai	202641065356	SBST
25	Surface Enzyme Functionalized Polycaprolactone (Pcl) Microsphere With Enhanced Biodegradability For Sustained In Situ Oxygenation.	27.5.26	Dr. Sunita Nayak,Debarchan Panda	202641066836	SBST
26	Effective Biosorbent For Toxic Metal Removal From Fish Muscle Tissue	27.5.26	Dr.Rahul Vashishth,Gracy Anu K F,Sri Sneha J V	202641066853	SBST
27	Process For Genome-Guided Production And Extraction Of Indole Type Metabolites Using Streptomyces Species	29.5.26	Dr. J. Godwin Christopher,Veilumuthu P	202641067195	SBST
28	Method For Producing And Purifying Bioactive Isophytol Acetate With Antibacterial Activity From Endophytic Bacterium Vittdj1	29.5.26	Dr.W. Jabez Osborne ,Tinamoni Buragohain	202641067197	SBST
29	Biofilm-Penetrating Lung-Targeted Nanoemulsion System For Enhanced Pulmonary Antibiotic Delivery Against Multidrug-Resistant Infections	29.5.26	Dr.Natarajan Chandrasekaran, Dr. George Priya Doss C,Mohanraj Gopikrishnan,Ms . Hrithupriya M B	202641067216	CNBT, SBST

Patents filled

S. No	Title	Filed Date	Inventors	Application No	School /Center
30	Synergistic Herbal Nanoemulsion-Based Topical Cream For Enhanced Mosquito Repellent Activity	29.5.26	Dr.Natarajan Chandrasekaran, Dr. George Priya Doss C,Mohanraj Gopikrishnan,Bal amurugan Thangamari Vengatesh, Anna Sundar Sarmila	202641067217	CNBT, SBST
31	Genome-Guided Microbial Production Of Squalene Using Endophytic Streptomyces	31.5.26	Dr.J Godwin Christopher, P. Veilumuthu	202641068185	SBST
32	Anticancer Composition Comprising Egcg And Mir-21A-3P Inhibitor For Lung Cancer Treatment	31.5.26	Dr.Abul Kalam Azad Mandal,Sharanya K	202641068095	SBST
33	Microencapsulated Double-Emulsified Iron And Omega-3 Fortified Dessert Bar	31.5.26	Dr.Jeevitha Gc ,Lakshana Rh ,Swetha V	202641068100	SBST
34	“A Method For The Synthesis And Functionalization Of A Phytochemical Metal Oxide Nanocomposite”	31.5.26	Dr. Gothandam Kodiveri Muthukaliannan, Harini Ravi	202641068207	SBST

Patents Published

S. No	Title	Published Date	Inventors	Application No	School /Center
1	A Sustainable Process For The Production And Characterization Of Polyhydroxyalkanoates And Phb Using Pseudobacillus Badius Vit Das1 And Jasmine Flower Hydrolysate	17.4.26	Dr. Dhanya.V,Alice Angel S,Sejal Shashikant Mali,	202641043552	SBST
2	Kaempferol Based Conjugate In Sida Cordifolia Targeting Cdc34 For Mitophagy Regulation.	17.4.26	Dr. Sudandiradoss C,Deborah Vincent,Ayush Bera	202641043581	SBST
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18	A Fermentation Medium For Producing Nisin By Lactococcus Lactis And The Method For Preparing The Same	29.5.26	Dr. Sreeja S, Sahaya Shalmiya X	202641063484	SBST



JOURNAL PUBLICATIONS (RESEARCH PAPERS)

Research papers (March)

S.No	Author (s)	Title of the Article	Name of the Journal	Type of Collaboration	Impact Factor
1	Sishu N.K.; George S.; Selvaraj C.I.	Protective role of cichoriin and inulin against HFD-STZ-induced diabetic cardiomyopathy in mice via oxidative stress suppression and metabolic modulation	Free radical biology & medicine	VIT	8.2
2	Wang F.; George C.; Gobelin L.; Ursu A.V.; Ramesh P.; Palaniappan A.; Delattre C.	Development, characterization, and in vitro evaluation of TEMPO-oxidized microcellulose-based biomaterial inks for three-dimensional bioprinting	International Journal of Bioprinting	International	6
3	Gunasekaran Rajalakshmi S.; K R.B.; Viswanathan P.	Investigating gut microbiome dysbiosis in adults with chronic kidney disease: Diabetes-induced alterations via metagenomics and qPCR	Life Sciences	VIT	5.1
4	Khan Y.; Fatima R.; Ilma B.; Kalra J.M.; Maqbool M.; Ramalingam P.S.; Verma A.; Bansal N.; Ashique S.; Hussain M.S.	Ubiquitin-specific proteases in Atherosclerosis: Exploring novel therapeutic strategies beyond conventional approaches	European Journal of Pharmacology	International	4.7
5	Rangasamy K.; Saleh A.M.	Bacterial consortia enhance nutrient uptakes and molecular response in tomato seedlings under alkaline soil stress: a comparative study	Frontiers in Microbiology	National	4.5
6	Pattapulavar V.; Sanjai Kumar S.; Ramanujam S.; Subburaj S.; John G.C.	Probiotic-based therapeutics for a One Health future: redefining antibiotic dependency to combat antimicrobial resistance	Results in Surfaces and Interfaces	VIT	4.4
7	Ramesh K.; Sishu N.K.; Selvaraj C.I.; Ashwini T.R.; Raghavan V	Behavioral and biochemical response of Eisenia foetida to biochar/bentonite slow release nitrogen fertilizer beads	Bioresource Technology Reports	VIT	4.3

Research papers (March)

S.No	Author (s)	Title of the Article	Name of the Journal	Type of Collaboration	Impact Factor
8	Kalidass B.; Kodiveri Muthukaliannan G.	In Silico Profiling of Phytochemicals for Modulating Amyloid Beta-Mediated Immune Regulation and Neuroinflammation in Alzheimer's Disease	ACS Omega	VIT	4.3
9	Selvakumar A.; Chandran P.A.; Shraddha S.; Dharshini L.C.P.; Perumal S.; Karuppasamy R.; Mandal A.K.A.	Unveiling the potential of apigenin and kaempferol against colon cancer: an integrated network pharmacology and docking approach	Frontiers in Bioinformatics	VIT	3.9
10	Maneesha M.; Subathra Devi C.	Co-production of nattokinase and menaquinone-7 from Bacillus subtilis MM26: A strain isolated from fermented grape wine	Biocatalysis and Agricultural Biotechnology	VIT	3.9
11	Routh S.; Manickam V.	Integrated experimental and computational insights into the anti-inflammatory potential of flower-derived exosome-like nanoparticles targeting the NF- κ B pathway	Frontiers in Bioinformatics	VIT	3.9
12	Brahadeeswaran S.; Tamizhselvi R.	Proteomic mapping of Rosa damascena nanovesicles reveals plastid mitochondrial metabolic convergence and antimicrobial peptides	Plant Signaling and Behavior	VIT	3.6

Research papers (March)

S.No	Author (s)	Title of the Article	Name of the Journal	Type of Collaboration	Impact Factor
13	Suresh S.; Asha Devi S.; Mohamed Imran P.; Keerthana P.; Sambavi N.; Nawaz Khan F.R.	Dihydroquinolinone and Hexahydroacridinone Chalcones: Synthesis, Experimental, and Theoretical Investigations of Their Photophysical and Biological Activities	Chemistry - An Asian Journal	National	3.3
14	Lazarus H.P.S.; Mahendrarajan V.; Easwaran N.	Genomic insights into Exiguobacterium indicum VIT-2023: a dual-function PGPR with potential for plant health protection and plastic biodegradation	Environmental Pollutants and Bioavailability	VIT	3.2
15	Chakraborty I.; Shaw R.; Pal K.	A Comprehensive Analysis of Inflammation Regulatory Biomarkers among three Neuropsychiatric Disorders using Transcriptomic Approach	Neuroinformatics	VIT	3.1
16	Divya S.; Talwar P.; Ramanan P.	An integrated framework identified potent inhibitors targeting IRE1	Bioorganic & medicinal chemistry	National	3

Research papers (April)

S.No	Author (s)	Title of the Article	Name of the Journal	Type of Collaboration	Impact Factor
1	Selvasekaran P.; Chidambaram R.	Rational design of γ -carrageenan-xanthan gum hybrid hydrogel for application in compound chocolate: A structured hydrogel-assisted partial fat replacement approach	Food Hydrocolloids	National	12.4
2	Rengasamy M.; Gnanasekaran A.; Logeshwaran A.; Renold Elsen S.; Prasannan A.; Shih S.J.; Rajaram K	Effect of sintering temperature on the performance of Co_3O_4 -coated bentonite clay based interfacial solar evaporators: A sustainable solution for desalination	Results in Engineering	International	7.9
3	Ghosh S.; Bhuvanakantham R.; Sindhuja P.; Harishita P.B.; Mohan A.; Guly's B.; Muthu D.; Padmanabhan P	A Cloud-Aware Scalable Architecture for Distributed Edge-Enabled BCI Biosensor System	Biosensors	International	5.6
4	Rithvik A.; Bhattacharjee S.; Illanad G.H.; Kumar P.; Javed G.; Karwasra R.; Ahmed Z.; Rasool M.	Majoon Ushba alleviated IL-17A sensitized keratinocyte ferroptosis via JAK-2-STAT-3 signaling axis and reversed imiquimod induced psoriasiform inflammation	Pharmaceutical Biology	National	4.8

Research papers (April)

S.No	Author (s)	Title of the Article	Name of the Journal	Type of Collaboration	Impact Factor
5	Chakole V.R.; Srinivasan S.; Revathi S.; Ghatak T.; Sharma P.; Khan J.M.; Sen P.	N-Heterocyclic imine derived green Catalyst P2ML2 shows moderate binding with domain IB of human serum albumin	Journal of Molecular Structure	International	4.7
6	Manochkumar J.; Ramamoorthy S.	Salicylic acid effectively enhanced biomass and fucoxanthin accumulation in Isochrysis galbana: A cost-effective sustainable approach	Algal Research	VIT	4.5
7	Das S.; Mukhopadhyay S.; Chatterjee M.; Kar S.; Ojha P.K.	q-RASAR modeling of antibiotics microplastics mixtures: Towards predictive aquatic toxicology and resistance risk assessment	Aquatic Toxicology	International	4.3
8	Angalaparameshwari Elayarasan S.S.; Shankar V.	Development of an Anticancer Fungal Paclitaxel-Loaded Hydrogel System via 3D Bioprinting: A Next-Generation Biomedical Platform	ACS Omega	VIT	4.3
9	Gupta M.K.; Sudandiradoss C	Molecular Dynamics Simulation-Assisted siRNA Design for Dual-Ubiquitinated SKP2 Silencing via Ago2 Anchoring in Breast Cancer	ACS Omega	VIT	4.3
10	Sebastian P.M.; Bhaskara Rao K.V.	Bioremediation of Reactive Red 120 by Enterobacter cloacae VITPBS14: Integrated in vitro and in silico approaches	Results in Chemistry	VIT	4.2

Research papers (April)

S.No	Author (s)	Title of the Article	Name of the Journal	Type of Collaboration	Impact Factor
11	Jyothish K.; Roy S.; Sekar Ponnusamy C.; Gayathri K.B.; Vijay J.S.; Augustine T.	Machine learning approach to topological graph descriptors of graphene nanoribbons	Frontiers in Chemistry	VIT	4.2
12	Shaji A.; Jayasri M.A.	Liposomal co-delivery of resveratrol and laminarin mitigates high-fat diet-induced obesity through modulation of the AMPK/SIRT1/PPAR γ signaling axis	Journal of Functional Foods	VIT	4
13	K H.; Parikh V.; K P.S.; D S.; S R.V.I.	A framework for enhancing pharmaceutical integrity and patient safety: novel mobile health solution integrating smart packaging and computer vision	Scientific Reports	VIT	3.9
14	Venkatesan U.; Muniyan R.	Chitosan/pectin bio-composite films enriched with bioactive fraction of <i>Acalypha indica</i> L. as active packaging: a comparative assessment of postharvest fruit quality	Scientific Reports	VIT	3.9
15	Jansi Rani J.; Lawrence E.; Ghosh A.; Saha A.; Moorthy A.; Roy S.	Exploration of the Anticancer Efficacy and In Silico Drug Screening Study of Fe(II) and Fe(III) Complexes of Schiff Base and Phenanthroline Ligand	ChemMedChem	National	3.4
16	Siddique J.F.; Kumari G.R.S.; Kumar S.D.V.; Devi C.S.; Vaithilingam M.	p53 mediated cell cytotoxicity and DNA damage in lung cancer cell line A549 triggered by a small peptide extracted from a probiotic strain <i>Lactobacillus casei</i>	BMC Biotechnology	National	3.4

Research papers (April)

S.No	Author (s)	Title of the Article	Name of the Journal	Type of Collaboration	Impact Factor
17	Prasanna R.; Kundu D.; Mohanan M.; Vaithilingam M.; Chandrasekaran S.D.	Enhanced production of Nattokinase by <i>Bacillus aryabhattai</i> RP6 isolated from fermented <i>Brassica oleracea</i>	BMC Biotechnology	VIT	3.4
18	Kollannur A.M.; M G.	Nature's Power at Nanoscale: Isolation and Characterization of Exosome-like Nanovesicles from <i>Murraya koenigii</i>	Applied Biochemistry and Biotechnology	VIT	3.3
19	Sebastian P.M.; V S.S.; K.V B.R.	Biogenic Synthesis of ZnO Nanoparticles Using <i>Enterobacter cloacae</i> for Efficient Photocatalytic Degradation of Reactive Red 120	BioNanoScience	VIT	3.2
20	Mahapatra P.P.; Prakash M.A.S.; Muneer S.	Tomato crop resilience via grafting by improving the yield stability and nutritional quality under drought conditions	Frontiers in Sustainable Food Systems	National	3.1
21	Sree Agash S.G.; Chandrasekhar G.; Vinutha A.S.; Akshay S.; Kanishk P.; Rajasekaran R.	Computer-Based Design to Improve <i>Bacillus thuringiensis</i> Chitinase for Industrial Applications	Chemistry Open	VIT	3.1
22	Kannampuzha S.; Gopalakrishnan A.V.	UA mitigates cisplatin-induced toxicity suggesting involvement of the KEAP1/NRF2 pathway: insights from histopathological validation, molecular docking, and molecular dynamics	Naunyn-Schmiedeberg's Archives of Pharmacology	VIT	3.1

Research papers (May)

S.No	Author (s)	Title of the Article	Name of the Journal	Type of Collaboration	Impact Factor
1	Vignesh K.; Napoleon A.A.; Sarkar S.; Thirumurugan K.; Kumar A.S.	Anchored sorafenib on carbon black as a stable molecular redox electrocatalyst for thiol oxidation and point-of-care sensing in cancer cells	Journal of Colloid and Interface Science	VIT	9.7
2	Sujitha P.; Poornima K.G.; Shanthi C.	Biochemical and structural insights into dehairing proteases for efficient leather processing	Collagen and Leather	VIT	9.2
3	Parthiban H.; Elumalai Y.; Kothandam S.; Joseph S.; Varkey D.R.; Abraham J.; Swamiappan S.	Freeze-dried larnite-reinforced PVA/PCL/silk fibroin composite scaffolds: Biocompatibility and mechanical assessment for hard tissue repair	Journal of Materials Research and Technology	National	6.6
4	Bera S.; Lawrence E.; S K.; Sithaiyan V.; Sayyad U.S.; Mondal S.; Moorthy A.; Bhunia S.K.	Chiral and Bright Green Fluorescent MXene Quantum Dots as On/Off/On Nanoprobe for the Selective and Ultrasensitive Detection of Hypochlorite and Glutathione	ACS Applied Nano Materials	National	5.5
5	Nandhini G.; Shobana M.K.; Saravanan P.; Dasgupta T.; Venkatraman M.	NiFe ₂ O ₄ /Fe ₃ O ₄ nanocomposites: Promising In-vitro performance for hyperthermia applications	Materials Chemistry and Physics	National	4.7
6	Kannan N.; Chandrasekaran N.	Encapsulated essential oil-based nanoemulsion beads: a green innovation for storage pest control against Tribolium castaneum	RSC Advances	VIT	4.6

Research papers (May)

S.No	Author (s)	Title of the Article	Name of the Journal	Type of Collaboration	Impact Factor
7	Mahendrarajan V.; Easwaran N.	Lactobacillus acidophilus membrane vesicles demonstrate antimicrobial and antibiofilm activity against Streptococcus mutans?an in vitro and in vivo study	Artificial Cells, Nanomedicine and Biotechnology	VIT	4.5
8	Pattapulavar V.; Shah M.; Bell I P.J.; Ramanujam S.; Subburaj S.; Arumugam S.; Muniyan R.; Christopher J.G.	Genome-guided discovery and computational prioritization of next generation drug development from Streptomyces sp. VITGV156 (MCC 4965)	Frontiers in Microbiology	National	4.5
9	Vishal M.; Aravindraj K.; Roopan S.M.; Sharmila A.; Selvaraj C.I.; Prakash S.H.; Anbu K.S.D.	CdWO ₄ /g-C ₃ N ₅ Heterostructures: Synthesis and Enhanced Photocatalytic Degradation of Methyl Violet	Topics in Catalysis	VIT	3
10	Das S.; Rajeswari V D.	Integrative network pharmacology and molecular simulations reveal the Anti-DKD potential of Pedalium murex phytocompounds via TNF- α and NF- κ B inhibition	Journal of Molecular Graphics and Modelling	VIT	3



JOURNAL PUBLICATIONS (REVIEW ARTICLES)

Review articles (March)

S.No	Author (s)	Title of the Article	Name of the Journal	Type of Collaboration	Impact Factor
1	Gunasekaran H.; Rajkumar S.; Lincy Kirubhadharsini B.	Lightweight deep learning for tomato disease detection: trends, challenges, and edge AI perspectives	Frontiers in Plant Science	VIT	4.8
2	Buragohain T.; Osborne W.J.; Deepankumar K.	Small molecules of endophytic bacteria and fungi as a treasure to combat against microbial pathogens: A step towards next-generation drugs	Bioresource Technology Reports	VIT	4.3
3	Kulandaivelu R.K.; Roy A.; Roy S.; Amith Velavan J.S.; Amudala R.; Das Adhikari D.J.; S V K.; Ramaiah S.; Anbarasu A.	A comprehensive review of resistome profiles in ocular pathogens: Insights into Pseudomonas aeruginosa and emerging resistance trends	Journal of infection and public health	VIT	4
4	Shyam M.; Amrutha M.; Kommoju N.; Joshi R.V.; Srirangan P.; Radhakrishnan V.; Vashishth R.; Evan Prince S.	Molecular insights into doxorubicin induced cardiotoxicity and phytochemical-based cardioprotection: challenges and future strategies	Drug Metabolism Reviews	VIT	3.8
5	Ansar Z.A.; Alappat M.M.; Subramanian S.; Anbarasu A.	Microbial and multi-omics approaches for bioremediation of emerging contaminants: environmental impact and future engineering solutions	Biodegradation	VIT	3.2
6	Jagadesh P.; Sridharan T.B.	Environmental determinants of male infertility: emerging threats and technological interventions	Frontiers in Medicine	VIT	3

Review articles (April)

S.No	Author (s)	Title of the Article	Name of the Journal	Type of Collaboration	Impact Factor
1	Dixit S.S.; Moorthy G., I	Pectin in precision medicine for targeted delivery, gene therapy, and cancer immunomodulation: A review	International Journal of Biological Macromolecule	VIT	8.5
2	Varghese R.; Efferth T.; Ramamoorthy S.	Appraisal of the pleiotropic signaling effects of phytopigments in glioma therapy: an evidence-based mechanistic overview	Phytochemistry Reviews	International	7.6
3	Shyam M.; Oveyaa B.M.; Kumari R.; Wadhwa J.; Srirangan P.; Prince S.E	Phytochemicals in mosquito management: advances in herbal repellents and their future potential	Phytochemistry Reviews	National	7.6
4	Beena M.; Udduttula A.; Palaniappan A.	Quercetin-Based Advanced Delivery Systems?From Multimodal Nanotheranostics to Microneedles: a Recent Update on Their Preclinical Studies	International Journal of Nanomedicine	International	6.5
5	Ramalingam P.S.; Afzal M.; Rekha M.M.; Sahoo S.; Pandey S.N.; Maji C.; Goyal K.; Ali H.; Singh S.K.; Gupta G.; Hussain M.S.; Mekala J.R.; Arumugam S.	Transforming growth factor- β and integrins: key players in EMT and breast cancer progression	Cancer Cell International	International	6
6	Jeyakumar S.S.; Vashishth R.	Next-generation adsorbents for heavy metal removal: organic, inorganic, and hybrid materials	Environmental Sciences Europe	VIT	6

Review articles (April)

S.No	Author (s)	Title of the Article	Name of the Journal	Type of Collaboration	Impact Factor
7	P. S F.; Suthindhiran K.	Pathobiology of ESKAPE Biofilms in implant infections: current understanding and implications for future therapeutic strategie	Frontiers in Cellular and Infection Microbiology	VIT	4.8
8	Nanavaty A.; Kaushik V.; Hema Prasanth E.; Ruhai R.; Kataria R	Prospects of biopolyester production from extremophiles using sustainable feedstocks	Bioresource Technology Reports	VIT	4.3
9	Balgote P.J.; Nowshad F.; Patnaik A.; Sivaraman J.	Decoding the significance of TERT gene in Polycystic Ovary Syndrome: From molecular mechanisms to emerging diagnostic and therapeutic strategies	Journal of ovarian research	VIT	4.2
10	Sriram S.; Krishnakumar P.; Sudandiradoss C.	E3 ubiquitin ligases: structural diversity, dysregulation in disease, and their emerging role in targeted therapeutic strategies	Frontiers in Molecular Biosciences	VIT	4
11	Rajalakshmi S.G.; Rai C.E.; Moorthy M.K.; Abirami S.V.; Viswanathan P.	Millet-based dietary intervention modulates gut microbiota and inflammatory signalling to support glycemic control and healthy ageing	Discover Food	VIT	3.7
12	Halder A.; Das U.; Chengaiyan J.G.; Balaji M.	Green extraction techniques and advanced coating technologies for development of edible film valorizing fruit and vegetables peels	Journal of Food Science and Technology	VIT	3.3

Review articles (April)

S.No	Author (s)	Title of the Article	Name of the Journal	Type of Collaboration	Impact Factor
13	Shaji S.M.; Pachamuthu K.	MicroRNA-mediated regulation of nitrate signaling in crop plants: a focus on rice	Physiology and Molecular Biology of Plants	VIT	3.3
14	Shanmugam J.S.; Doss S.S.	Innovations in process engineering approaches for enhanced bacteriocin production	Journal of Industrial Microbiology and Biotechnology	VIT	3.2
15	Mathkor D.M.; Aldairi A.F.; Faidah H.; Babalgith A.O.; Johargy A.K.; Ahmad F.; Haque S.; Bantun F.	The role of breastfeeding in modulating antimicrobial resistance in neonates: a systematic review	Pediatric Research	International	3.1
16	Chhachhiya N.; Mishra M.; Celin S.M.; Mishra V.; Bose D.B.; Kumar A.	Analysis of enzyme-based bioremediation approach in the degradation of high energy materials (HEMs) for environmental restoration	Environmental Monitoring and Assessment	National	3
17	Francis G.A.; Ray S.; Mukherjee A.G.; Gopalakrishnan A.V.; Vashishth R.	Harmful algal blooms in a changing world: linking bloom dynamics, biotoxin synthesis, and advanced monitoring strategies	Environmental Monitoring and Assessment	National	3

Review articles (May)

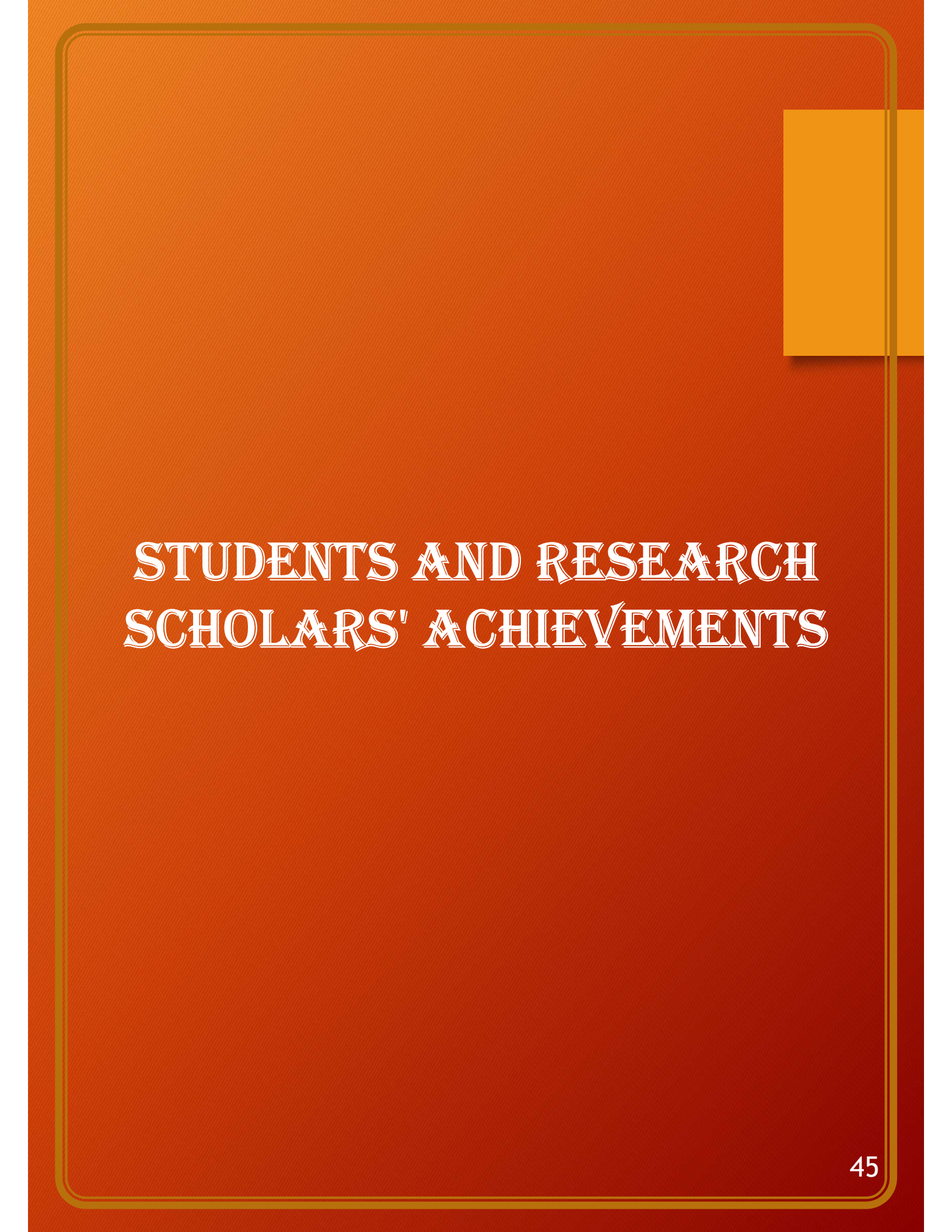
S.No	Author (s)	Title of the Article	Name of the Journal	Type of Collaboration	Impact Factor
1	Urvi M.; Osborne W.J.	Comprehensive review on deciphering the biodegradation of nitramine explosives RDX and HMX: An insight on the mechanisms, pathways and environmental implication	Journal of Hazardous Materials Advances	VIT	7.7
2	Rajasekhar S.; Subramanian S.	Effects of microplastics and pollutants from agriculture activities, pharmaceuticals and personal care products adsorption and toxicity	Journal of Hazardous Materials Advances	VIT	7.7
3	Parikh A.; Cholavaram A.; Chitti Babu A.K.; Deepankumar K.; Vijayan M.	Role of voltage-dependent anion channel 1 in neurodegeneration: Mechanisms, implications, and therapeutic potential	Neural Regeneration Research	International	6.7
4	Selvan S.A.; Dubey N.; Pal T.	Annona muricata Leaf Extract as a Plant Based Bio-Preservative: Mechanisms, Synergy, and Translational Applications in Food Systems	Food Reviews International	National	6
5	Ramalingam P.S.; Hussain M.S.; Khan Y.; Maqbool M.; Agrawal M.; Dh H.S.; Prabhu A.; Ashique S.; Kalra J.M.; Kalra K.; Balakrishnan P.; Arumugam S.	Macrophage-derived long non-coding RNAs in cancer: pioneering targets for immune modulation and personalized therapy	Frontiers in immunology	International	5.9

Review articles (May)

S.No	Author (s)	Title of the Article	Name of the Journal	Type of Collaboration	Impact Factor
6	Morey M.G.; Illanad G.H.; Rasool M.	An intricate relationship between fibrosis and autoimmune diseases: a specific focus on unraveling its molecular, immunological, and epigenetic driver	Frontiers in immunology	VIT	5.9
7	Chakraborty S.; V D.R.	Cell-mediated immune responses of beta glucan on the pathogenesis of chronic tuberculosis infection	Frontiers in immunology	VIT	5.9
8	Boyapati T.; Priyadharshini G.M.S.; Muthukumarappan K.; Ghosh P.	Recent Developments in Bioseparation for Food Processing: Principles, Technologies, and Sustainable Applications	Food and Bioprocess Technology	International	5.8
9	Priya Dharshini L.C.; Gaiaamova E.; Serreau R.; Garcion E.; Morisset-Lopez S.; Baril P.	Locoregional Delivery of miRNAs for Glioblastoma Treatment: A Systematic Review of Advances in Delivery Systems	Pharmaceutics	International	5.5
10	Annamalai C.; Viswanathan P	Iron Biology in Acute Kidney Injury: Catalytic Iron, Hpcidin?Ferroportin Axis, and NGALA Narrative Review	International Journal of Molecular Sciences	VIT	4.9

Review articles (May)

S.No	Author (s)	Title of the Article	Name of the Journal	Type of Collaboration	Impact Factor
11	Kumarasamy N.; Balakrishnan B.	Exploring gene editing as a potential therapeutic strategy for hemophilia	Frontiers in Bioengineering and Biotechnology	VIT	4.8
12	Subramani T.; George E.A.; Saju A.E.; E M.; De R.; K S.A.; Ramaiah S.; Anbarasu A	Biofilm-associated antibiotic tolerance in the era of multidrug resistance: quorum sensing mechanisms and emerging therapeutic strategies	Frontiers in cellular and infection microbiology	VIT	4.8
13	Viswan A.; Augustine N	Insect Gut Microbiota as a Reservoir of Industrially Relevant Enzymes: A Comprehensive Review	Microbial Ecology	VIT	4
14	Das S.; Rao K.V.B.	The role of microbial biosurfactants in enhancing wound repair: a comprehensive review	Folia Microbiologica	VIT	3.1



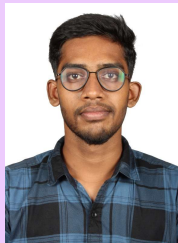
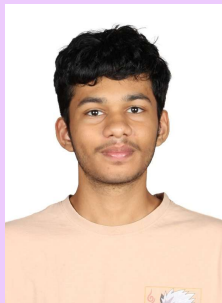
STUDENTS AND RESEARCH SCHOLARS' ACHIEVEMENTS

Students' Achievements

International Academic Achievements

Student(s)		Achievement
Anisha Judith (2023–25 Phyto Batch),		Selected to pursue Ph.D. studies in France with prestigious Government of France-funded fellowships.
Varsha Gowri (2024–26 AI Batch)		Anisha Judith and Varsha Gowri : Eiffel International Scholarship (Campus France)
Ganga Girish (2023–25 Phyto Batch)		Ganga Girish : INTERREG Réunion Fellowship.

National Academic Achievements

Student/Team		Achievement
Team Foresight Mohammed Kaif K (23MIS0258),		
Deepak Kumar D (23MIS0247),		Top Team at the RedShield National Hackathon, Mohamed Sathak A. J. College of Engineering, Chennai Award: <i>A 90-day paid internship with Cyt nexus.</i>
Gowsik V (23MIS0303),		
Gowtham G (23MIS0520)		
Shivansh Choukse (24MIS0266)		Achieved an Adjudicator Break at Manzar 2026 , the British Parliamentary Debating Tournament , adjudicating the Novice Semifinals, Open Pre-Quarterfinals, and Open Semifinals.

Students' Achievements

Congratulations to **Biza Ann Mathew** , **Krishna Roy**, **Arpita Kundu**, **Dayita Pal**, and **Kusal Ganguly** on securing **First Prize** in the **Gene to Product Hackathon**. Their innovative solution, teamwork, and scientific excellence reflect SBST's commitment to fostering creativity, entrepreneurship, and translational research.



Research Scholar achievements

PhD Scholars – Student Achievements

S. No.	Student(s)	Achievement
1	Elizabeth Annie George (24PHD0013) & Romita Guchhait (24PHD0143)	Awarded Second and Third Prize, respectively, at Bioradiance 2026, Pushpagiri Institute of Medical Sciences and Research Centre, Kerala, under the guidance of Dr. Sudha Ramaiah.
2	Prateek Nayak (23PHD0585)	Awarded the Best Poster Award at AILife 2026, SASTRA University, Thanjavur, under the guidance of Dr. Kuntal Pal.
3	Varshni Premnath (23PHD0679) & Vijayavidhya M (24PDD0014)	Awarded the Best Paper Award at ICFIBT 2026, St. Joseph's College of Engineering, Chennai, under the guidance of Dr. Shanthi V.



Research Scholar achievements

PhD Scholars – Student Achievements

4	Finola Priyadharshini C (20PHD0937) & Indranil Banerjee (24PHD0327)	Three abstracts accepted for presentation at the 34th ISTH Congress 2026, Paris, France, under the guidance of Dr. Everette Remington Nelson.
5	Samson Prince H (23PHD0351) & K. Vishnu (Project Staff)	Awarded the Best Oral Presentation Award at the EV-Based Liquid Biopsy Workshop, AHERF, Hyderabad, under the guidance of Dr. Deepankumar K.
6	Nithyashree JK (22PHD0004)	Awarded the First (Gold) Prize (₹50,000 cash prize) at the National Level Competitive Exhibition on Sustainable Technologies (NCLEST 2026), Pondicherry University, under the guidance of Dr. Sangeetha S.



Completed Doctoral degree

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.	Name	Supervisor
1	SANDRA KANNAMPUZHA	Dr. ABILASH V.G
2	SHAMALA V	Dr. ASHA DEVI S
3	SUVITHA A	Dr. ANAND A
4	ARJITA GHOSH	Dr. ANBALAGAN M
5	GURIA SAHA	Dr. CHANDRA SEKARAN N
6	ANDHERE ANIMESH DEEPAK DARSHANA	Dr. JAYASRI M.A
7	ROHIN SHYAM	Dr. ARUNKUMAR PALANIAPPAN
8	RESHMA MURALI	Dr. ABILASH V.G
9	SUJITHA PARTHIBAN	Dr. SHANTHI C
10	SAHELI SUR	Dr. MYTHILI S
11	SARANYA G R	Dr. PRAGASAM V
12	JAIN MARIA STEPHEN	Dr. ARABI MOHAMMED SALEH M.A.
13	SHIVANI T M	Dr. MYTHILI S
14	VINUTHA A S	Dr. RAJASEKARAN R
15	MAHALAKSHMI K	Dr. JOHN THOMAS
16	ANGELIN J	Dr. KAVITHA M
17	SHARMILA A	Dr. IMMANUEL SELVARAJ C
18	SREELAKSHMI NAIR R	Dr. C. SUBATHRADEVI
19	LOKESHWARI N	Dr. ANNIE JENNIFER M
20	PRIYANKA SINGH	Dr. JAYARAMAN G
21	ADHISH MAZUMDER	Dr. MANJUBALA I
22	VERNITA PRIYA	Dr. SUDHAKARAN R
23	DIVYA. K	Dr. JAYANTHI A
24	YAMINI V	Dr. DEVI RAJESWARI V
25	KUMARI MADHU MOHAN SUNITA JHA	Dr. MRUDULA P
26	KARISHMA SAHOO	Dr. VINO S
27	JENEESHA GEORGE	Dr. ASIT RANJAN GHOSH
28	ABILASH	Dr. T B SRIDHARAN
29	HEMANANDINI R K	Dr. RAMANATHAN K
30	PREETHI A R	Dr. ANAND A
31	LOKNATH DEO	Dr. LINCY KIRUBHADHARSINI B
32	PRIYANKGA PARANTHAMAN	Dr. SHANTHI V
33	KARTHIKEYAN R	Dr. VIMALA R
34	SUGASHINI S	Dr. SATHIAVELU A
35	TOSHIKA MISHRA	Dr. SUNEETHA V
36	MANOJ S	Dr. KALAIVANI T
37	SHRIDHAR SHRISHAIL HIEMATH	Dr. PRAGASAM V
38	PRITAM PARAMGURU	Dr. SOWBIYA MUNEER
39	C. DEVARAJAN	Dr. RAJASEKARAN C
40	RESSIN VARGHESE	Dr. SIVA R
41	NAGARATHINAM K	Dr. CHANDRA SEKARAN N
42	MANISHKUMAR A T	Dr. SUDHAKARAN R
43	NAYAN KUMAR SISHU	Dr. IMMANUEL SELVARAJ C
44	SATHVIKA K	Dr. SUNEETHA V

GUEST LECTURES

Research and Developmental Series

Title

AI-Assisted Research Writing: From Idea to Submission

Speaker

Dr. Siddarth Raajasekar, Ph.D., Assistant Professor,
Department of Biotechnology, Kalaignar Karunanidhi
Institute of Technology, Coimbatore, Tamil Nadu, India.

Organizer

The session was organized by **Dr. Sreeja S** and **Dr. Everettte Jacon RN**.

Date

27 May 2026



Alumni Guest Lecture

S.No	Name of the guest	Topic	Organizers	Date
1	Ms. Debatri chatterjee, Global product manager, Eurofins DiscocerX, San Francisco Bay Area, United states	"The innovation pipeline of Biotechnology from bench to a blockbuster product"	Dr. Vino sundararajan, Deputy Director, Alumni affairs, VIT	April 13, 2026
2	Ms. Apeksha supekar, Senior Genetic counselor, Indus Health plus city, Pune	"Introduction to prenatal genetics and predictive testing"	Dr. Radha saraswathy	April 11, 2026
3	Ms Nishita Biswal, Associate scientist, INTAS Pharmaceuticals Ltd, Ahmedabad	"Characterization of 'Biosimilars' through lens of analytical similarities"	Dr.R. Rajasekaran, Dr. C. Sudandira doss	April 11, 2026
4	Dr. Muhil vaannan seralathan, Managing Director, PAR life science and Research Pvt Ltd	"Metagenomics in Biotechnology: Unlocking the hidden potential of microbial communities"	Dr, W.Jabesosborne, Dr. E.P.Sabina	April 09, 2026
5	Dr. Akansha agarwal, Founder, Agromorph Technosolutions Pvt Ltd, Navi Mumbai	"Phycoremediation: Mechanisms and practical applications in pollution control"	Dr.W. Jabez osborne, Dr. Rahul vashishth	April 08, 2026
6	Dr. G Chandrasekhar, Senior Bioinformatics scientist, Life science concept operations, ACS, International India Pvt Ltd, Pune	"Recent developments in computational approaches to molecular design"	Dr. R. Rajasekaran, Dr. C. Sudandiradoss	April 06, 2026
7	Dr Hithesh kumar, Computational Biologist, Jivanu therapeutics Pvt Ltd, Bellary Road, Bengaluru	"The second brain: Deciphering health through gut microbiome genomic profiling"	Dr. Sudha Ramaiah	April 02, 2026

National and International Guest Lecture

S.No	Name of the guest	Topic	Organizers	Date
1	Mrs. Alka chauhan, Manager, Regulatory affair, Amway India Enterprises Pvt Ltd, Gurugram-122001, Haryana, India	"Regulatory intricacies of New product development:Industry PoV"	Dr. Rahul vashishth	April 17, 2026

8th Module Guest lecture

S.No	Name of the guest	Topic	Organizers	Date
1	Dr. Kesavan markkandan, CEO & Co-founder, Oneomics, Tiruchirapalli	"Next generation sequencing: Revolutionizing modern genomics"	Dr. S. AshaDevi & Dr. R. Sudesh	April 16, 2026
2	Dr. A. Sankaranayanan, Professor, Dept. of life sciences, GSFC University, Surat, Gujarat	"Microbiome - Host Interactions in Aquaculture: A cell Biology perspective on Probiotic function and health"	Dr. Anand Pre Rajan	April 16, 2026
3	Dr. Dhayanath N, Associate Toxicologist/Microbiolo gist, DIQC Lifesciences Pvt Ltd, Chennai	"Medical device safety concerns: Regulatory standards, evaluation and compliance"	Dr. Rameshkumar Santhanam, Dr. Babu Gajendran	April 16, 2026
4	Dr. Kesavan markkandan, CEO & Co-founder, Oneomics, Tiruchirapalli	"Cracking the code factor: Innovations in next generation sequencing technologies"	Dr. Kanagavel Deepankumar	April 15, 2026

8th Module Guest lecture

S.No	Name of the guest	Topic	Organizers	Date
5	Mr. Sumeet Popli, Founder & CEO, BiOME sustainability ventures, Hyderabad, India	From practitioner to founder: Engineering agricultural residues into high-performance building systems	Dr. Rashmi kataria, Dr. Rohit	April 15, 2026
6	Dr. Dayananda Chandrappa, Founder Director, E2E Biotechnology Pvt. Ltd, Bangalore	"Designing the future: Microbial cells as Biofactories"	Dr. C. Rajasekaran	April 11, 2026
7	Dr. Dayananda Chandrappa, Founder Director, E2E Biotechnology Pvt. Ltd, Bangalore	"Industrial Biochemistry: A brief discussion"	Dr. T. Kalaivani	April 10, 2026
8	Mr. Abhilash Anuganti, Functional consulting Team leader, EPAM systems, Hyderabad, Sri Ram kalyana parnandi, Quality consultant, Regeneron Pharmaceuticals, USA	"From microbial experiments to risk-based quality: How scientists think in regulated industries"	Dr. V. Mohanasrinivasa n, Dr. C. Subathra Devi	April 09, 2026
9	Dr. Boudhayan Bandyopadhyay, Associate prof, Dept. of Biotechnology, Admas university, Kolkata, India	"Investigating correlation between Biophysical parameters and substrate specificity of GroEL-ES chaperonin system"	Dr. Kuntal pal, Dr. Rahul shaw	April 08, 2026

8th Module Guest lecture

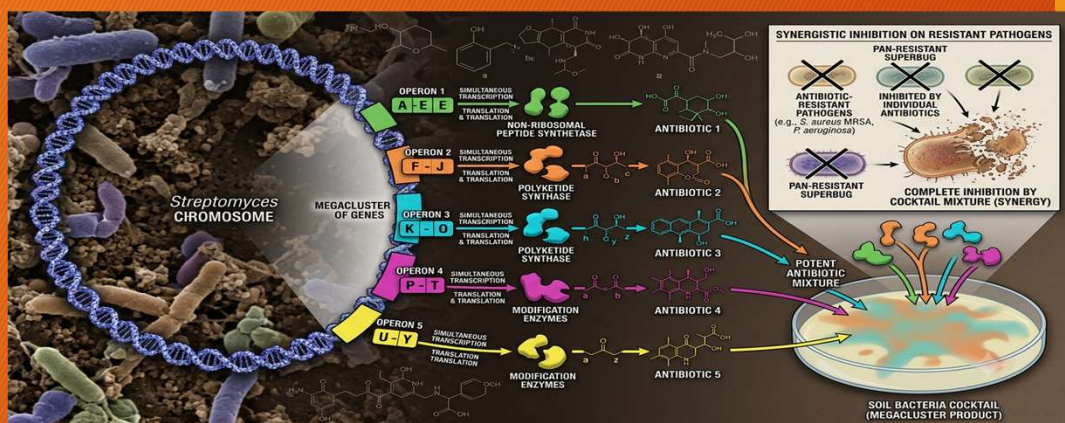
S.No	Name of the guest	Topic	Organizers	Date
10	Dr. Manohar kodavati, Instructor in Nuerosurgery, Houston methodist research institute, Texas, USA	"Genomic instability, Biochemical changes in Neurological diseases"	Dr. M. Janaki Ramaiah	April 08, 2026
11	Dr. Naveen kumar venkatesan, Founder and CEO, ImmuGenix Biosciences Pvt Ltd, Chennai	"CRISPR gene editing and its industrial applications"	Dr. Subathra Devi, Dr. V. Mohanasrinivasa n	April 06, 2026
12	Dr. Banani Kundu, Assistant prof, Dept of Biotechnology, School of Life science and Biotechnology, Adamas University, West Bengal, India	"Nanoscale MOFs: From synthesis to applications"	Dr. Sunita Nayak	April 02, 2026

6th Module Guest lecture

S.No	Name of the guest	Topic	Organizers	Date
1	Dr. Vivekanandan Perumal, Professor and Head, Kusuma School of Biological sciences, IIT, New Delhi - 110016	"Trend in infectious diseases and vaccine development"	Dr. Nalini E	April 13, 2026
2	Dr. Ramya Devi Durai, Senior Asst Prof, School of Chemical and Biotechnology, SASTRA deemed university, Thanjavur	"Hybrid Nanoparticle-based drug delivery approaches"	Dr. Nalini E	April 10, 2026

Students' Corner

Decoding Bacterial Gene Clusters for Novel Antibiotic Discovery



The rapid rise of antimicrobial resistance (AMR) is one of the most pressing global health challenges, threatening to undermine decades of medical progress. As conventional antibiotics continue to lose their effectiveness, the search for novel antimicrobial compounds has become increasingly urgent. In a recent breakthrough published in *Nature*, researchers uncovered an extraordinary megacuster of bacterial genes capable of producing four distinct families of antibiotics, including an entirely new compound and another whose antibiotic activity had never been recognized before. Unlike traditional antibiotic discovery, which often focuses on identifying single bioactive molecules, this study reveals that bacteria can organize multiple antibiotic-producing pathways within a single genomic region. Remarkably, these compounds function synergistically by targeting different aspects of “biotin (vitamin B7) metabolism”, an essential pathway for bacterial growth and survival. By simultaneously disrupting biotin synthesis, uptake, and utilization, the antibiotic cocktail overwhelms pathogenic bacteria through a coordinated "multi-pronged attack," reducing the likelihood of resistance development.

This discovery represents more than the identification of new antibiotics—it introduces a new paradigm for antimicrobial research. Rather than searching for isolated molecules, scientists can now explore genomic "treasure troves" containing clusters of genes that encode complementary antimicrobial compounds. Advances in genome mining, metagenomics, and artificial intelligence are expected to accelerate the discovery of such hidden biosynthetic pathways from environmental microorganisms.

For microbiologists, biotechnologists, and pharmaceutical researchers, this finding underscores the immense untapped potential of microbial diversity. As antibiotic resistance continues to evolve, innovative strategies inspired by nature's own defense systems may prove instrumental in developing the next generation of therapeutics. The study reinforces a timeless lesson in science: some of the most powerful solutions to humanity's greatest challenges are already encoded within the microbial world—waiting to be discovered.

Source: Steve T. Rutherford (2026), ‘Megacuster’ of genes enables bacteria to make potent antibiotic mixture, *Nature* 655, 307-308.

Toshika Mishra (21PHD0218)

Significant Events

US Visit May 2026

Prof. Dr. Suneetha Vuppu, Dean SBST visited United States and participated in international conferences and discussing potential scientific collaborations. The visit provided a valuable platform to disseminate research findings, engage with leading researchers and academicians, and explore emerging trends in the field. Participation in international conferences facilitated scholarly discussions, knowledge exchange, and collaborative meetings for potential research partnerships and opened avenues for future joint projects.



FOOD AS MEDICINE
May 5-6, 2026
Chicago, IL

Next Up: Food as Medicine Policy & Research Summit, Oct. 20-21
[VISIT WEBSITE](#)

Food as Medicine: From Promise to Implementation to Scalable Impact
Nutritional Security • Medically Tailored Meals • Produce Prescriptions • Evidence-Based Diets

MOMENTUM	MEETING POINT	OUTCOMES
The momentum of the Food as Medicine movement shows no signs of slowing down. Despite a changing political landscape, Food as Medicine remains one of the most talked about areas in all of health, food, and nutrition. But interest alone isn't enough. As an industry, it is essential that we come together to capitalize on this momentum.	The Food as Medicine Summit has served as the meeting point of the industry for the past five years and will once again host the defining conversations and interactions of the field. With all the key thought-leaders, implementers, and innovators present, the 6th annual Food as Medicine Summit will once again help define and advance the industry.	Through industry-shaping panels, case study presentations, and high-quality networking opportunities, this year's summit is dedicated to providing actionable takeaways for all those involved. Having discussions about Food as Medicine is one thing, but the 6th annual Food as Medicine Summit will deliver real outcomes and progress for all.

Foreign Faculty Visit









Faculty Interaction



Staff Interaction





Upcoming Events

"Tentative events prior to approval"

VIT Bio- Expo



Voice of Biotechnology





6 DAYS HYBRID WORKSHOP ON WATER SECURITY AND ENVIRONMENTAL SUSTAINABILITY FOR NEXT GENERATIONS

24-09-2026 to 29-09-2026

Organized by

CENTRE FOR TRAINING AND LEARNING, NIT Warangal
(Established under the PMMMNMTT Scheme, Ministry of Education, Govt. of India)



in association with
VELLORE INSTITUTE OF TECHNOLOGY, VELLORE
and
INDIAN INSTITUTE OF TECHNOLOGY MADRAS



Preamble:

The Centre for Training and Learning (CTL) has been established at NIT Warangal with grants from the Ministry of Education, through its scheme "Pursat Madan Mohan Malaviya National Mission on Teachers and Teaching (PMMNMTT)". Under this Scheme, a separate building has been built exclusively for the CTL activities, with the state-of-art training facilities that include a studio for production and uploading of video and e-lectures on various subjects of higher education, training halls to train the faculty in various thematic areas of Science and Technology, humanities and social sciences, linguistics and communication skills, pedagogy and cognition evaluation, etc. among others. One of the important objectives of the Centre is to conduct training programmes for the aspiring, newly inducted and in-service faculty in science, engineering, social sciences disciplines in higher education. Other activities of the CTL include preparation of print and e-learning materials, offering on-line courses, curriculum design, carrying out research in educational technology and pedagogy and integrating with ICT into teaching-learning process. The CTL has special programmes of training for the marginalized and women faculty.

About Workshop:

This workshop is devoted to addressing the critical management, preservation, and innovative technologies required to ensure global water security and environmental sustainability. It represents both the urgency and the strategic planning necessary for safeguarding natural resources for the next generations. The importance of this program lies in its focus on mitigating water scarcity, promoting ecological resilience, and fostering a circular economy as essential pillars for a sustainable and thriving society. The 6-days hybrid workshop involves 3 days of onsite sessions and 3 days of online sessions. The curriculum is curated and handled by a distinguished panel of academicians and industry experts, bridging the gap between theoretical research and real-world environmental applications.

Major Course Contents:

- Introduction to Water Security: Global water cycle dynamics, scarcity challenges, and the framework for environmental sustainability.
- Impact of Climate Change on Water Resources: Hydrological shifts, risk assessment, and mitigation strategies for next-generation ecosystems.
- Integrated Water Resources Management (IWRM): Sustainable governance, water policy, and the socio-economic value of water.
- Sustainable Infrastructure: Smart water grids, wastewater treatment technologies, and Nature-Based Solutions (NBS).
- Desalination and Resource Recovery: Advanced membrane technologies, water reclamation, and zero-liquid discharge systems.
- Modeling and Optimization: Application of meta-heuristic techniques and AI in water distribution networks and watershed management.
- Strategic Planning: GIS and Remote Sensing for identifying optimal locations for rainwater harvesting and aquifer recharge.
- Future Frontiers: Emerging contaminants (microplastics/PPAs), circular water economy, and innovations in climate-resilient architecture.

Faculty conducting this Programme:

The programme will be conducted by the faculty members from NIT Warangal and Academicians in the concerned field from renowned institutes like IITs/NITs/IIITs. ICMR have been invited to deliver lectures in the programme.

Registration Fee Particulars:

	Registration fee
Faculty	Rs. 1416/-
Students Research Scholars	Rs. 788/-
Industry Participants	Rs. 2260/-

Registration fees include GST. Participants need to pay the registration fees online using the following details.

Online Transfer Details
Account Name: **KEAD, CTL NITW**
Account No: **40376545007**
IFSC: **SBIIN0020149**
Bank and Branch: **SBI, NIT (REC) Warangal**

How to apply:

Participants are required to fill the online registration form by clicking on the following link:

Selection criteria:

Selection will be done based on first-come-first-serve to a minimum number of 50 (fifty) Faculty/industry participants. Additionally, students/PhD scholars are allowed to participate. The list of selected participants will be intimated through e-mail. In case the candidate is not selected, the registration amount will be refunded. Candidates will be issued certificates on successful completion of the workshop.

Important dates:

Last date (Application & ID)	21-09-2026
Selection confirmation	23-09-2026

About NIT Warangal:

National Institute of Technology Warangal, formerly known as Regional Engineering College was established in 1959. Over the years it has developed into a premier institute of higher learning and is ranked among the top technical education institutions in India. There are 14 Departments offering eight undergraduate and 31 post graduate programs besides doctoral programmes. About 5000 students across the country and about 500 international students study on the campus. It is a fully residential campus sprawling over 250 acres with excellent infrastructure in the form of state of the art library, seminar halls, guest houses and research laboratories.

About VIT Vellore:

Vellore Institute of Technology, formerly known as Vellore Engineering College was established in 1984 by Dr. G. Viswanathan. It has evolved into a premier recognized institution, consistently ranked by the NIRF among India's top technical and research universities. VIT offers over 70 undergraduate, 50+ post graduate and more than 10 integrated programs in the fields of engineering, science, business, law, design, and humanities. The institute is organized into around 15 specialized schools like SRIST (Bio-science), SCOPE (Computer Science), SMIC (Mechanical), and VIT-BS (Business School). Each school has its own labs, faculty, and research centers. With a diverse student body of over 50,000 learners from across India and 60 different countries, the institution maintains a truly cosmopolitan atmosphere. VIT campus is spread across a vast area of 572 acres. The remarkable aspect of VIT is the state-of-the-art infrastructure provided for both students and faculty.

About IIT Madras:

Indian Institute of Technology Madras (IITM) was established in 1959 with technical and financial assistance from the Government of the Federal Republic of Germany. Over the decades, it has solidified its position as a world-class center for teaching and research, consistently securing the No. 1 rank in the Engineering category by the NIRF. The institute comprises around 17 academic departments and several advanced research centers, offering a wide array of undergraduate, post-graduate, and doctoral programs to over 10,000 students. The campus is a unique, self-contained ecosystem sprawling over 617 acres of wooded land carved out of the Grand National Park. It features state-of-the-art infrastructure, including the high-tech New Academic Complex, the iconic Gopuram Circle, and the Research Park, which is the first of its kind in India to foster industry-academia collaboration.

Coordinator:

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PROGRAMS OFFERED

The School of Bio Sciences and Technology (SBST) VIT offers a wide spectrum of academic programmes at the undergraduate, postgraduate, and doctoral levels, preparing students for impactful careers in biotechnology, biomedical sciences, and allied fields.

Undergraduate Programme:

B.Tech. Biotechnology

Postgraduate Programmes:

M.Sc. Biotechnology

M.Sc. Biomedical Genetics

M.Sc. Applied Microbiology

M.Tech. Biotechnology

Integrated M.Sc. Biotechnology (5 years)

Integrated M.Sc. Food Science and Technology (5 years)

Doctorate Programmes:

Doctorate of Philosophy (Ph.D.)

Integrated Ph.D.

Deep-Tech Ph.D.

“Our world is built on biology and once we begin to understand it, it then becomes technology.” — Ryan Bethencourt



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Ms. Ananya Sen Sarma
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