



VIT[®]

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

SCHOOL OF BIO SCIENCES AND TECHNOLOGY

Celebrating completion of **25 years** of Excellence in
Education, Research, and Innovation



BIOBROADCAST

JUL-SEP 2026



Innovative
Minds



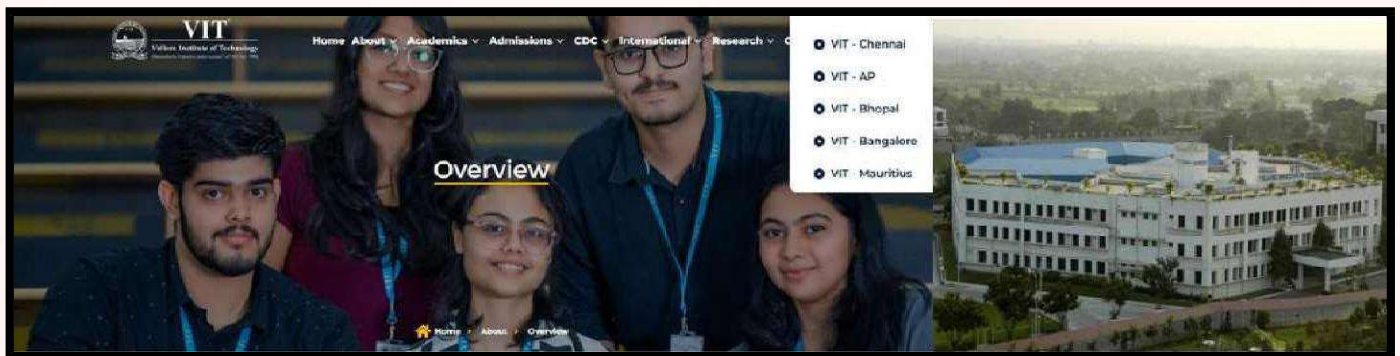
Impactful
Research



A Healthier
Tomorrow

VELLORE INSTITUTE OF TECHNOLOGY

VIT is a distinguished 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 597 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

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

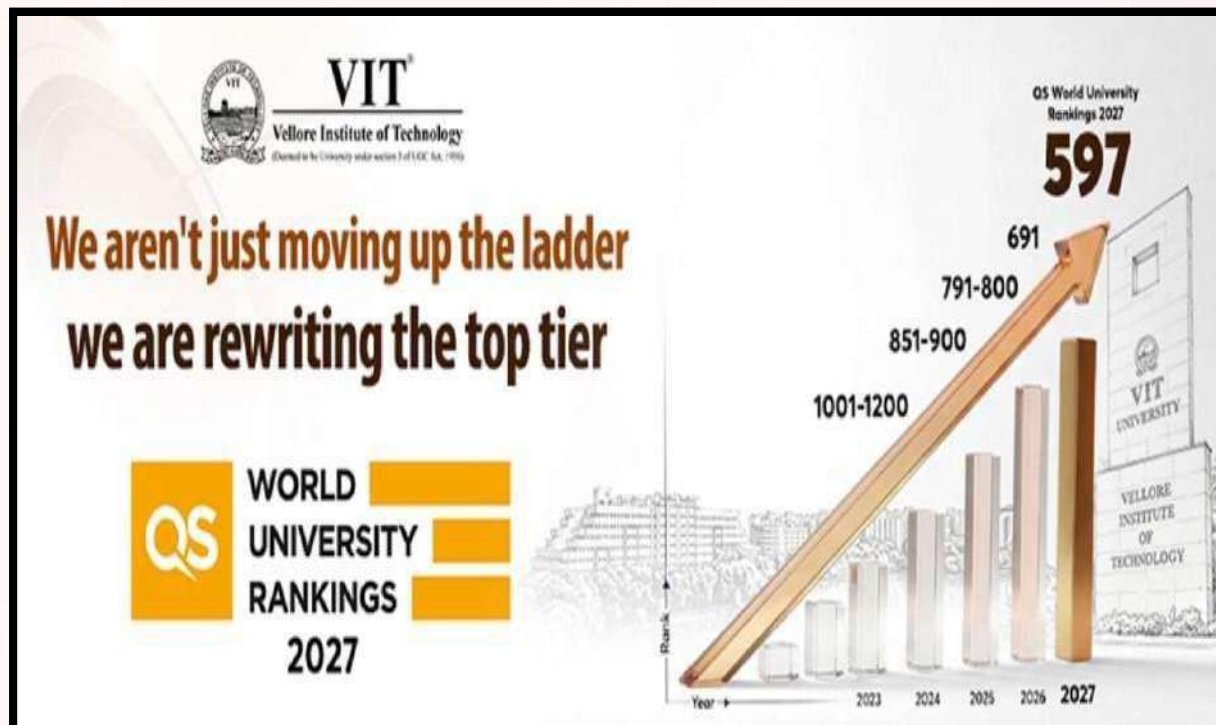
OUR INSPIRATION



Hon'ble Chancellor Dr. G. Viswanathan stands as a guiding light for the younger generation, inspiring countless students to pursue excellence with purpose. Under his visionary leadership, Vellore Institute of Technology (VIT) has grown into a global institution committed to innovation, integrity, and impactful education. The university fosters a dynamic and inclusive atmosphere that encourages creativity, discipline, and a shared responsibility for progress. As Dr. Viswanathan rightly states, “Knowledge is a protective shield which cannot be ruined by any external force.” This belief forms the cornerstone of VIT's academic philosophy.

The institute promotes an environment where faculty and students alike thrive in a culture of care, accountability, and continuous improvement. With robust national and international collaborations across academia and industry, VIT remains dedicated to fostering global competencies and economic development. Anchored in service and compassion, VIT's mission extends to improving lives through education that uplifts communities. Its core values include student-centric learning, strong ethical foundation, excellence in execution, social responsibility, and mutual respect to shape the institution's enduring legacy of transformation through knowledge.

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



VIT
Vellore Institute of Technology
(Chartered as the University under section 3 of UGC Act, 1956)

ALL RANKED SUBJECTS

Subject	World Rank	India Rank
Chemical Engineering	201-250	8
Civil Engineering	201-275	8
Physics	251-300	8
Chemistry	251-300	9
Statistics & Operational Research	251-275	8
Biological Sciences	301-350	7
Agriculture	401-475	12
Business & Management Studies	451-500	23

QS WORLD UNIVERSITY RANKINGS BY SUBJECT 2026

Source: <https://www.topuniversities.com/universities/vellore-institute-technology-vit-vellore-india>





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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



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

THE DEAN'S MESSAGE



It gives me immense pleasure to present the July–September 2026 edition of "BIOBROADCAST", capturing a quarter of remarkable achievements at the School of Bio Sciences and Technology (SBST), VIT, as we celebrate the completion of 25 years of excellence in education, research, and innovation.

The quarter began with the Research Scholar Orientation and Student Induction Programme 2026, and we were delighted to welcome our newly joined faculty. The NABL accreditation of our SEM facility strengthens our research infrastructure. We also took part in the 41st Annual Convocation, the inauguration of the Centre for Advanced Research (CARBID), and the Franco-Indian Campus ILIADE Twinning Degree Award Ceremony.

Our faculty continued to demonstrate outstanding productivity through publications in high-impact journals, consultancy and research grants, and numerous patents filed, published, and granted. These spanned nanomedicine, wound-healing biomaterials, bioplastics, functional foods, environmental remediation, and AI-enabled research, translating science into solutions for healthcare, agriculture, and sustainability.

Our students and scholars have made us equally proud. Team iGEM secured First Place at the All India iGEM Meet 2026, and several students and scholars won awards at national and international conferences. The Bio Expo 2026 showcased more than 65 creative innovations by our community, and 27 scholars successfully completed their doctoral viva-voce examinations.

Through guest lectures, alumni interactions, the Research and Developmental Series, a Faculty Development Programme, and the Executive Director Programme for Bioeconomy Corporation, Malaysia, SBST continued to strengthen academia–industry collaboration and global engagement.

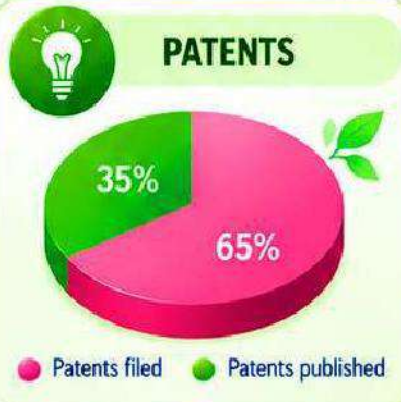
I extend my sincere gratitude to our Chancellor, faculty, students, research scholars, alumni, staff, and the Newsletter Committee for their dedication. Together, let us continue to push the boundaries of scientific discovery.

I hope you enjoy reading this edition of "**BIOBROADCAST**".

Prof. Dr. Suneetha Vuppu
Dean, SBST

SBST AT A GLANCE

JULY - SEPTEMBER 2026



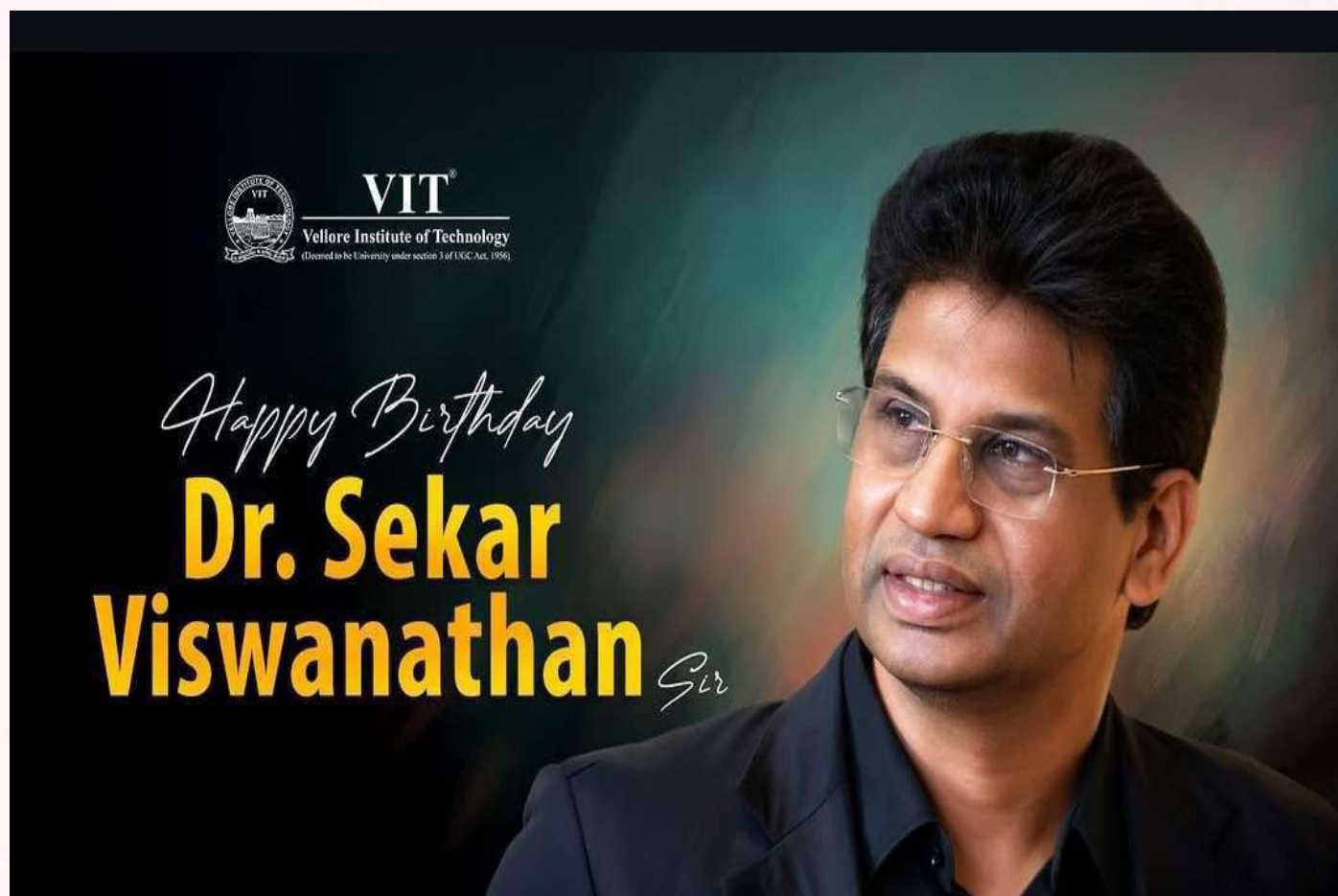
**MAURITIUS PRESIDENT AWARDS CROWN JEWEL OF
WORLD TAMILS TO
VIT VICE-PRESIDENT DR. SEKAR VISWANATHAN**



The **School of Bio Sciences and Technology (SBST)** extends its heartfelt congratulations to our respected Vice-President, Dr. Sekar Viswanathan, on receiving the prestigious “**Crown Jewel of World Tamils**” award from the President of Mauritius. A proud moment for the VIT community.

Heartiest congratulations, Sir!

BIRTHDAY WISHES



Wishing our respected Vice-President, **Dr. Sekar Viswanathan sir**, a very Happy Birthday on August 2nd. May he continue to be blessed with good health, happiness, and success.

NABL ACCREDITATION FOR THE SEM (SCANNING ELECTRON MICROSCOPE) FACILITY



National Accreditation Board for
Testing and Calibration Laboratories

CERTIFICATE OF ACCREDITATION

SCHOOL OF BIO SCIENCES AND TECHNOLOGY LABORATORY - VELLORE INSTITUTE OF TECHNOLOGY

has been assessed and accredited in accordance with the standard

ISO/IEC 17025:2017

**"General Requirements for the Competence of Testing &
Calibration Laboratories"**

for its facilities at

SIR M VISHWESHWARAIAH (SMV) BUILDING, FIRST FLOOR, ROOM NO. 130 (A), VIT - VELLORE
CAMPUS, KATPADI, THIRUVALAM ROAD, VELLORE, TAMIL NADU, INDIA

in the field of

TESTING

Certificate Number: NABL T0526 TN 18137 (In lieu of TC-12948)

Issue Date: 30/05/2026

Valid Until: 29/05/2030

This certificate remains valid for the Scope of Accreditation as specified in the annexure subject to continued
satisfactory compliance to the above standard & the relevant requirements of NABL.

(To see the scope of accreditation of this laboratory, you may also visit NABL website www.nabl-india.org)

Name of Legal Entity: VELLORE INSTITUTE OF TECHNOLOGY (VIT)

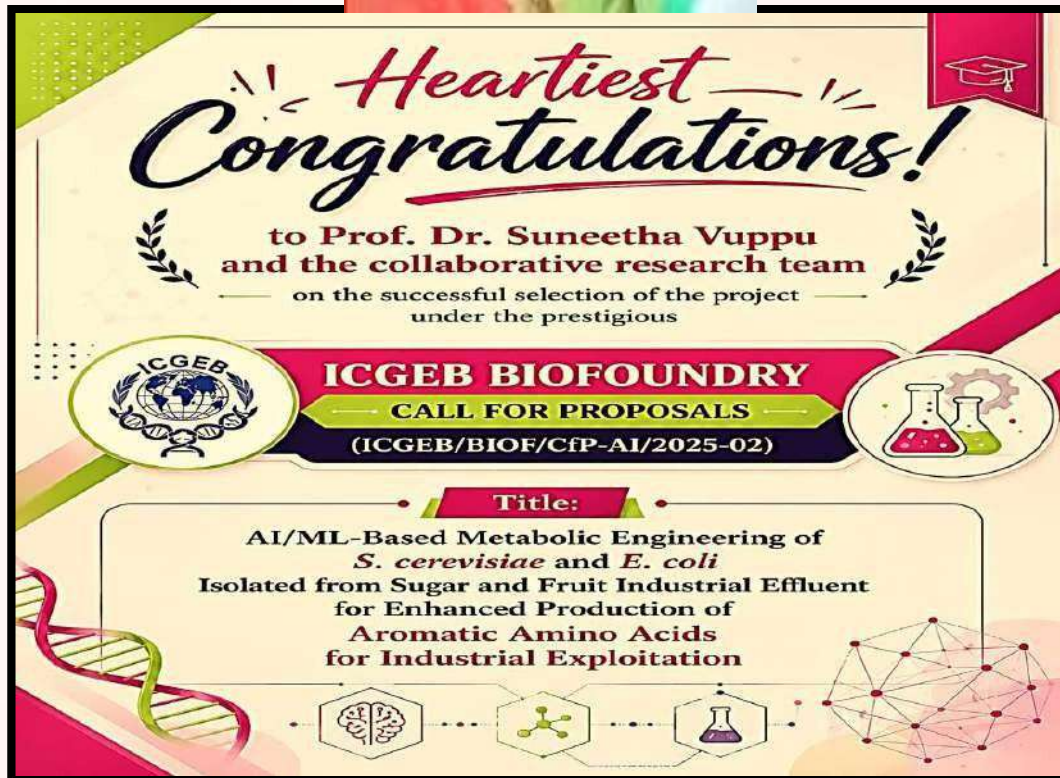
Signed for and on behalf of NABL




Anuja Anand
Director


Dr. Ramanand N. Shukla
Chief Executive Officer

RESEARCH ACHIEVEMENT



From: Amit Prabhakar <aprabhakar@icgeb.res.in>

Subject: selected for (EoI) Submission to the ICGEB Biofoundry (Next Steps)

To: <suneetha@vit.ac.in>

Cc: icgeb director <icgeb.director@gmail.com>, Syed Shams Yazdani <sshams@icgeb.res.in>, Naseem A. Gaur <naseem@icgeb.res.in>, Dinesh Gupta <dinesh@icgeb.res.in>, Biofoundry ICGEB New Delhi <biofoundry@icgeb.res.in>

Dear Prof Dr Suneetha Vuppu,

On behalf of the Proposal Screening and Evaluation Committee (PSEC), I am delighted to inform you that your Expression of Interest (EoI) and your project proposal has been selected to proceed with collaborative work with the ICGEB Biofoundry. We believe your project holds significant potential to advance the field of synthetic biology, and we are excited to support its execution through our state-of-the-art infrastructure and expertise. To initiate the project and formalize our partnership, we request that you proceed with the following next steps in this prioritised order:



COLLABORATORS

DR. K. SUTHINDIRAN, VIT
DR. J. SARAVANAN, CLONZYM.
DR. P. SWARNALATHA, VIT



VIN AWARD (2026-2027)



Congratulations to **Dr. V. Shanthi, HOD, Dept. of Biotechnology** on receiving the **VIT International Research Fund (VIN) Award 2026–2027** to visit the Technical University of Denmark (DTU), Denmark.

MEMORANDUM OF UNDERSTANDING



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**YASHRAJ
BIOTECHNOLOGY LTD.**
a bio-quest for every
Estd. 1999



Great Place
To Work.
Certified



**Collaboration-cum-License Agreement with
Yashraj Biotech Limited**

 Vellore Institute of Technology (VIT)

 [vellore-institute-of-technology](#)

 [vituniversity](#)

 [VIT_univ](#)

 [Vellore Institute of Technology](#)

 [vellore_vit](#)



OPEN IDEAS LAB

Certificate of Participation

This certificate is proudly presented to

Dr Suneetha Vuppu

for participating in the session

"A conversation about Curiosity, Discovery and a Life in Science"

with Professor Charles M. Rice, hosted by Open Ideas Lab on August 27, 2026.

Professor Charles M. Rice is the Maurice R. and Corinne P. Greenberg Professor in Virology and Head of the Laboratory of Virology and Infectious Disease at The Rockefeller University. He was awarded the 2020 Nobel Prize in Physiology or Medicine for the discovery of the Hepatitis C virus, work that enabled curative treatments now saving millions of lives.

Garima (Gauri) Mittal
Co-Founder, Open Ideas Lab



Open Ideas Lab
Official Seal

August 27, 2026 - Certificate No. OIL-270826018

Certificates are issued only to participants who attended more than 30 minutes of the live session.
Open Ideas Lab is a not-for-profit organisation registered in England and Wales as a company limited by guarantee (No. 17001729).



OPEN IDEAS LAB

Certificate of Participation

This certificate is proudly presented to

Dr Suneetha Vuppu

for participating in the session

"Cracking the Code of Life: The Biotechnology Revolution"

with Nobel Laureate Dr. Philip A. Sharp, hosted by Open Ideas Lab on September 10, 2026.

Dr Philip A. Sharp is an Institute Professor at MIT and co-founder of Moderna, a global pharmaceutical and other pioneering biotechnology companies. He was awarded the 2023 Nobel Prize in Physiology or Medicine for the discovery of RNA splicing, a finding that revolutionised our understanding of genetic diseases.

Garima (Gauri) Mittal
Co-Founder, Open Ideas Lab



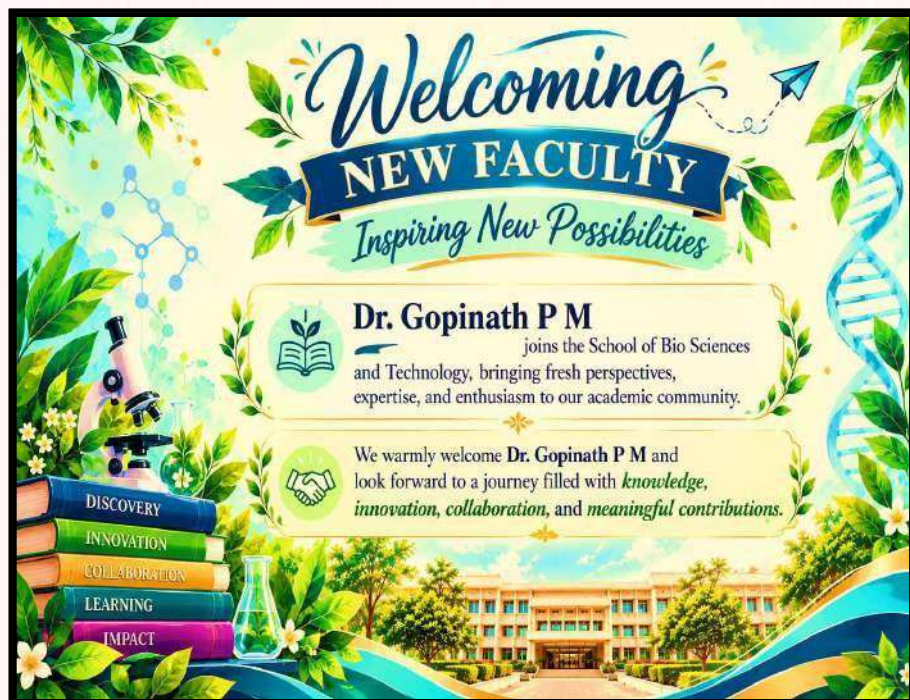
Open Ideas Lab
Official Seal

September 10, 2026 - Certificate No. OIL-170910008

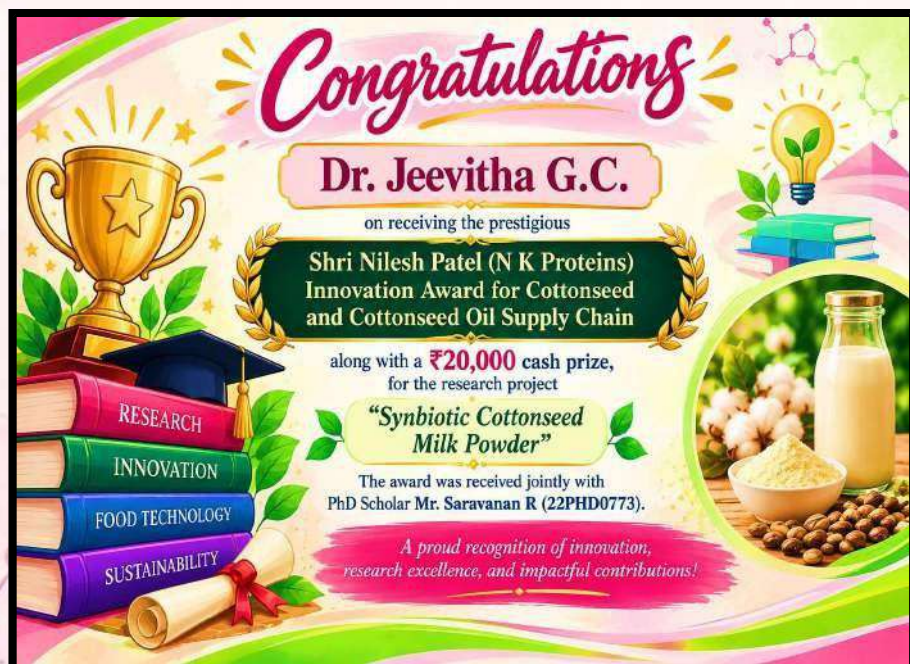
Certificates are issued only to participants who attended more than 30 minutes of the live session.
Open Ideas Lab is a not-for-profit organisation registered in England and Wales as a company limited by guarantee (No. 17001729).



NEWLY JOINED FACULTY



CELEBRATING RESEARCH INNOVATION



EVENTS ORGANIZED



VOICE OF BIOTECHNOLOGY



VIT
Vellore Institute of Technology

SCHOOL OF BIO SCIENCES AND TECHNOLOGY

VOICE OF BIOTECHNOLOGY

SBST presents

Voice of Biotechnology

The inaugural session of our new student-led talk series is here, a platform built to bring biotechnology's latest breakthroughs, emerging technologies, and career pathways to one stage. Whether your interest lies in research, innovation, or figuring out where biotech careers can take you, this session is designed for you.



DATE
29 July 2026



TIME
11:30 AM onwards



VENUE
SMV - 122



BIOTECHNOLOGY: LATEST BREAKTHROUGHS, EMERGING TECHNOLOGIES, AND CAREER PATHWAYS

LATEST BREAKTHROUGHS IN BIOTECHNOLOGY



Next-Generation Gene Editing



AI-Driven Drug Discovery



Synthetic Biology



3D Bioprinting



Cell & Gene Therapy



Microbiome Engineering



Precision Medicine



mRNA Technology Beyond Vaccines

EMERGING TECHNOLOGIES



Artificial Intelligence & Machine Learning



Single-cell Genomics



Organoids & Organ-on-Chip



Nanobiotechnology



Biofoundries & Automated Labs



Lab-on-a-Chip Devices



Sustainable Biomanufacturing



Quantum Computing in Drug Design

CAREER PATHWAYS IN BIOTECHNOLOGY



Research & Development



Pharmaceutical & Healthcare



Bioinformatics & Data Science



Industrial Biotechnology



Agricultural Biotechnology



Environmental Biotechnology



Entrepreneurship & Innovation

MAJOR APPLICATION AREAS



HEALTHCARE

Better health through innovation



AGRICULTURE

Sustainable food for the future



INDUSTRY

Bio-based solutions for a better world



ENVIRONMENT

Protecting our planet sustainably

VOICE OF BIOTECHNOLOGY



STUDENT INDUCTION PROGRAMME 2026 (04.07.26, 06.07.26, 13.07.26)





RESEARCH SCHOLAR ORIENTATION 2026

(01.07.26)



BIO EXPO 2026

Date	Sl. No.	Participant / Researcher	Reg. No. / Category	Product / Innovation
15-Jul-26	1	Shreya Pattanayak	23BBT0111 – Food Biotechnology	Multigrain Baked Khakhra Chaat – VIT innovative designed product
	2	Anushka Mukherjee	23BBT0079 – Food Biotechnology	Multivitamin-enriched snack with cucumber base
	3	Archana Alosious	24PHD0809	Chitosan Nano-encapsulated Ulva Seaweed Liquid Fertilizer
	4	Vinusam	25PDD2004	Pectinase enzyme produced through microbial fermentation using orange peel waste
	5	Rithik Roshini & Jahnavi Padmavathi	MSc Applied Microbiology	Antimicrobial Agarbattis from Flower Waste



BIO EXPO 2026

Date	Sl. No.	Participant / Researcher	Reg. No. / Category	Product / Innovation
22-Jul-26	6	Dibyanshu Lahiri	23BBT0073	Makhana Bhel
	7	Harish Sathyanandan	23BBT0090	Dahi Channa Chat
	8	Manasvi Jagannath	23BBT0140	Ragi Cookie
	9	Ria Susan	23BBT0061	Honey Date Crunch Bites
	10	Aritra Das Kanungo	23BBT0023	RagiVive – Ragi-based Sweet Ball
	11	Amrit Gupta	23BBT0152	Tiramisu Oats Bowl
	13	Mariyam A	24PHD0929	Dal Cookies



BIO EXPO 2026

Date	Sl. No.	Participant / Researcher	Reg. No. / Category	Product / Innovation
29-Jul-26	14	Amritesh	23BBT0086	Makhana Raita
	15	Kedar	23BBT0080	Moong Protein Bar
	16	Dayanitha	23BBT0184	Super Seed Nut Bites
	17	Kesar	23BBT0170	Fruit Raita
	18	Mahi	23BBT0181	Chocolate Granola Bowl



BIO EXPO 2026

Date	Sl. No.	Participant / Researcher	Reg. No. / Category	Product / Innovation
5-Aug-26	19	Deepika R	23BBT0109	Iron Truffles
	20	Ananya S S S V	23BBT0025	Diamond Bites (Sesame & Nuts)
	21	Saloni Nayak	23BBT0188	Beetroot Chips
	22	Shuruthi Waran	23BBT0134	Flora Til
	23	Rithik Roshini	25MSM0025	Bioplastic Sheets from Keratin Waste (Bird Feathers)
	24	Vinu Sam	25PDD2004	Pectin from Orange and Lemon Peel Waste
	25	Akshya K	24MFI0043	Health Mix
	26	Archana Aloshious	24PHD0809	Fertilizer from Marine Waste



BIO EXPO 2026

Date	Sl. No.	Participant / Researcher	Reg. No. / Category	Product / Innovation
19-Aug-26	27	Avanthika Murugesam	23BBT0039	Karuppu Kavuni Rice – Nutrifusion Laddu
	28	Harshita Kumar	23BBT0130	Honey Nut Date Bites
	29	Teju Sre S D	23BBT0100	Ragi Brownies
	30	Tanay Uday Shetty	22BBT0298	Pectin-based Fruit Gummies
	31	Sai Neelakshi	23BBT0098	Scented Incense Sticks against Staphylococcus aureus
	32	Archana Aloshious	24PHD0809	ULVAPEST – A Natural Biopesticide from Ulva Seaweed



BIO EXPO 2026

Date	S. No.	Student Name	Reg. No.	Product
02-Sep-2026	33	Geethika P Nambiar	23BBT0091	Fruit, Nut and Seed Energy Bites
	34	U. Nidhish	23BBT0172	High Protein Chocolate Mousse
	35	Aditi Arun	23BBT0043	ChocoNest (Granola Cups)
	36	Tejal P Manoj	22BBT0054	Beetroot ChocoBliss Balls
	37	Ancy Rose Shibu	24BBT0254	Nutmeg Coconut Bites
	38	Tanve Sablok	24BBT0134	Jowar Chips
	39	Vishnu Priya S	24PHD0603	Act-Grow (A Marine-Based Liquid Fertilizer)
	40	Sainath G	23PHD0365	Act-Shield (Bio Fungicide)
	41	Aditi Arun	23BBT0043	Choco Nest
	42	Ancy Rose Shibu	24BBT0254	Nutmeg Coconut Bites
	43	Fidha Latheef	24PHD077	MagLEMO (Lemongrass Ointment)



BIO EXPO 2026

Date	S. No.	Student Name	Reg. No.	Product
09-sep-2026	44	Dharshini	23BBT0082	Choco Cookie Sandwich
	45	Dhivyaveni K	23BBT0076	Ragi Almond Cookies
	46	Lakshana B	23BBT0032	Bake Free Brownie Bliss
	47	Rachel Nishitha Lawrence	23BBT0091	Pancake Bomb Bites
	48	Serene Joby	23BBT0099	Rice Paper Quinoa Dumplings



BIO EXPO 2026

Date	S. No.	Student Name	Reg. No.	Product
16-Sep-2026	49	Vishal Kaushik	23PHD0515	Extraction of Lignin for Industrial Applications
	50	Swagatika Priyadarshini L A	23PHD0534	Industrial Enzyme Production Using Plant-Based Waste
	51	Dashrath Sriwas	25PHD0333	Microbial Bioplastic Production
	52	Harshita Prakash Kannan	23BBT0042	Oatkin Delight
	53	Anishka Patel	23BBT0141	Deconstructed Mexi Bowl
	54	Saranya Kapoor	23BBT0009	Beetroot and Carrot Hummus
	55	Ishanvi Bhatt	23BBT0003	Prebiotic Millet Nachos
	56	Priyanshi Jain	24BBT0019	NutriSeed Laddoos



BIO EXPO 2026

Date	S. No.	Student / Team	Reg. No.	Product
23-sep-2026	57	Varnavi V	23BBT0102	Hummus Sushi Roll
	58	Shri Sakthi P	23BBT0071	Moong Bites
	59	Rujul Mandar Tengse	23BBT0078	Mini Carrot Rolls
	60	Ria Susan Chacko	23BBT0061	Healthy Snicker Bites
	61	Ancy Rose Shibu	24BBT0254	Beetroot Chia Chips
	62	Food Sciences Students – Rakshitha, Rithumitha, Shalini, Asin & Vivianna	—	Tomato Ketchup





41ST ANNUAL CONVOCATION (22.8.26-23.8.26)



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Annual Convocation

Heartiest Congratulations
to all our Graduates!

Your hard work, perseverance and dedication
have brought you to this moment of pride and achievement.
As you step into the next chapter, may you continue to
dream boldly, strive fearlessly and make a meaningful
impact in the world.

*The VIT family is proud of you
and wishes you a future filled with success,
purpose and fulfillment.*



41ST ANNUAL CONVOCATION (22.8.26-23.8.26)



Honorable Chief Minister of
Delhi, **Smt. Rekha Gupta**, as
Chief Guest





INAUGURATION OF CENTRE FOR ADVANCED RESEARCH (CARBID)

The CENTRE FOR ADVANCED RESEARCH IN BACTERIOPHAGE AND INFECTIOUS DISEASES (CARBID)

by
≡ **Dr. N. Ramesh** ≡
under

the prestigious extramural “Centre for Advanced Research” program funded by the
Indian Council of Medical Research (ICMR) was

inaugurated on **22 | August 2026**
at 9:30 a.m. at SJT Ground

by the *Chief guest* **Smt. Rekha Gupta, Hon'ble Chief Minister, Delhi**
along with **Mr. Babu Unnikrishnan**, Vice-President & CTO – BFSI, Tata Consultancy Services,
the *Guest of Honour* and **Dr. G. Viswanathan**, Founder and Chancellor, VIT, Vellore.



FRANCO-INDIAN CAMPUS, ILIADE - Consortium Twinning Degree Award Ceremony (31.8.2026)





ENGINEERS DAY (15.9.26)



CHANGEMAKERS SERIES: EXPLORING THE EVOLUTION OF GENOMES (25.09.26)

A CHANGEMAKERS SERIES EVENT

What We Have Learned About Evolutionary Genome Change in the Last 73 Years

with **Professor James A. Shapiro**

How do genomes change?
And is genetic change really
as random as we've assumed?



FEATURED SPEAKER

Professor James A. Shapiro
University of Chicago



HOSTED BY

Dr Suneetha V., Ph.D
Professor and Dean
School of Bio Sciences and Technology
Vellore Institute of Technology



Friday, 25 September 2026
7:30 PM IST
3:00 PM BST

Register Now →



SBST–EDP: EXECUTIVE DIRECTOR PROGRAM FOR BIOECONOMY CORPORATION, MALAYSIA

The **Executive Director Program (MyMahir)** was successfully conducted online for pharmaceutical professionals from **Bioeconomy Corporation, Malaysia**, in collaboration with **VITOL** and faculty members from **SBST**. The program provided participants with valuable academic and professional insights into emerging developments, practices, and challenges in the **pharmaceutical and bioeconomy sectors**.

Through interactive sessions led by experienced faculty members, the program emphasized **practical knowledge, professional development, emerging technologies, and industry-relevant applications**, fostering meaningful exchange between academia and industry.

The successful completion of the program highlights SBST's commitment to **knowledge transfer, capacity building, and impactful academia–industry collaboration**.

★ Special Recognition★



Heartiest congratulations to Dr. Pragasam V. on this remarkable achievement! His valuable professional contributions and association with **Biocon, Bengaluru**, are truly commendable. **Wishing him continued success and many more accomplishments ahead!**

*Inspiring
Research
Shaping
Tomorrow*

FACULTY ACHIEVEMENTS



*Knowledge
Innovation
Impact*



CONSULTANCY PROJECT GRANTS

Name of the Faculty	Consulting Agency	Sanctioned Amount	
Dr. Karthikeyan S	OmniActive Health Technologies Ltd, Navi Mumbai	5,03,270/-	
Dr. Martin G P	SM Global Technologies Usa, and BioHive, USA	4,78,814/-	
Dr. Jabez Osborne W	Otto Clothing Pvt. Ltd, Chennai	80,000/-	
Dr. Anbalagan M and Dr. Asha Devi S Phyto Specialities Pvt. Ltd. ,Chennai 59,000/-			 
Dr. Kanagavel Deepankumar	Alternative Protein Solution Private Ltd (APSPL), Maharashtra	2,66,000/-	

HIGH-IMPACT RESEARCH: FACULTY PUBLICATIONS (IF >10)

**Congratulations to our esteemed faculty on their outstanding publications in high-impact journals!
Your remarkable research excellence and dedication continue to inspire and elevate our scientific community.**

No.	Faculty	Journal	I.F	
1	Dr. Anand A	Gut Microbes	15.3	
2	Dr. K. M. Gothandam	Gut Microbes	15.3	
3	Dr. Kanagavel Deepankumar	Food Hydrocolloids	13.8	
4	Dr. W. Jabez Osborne	Archives of Toxicology	10.9	



PATENTS FILED (JUNE)



S.No	Title	Filed Date	Inventors Name	Application No	IPR ID	School / Cente
1	Antioxidant Tripeptide Inhibitors of Human Islet Amyloid Polypeptide Aggregation	10-Jun-26	Dr.Rajasekaran,Chandrasekar Gopalakrishnan,Sree Agash Saravanan Geetha,Vinutha Anandhan Sujatha,Akshay Sasidharankanishk Prabhu	202641072280	R-IPR0003725P	SBST
2	Anti-Inflammatory PEG-Based Topical Pharmaceutical Composition Comprising N-Acetyltaurine	10-Jun-26	Dr. Mahaboobkhan Rasool,Anjali Kumari,Ashik Anil Mathew	202641072272	R-IPR0003704P	SBST
3	Process for Producing an Iron-Fortified Boba Beverage by Reverse Spherification	12-Jun-26	Dr.Jeevitha G C,Karthick D,Jaswanth Kumar E,Sanjay Sagar Das C S,Thrisha B Nair,Kaviyarasu P,Swetha V	202641072840	R-IPR0004559P	SBST
4	Removal of Triphenyl Phosphate Using Diatom-Derived Bio-Silica	12-Jun-26	Dr. P.K.Suresh,Neethudas B.Y.	202641072845	R-IPR0004528P	SBST
5	A Novel Peptide Vmne244 From Lactobacillus Acidophilus Membrane Vesicles: Synthesis and Antibacterial Activity Against Streptococcus Mutans	15-Jun-26	Dr.Nalini E,Venkatramanan Mahendrarajan	202641073848	IPR0002710P	SBST
6	An Electrostatically Crosslinked Bioselective Scaffold	17-Jun-26	Dr. Debasish Mishra,Gutti Pavan	202641074782	IPR0002801P	SBST
7	A Pharmaceutical Composition for Treatment of Epidermal Growth Factor Receptor (EGFR)-Mutant Non-Small Cell Lung Cancer	17-Jun-26	Dr. C. Sudandira Doss,Poobana Dharmalingam,Alisha Martha Joseph	202641074776	IPR0002813P	SBST



PATENTS FILED (JUNE)



S.No	Title	Filed Date	Inventors Name	Application No	IPR ID	School / Cente
8	Integrated Co-Culture Based Bioprocess for Bioethanol Production From Microalgal Biomass Using Hybrid Hydrolysis Optimization	10-Jun-26	Dr.Ramesh Pathy Manian,Nivetha Sridhar	202641072075	IPR0004368P	SBST
9	Process and Composition for Producing Plant-Based Egg Analogues From Coconut Protein Isolate	21-Jun-26	Dr. Jeevitha G C Mr. Saravanan R Ms. Meenakshi R	202641076778	IPR0004125P	SBST
10	Process for Sequential Recovery of Polyphenols and Pectin From Mango Peel Waste	21-Jun-26	Dr. Jeevitha G C Mr. Saravanan R	202641076776	IPR0004126P	SBST
11	Method for Preparing Bioplastic From Strychnos Potatorum Seed Extract	21-Jun-26	Dr Dhanya Vishnu Swagata Pal	202641076805	IPR0004482P	SBST
12	Horizontal Triple Chamber Biofilm Based Bioreactor (HtcB) Using Plant-Based Substrate for Enhanced Removal of Lead	11-Jun-26	Dr.W. Jabez Osborne,Parry DEY	202641072752	IPR0003224P	SBST



PATENTS FILED (JUNE)



S.No	Title	Filed Date	Inventors Name	Application No	IPR ID	School / Cente
13	Process for Enhancing the Stability of Vitamin a in Confectionery Matrices by Nanoemulsification and Nanoencapsulation	11-Jun-26	Dr.Jeevitha GC,Shobana Shree K,Arya K	202641072753	IPR0003556P	SBST
14	Eugenol Nanoemulsion Formulation Encapsulating Ampicillin and Sulbactam	16-Jun-26	Dr. Natarajan Chandrasekaran,Dr. George Priya Doss C,Mohanraj Gopikrishnan	202641074363	R-IPR0000786P	CNBT,SBST
15	PEG-Based Arborinine Topical Composition for Inflammation Management	18-Jun-26	Dr.Mahaboobkhan Rasool,Gouri Hanumantappa Illanad,	202641075420	R-IPR0003698P	SBST



PATENTS FILED (JULY)



S.No	Title	Inventors Name	Application No	IPR ID	Filed Date	School / Center
1	Composition of Epigallocatechin-3-Gallate and Mir-27a-3P Inhibitor for Modulation of Wnt/ β -Catenin Signaling in Breast Cancer	Abul Kalam Azad Mandal, Shrila Banerjee	202641085218	IPR0003459P	11-7-2026	SBST
2	Integrated Table-Top Sequential Pulverizer Comprising a Hammer Mill, Ball Mill and Micron-Grade Sieving Unit	Anand Prem Rajan, Jose S, Harshan K	202641085219	IPR0003066P	11-7-2026	SBST, SMEC
3	A Hydrogel Composition for Wound Management and Method of Preparing a Hydrogel Patch	Debasish Mishra, A S Parvathy, Pavan Gutti	202641086700	IPR0004636P	15-07-2026	SBST
4	Computational Method for Identifying Therapeutic Targets and Candidate Compounds for Diabetic Nephropathy	Devi Rajeswari V, Soumik Das	202641087867	R-IPR0004387P	17-07-2026	SBST
5	A Process for Isolating Beta-Glucan from Marine Endophytic Debaryomyces Species Associated with Gracilaria Edulis	K.V.Bhaskara rao, Tharani P V	202641087878	R-IPR0004714P	17-07-2026	SBST
6	Composite Bioink Comprising Collagen-Capped Cinnamaldehyde Nanoemulsion for Three-Dimensional Bioprinted Scaffolds	Natarajan Chandrasekaran, Swetha G, Mohanraj Gopikrishnan, Dr. George Priya Doss C	202641087881	R-IPR0004733P	17-07-2026	CNBT, SBST



PATENTS FILED (JULY)



S.No	Title	Inventors Name	Application No	IPR ID	Filed Date	School / Center
7	A Hydrogel Device for Direct Air Carbon Dioxide Capture and in-Situ Mineralization and Method Thereof	Debasish Mishra, Subhasis Dash	202641089006	IPR0004706P	21-07-2026	SBST
8	A Method for Preparing Dual-Metal Functionalized Three-Dimensional Chitosan-based Scaffolds	Debasish Mishra, Pavan Gutti	202641089009	IPR0004626P	21-07-2026	SBST
9	A Composition of Dual-Metal Ionically Crosslinked Alginate-Glycerol Hydrogel and Method of Preparing the Same	Debasish Mishra, Dayita Pal, Kusal Ganguly, Pavan Gutti	202641089010	IPR0004631P	21-07-2026	SBST
10	Intelligent Plate - Health, Mood, Taste, Nutri Profile-based Food Recommendation System	DR.P.Arulmozhivarman, Mr. Sathish Kumar E T, Dr. Jeevitha G C, Dr. Pulidindi Venu Gopal, Dr. Swarnalatha. P, Dr. Sasikumar P	202641090143	IPR0002338P	24-07-2026	VIT & Globally GI Experience P.ltd (Industry)



PATENTS FILED (AUGUST)



S. No	IDF No	Application No	Title	Date of Filing	Inventors Name	School/ Centre
1	IPR0005047P	202641096627	Nebulized Nanoemulsion Formulation for Targeted Pulmonary Delivery of Antituberculosis Drugs	10-Aug-26	Natarajan Chandrasekaran, Dr. Mohanraj Gopikrishnan, Dr. George Priya Doss C	CNBT, SBST
2	IPR0004742P	202641096669	A Method for Integrated Microbial Remediation of Used Engine Oil Under Static Conditions	10-Aug-26	Krishnan Kannabiran, Sreenidhi Y	SBST
3	IPR0004551P	202641096673	System and Method for Post-Harvest Wheat grain Age Determination Using Image-Based Analysis	10-Aug-26	Rahul Vashishth, Udhaya Kumar M, Paras Sachdeva, Balaji E	SBST, SCORE
4	R-IPR0004793P	202641096856	Biodegradable Active Food-Packaging Film Comprising Chitosan And Onion-Peel-Derived Ferulic Acid	11-Aug-26	Ramesh Pathy Manian, Dhesiga K	SBST
5	R-IPR0004796D	202641096851	Ellagic Acid-Loaded Zeolitic Imidazolate Framework-8 Nano-Formulation And Process For Preparation Thereof	11-Aug-26	C Immanuel Selvaraj, Chirasmitha Mohanty, Nayan Kumar Sishu	VAIAL, SBST



PATENTS FILED (AUGUST)



S. No	IDF No	Application No	Title	Date of Filing	Inventors Name	School/ Centre
6	IPR0004887P	202641097383	Genetically Engineered Mammalian Cells And Methods For Targeted Transgene Integration At Vwf Exon 52	12-Aug-26	Balaji Balakrishnan, Nishal Kumarasamy	SBST
7	IPR0004676P	202641098917	Controlled Dual Modality Imaging Setup Integrating Thermal and Rgb Imaging for Non-Destructive Post-Harvest Quality Assessment of Fruits and Vegetables	15-Aug-26	Payel Ghosh, Arpan Garai, Gayathri Priyadharshini M S	SBST, SCOPE, CNR
8	R-IPR0004962P	202641102201	Process For Synthesizing Amino-Functionalised Trimetallic Magnetic Seaweed Biochar	24-Aug-26	Dr Dhanya Vishnu, Vijune Lawrence L	SBST
9	R-IPR0004976P	202641102197	Wound Dressing With Transition-MetalCoordinated Surface Functionalised Cotton Gauze And Method Of Preparation Thereof	24-Aug-26	Debasish Mishra, Aksa Mariam Liju, Pavan Gutti	SBST
10	R-IPR0004988P	202641102200	Bioselective Zinc-Coordinated Silk Fibroin-Chitosan Porous Scaffold And Method For Preparation Thereof	24-Aug-26	Debasish Mishra, Sunita Nayak, Debarchan Panda, Pavan Gutti	SBST
11	IPR0002787P	202641103959	A polymeric emulgel composition comprising a drug-loaded nanoemulsion for enhanced antimicrobial activity and topical management of diabetic wounds	28-Aug-26	Natarajan Chandrasekaran, Ms. Disha Pramanick, Mr. Mohanraj Gopikrishnan, Dr. George Priya Doss C	CNBT, SBST



PATENTS PUBLISHED (JUNE)



S. No	Title	Inventor Name	Application No	Published Date	School / Center
1	AI-Based System and Method for Cross-Chemical Prediction and External Validation of Oxidative Stress in Earthworms	W. Jabez Osborne, Manas Manam, Borra Sai Venkat	2026410554117	12/6/2026	SBST
2	Topical Hydrogel Composition Comprising Clitoria Ternatea Flower Extract	Vineetkumar Pillai, Rithvik A, DR. M. Rasool	202641065356	5/6/2026	SBST
3	Surface Enzyme Functionalized Polycaprolactone Microsphere With Enhanced Biodegradability for Sustained in Situ Oxygenation	Debarchan Panda, Dr. Sunita Nayak	202641066836	5/6/2026	SBST
4	Food-Grade Aqueous Biosorbent Composition and Process for Removal of Toxic Metals From Fish Muscle Tissue	Suryapratap Ray, Sri Sneha J V, Gracy Anu K F, Rahul Vashishth	202641066853	5/6/2026	SBST
5	Process for Genome-Guided Production and Extraction of Indole Type Metabolites Using Streptomyces Species	Prof. J. Godwin Christopher, Dr. Veilumuthu P	202641067195	5/6/2026	SBST
6	Method for Producing and Purifying Bioactive Isophytol Acetate With Antibacterial Activity From Endophytic Bacterium Vittdj1	W.Jabez Osborne, Tinamoni Buragohain	202641067197	5/6/2026	SBST



PATENTS PUBLISHED (JUNE)



S. No	Title	Inventor Name	Application No	Published Date	School / Center
7	Biofilm-Penetrating Lung-Targeted Nanoemulsion System for Enhanced Pulmonary Antibiotic Delivery Against Multidrug-Resistant Infections	Natarajan Chandrasekaran, Dr.George Priya Doss C, Dr.Mohanraj Gopikrishnan, Hrithupirya M B	202641067216	5/6/2026	CNBT,SBST
8	Synergistic Herbal Nanoemulsion-Based Topical Cream for Enhanced Mosquito Repellent Activity	Natarajan Chandrasekaran, Dr.George Priya Doss C, Dr.Mohanraj Gopikrishnan, Balamurugan Thangamari Vengatesh, Anna Sundar Sarmila	202641067217	5/6/2026	CNBT,SBST
9	Anticancer Composition Comprising Egcg and Mir-21A-3P Inhibitor for Lung Cancer Treatment	Abul Kalam Azad Mandal, Sharanya K	202641068095	5/6/2026	SBST
10	Microencapsulated Double-Emulsified Iron and Omega-3 Fortified Dessert Bar	Jeevitha GC, MS. Lakshana RH, MS. Swetha V	202641068100	5/6/2026	SBST
11	Genome-Guided Microbial Production of Squalene Using Endophytic Streptomyces	J Godwin Christopher, DR. P. Veilumuthu	202641068185	5/6/2026	SBST
12	A Method for the Synthesis and Functionalization of a Phytochemical Metal Oxide Nanocomposite	Dr. Gothandam Kodiveri Muthukaliannan, Harini Ravi	202641068207	5/6/2026	SBST



PATENTS PUBLISHED (JUNE)



S. No	Title	Inventor Name	Application No	Published Date	School / Center
13	Integrated Co-Culture Based Bioprocess for Bioethanol Production From Microalgal Biomass Using Hybrid Hydrolysis Optimization	Ramesh Pathy Manian, Nivetha Sridhar	202641072075	19/06/2026	SBST
14	Anti-Inflammatory PEG-Based Topical Pharmaceutical Composition Comprising N-Acetyltaurine	Mahaboobkhan Rasool, Anjali Kumari, Ashik Anil Mathew	202641072272	19/06/2026	SBST
15	Antioxidant Tripeptide Inhibitors of Human Islet Amyloid Polypeptide Aggregation	Rajasekaran, Chandrasekar Gopalakrishnan, Sree Agash Saravanan Geetha, Vinutha Anandhan Sujatha, Akshay Sasidharan, Kanishk Prabhu	202641072280	19/06/2026	SBST
16	Horizontal Triple Chamber Biofilm Based Bioreactor System for Removal of Lead From Lead Contaminated Water	W. Jabez Osborne, Parry DEY	202641072752	19/06/2026	SBST
17	Process for Stabilizing Vitamin a in Confectionery Matrices Using Nanoencapsulation	Jeevitha G C, Shobana Shree K, Arya K	202641072753	19/06/2026	SBST
18	Process for Producing an Iron-Fortified Boba Beverage by Reverse Spherification	Jeevitha G C, Karthick D, Jaswanth Kumar E, Sanjay Sagar DAS C S, Thrisha B Nair, Kaviyarasu P, Swetha V	202641072840	19/06/2026	SBST



PATENTS PUBLISHED (JUNE)



S. No	Title	Inventor Name	Application No	Published Date	School / Center
19	Removal of Triphenyl Phosphate Using Diatom-Derived Bio-Silica	P.K.Suresh, Neethudas B.Y.	202641072845	19/06/2026	SBST
20	A Dual-Drug Loaded Nanoemulsion Composition for Topical Management of Infected Wounds	Dr. Natarajan Chandrasekaran, Dr. George Priya Doss C, Mr. Mohanraj Gopikrishnan, Ms. Prathiksha Vasudev	202641074774	26/06/2026	CNBT,SBST
21	A Pharmaceutical Composition for Treatment of Epidermal Growth Factor Receptor (EGFR)-Mutant Non-Small Cell Lung Cancer	Dr. Sudandiradoss C, Poobana Dharmalingam, Alisha Martha Joseph	202641074776	26/06/2026	SBST
22	An Electrostatically Crosslinked Bioselective Scaffold	Dr. Debasish Mishra, Gutti Pavan	202641074782	26/06/2026	SBST
23	PEG-Based Arborinine Topical Composition for Inflammation Management	Mahaboobkhan Rasool, Gouri Hanumantappa Illanad	202641075420	26/06/2026	SBST
24	Fermented Vegetable-Based Probiotic Nutraceutical Powder and Process for Preparation Thereof	Mohansrinivasan V, Vijayaganapathia	202641075840	26/06/2026	SBST



PATENTS PUBLISHED (JULY)



S. No	Title	Inventor Name	Application No	IPR ID	Published Date	School / Center
1	Process for Sequential Recovery of Polyphenols and Pectin from Mango Peel Waste	Jeevitha G C; Saravanan R	202641076776	IPR0004126P	3/7/2026	SBST
2	Process and Composition for Producing Plant-based Egg Analogues from Coconut Protein Isolate	Jeevitha G C; Meenakshi R; Saravanan R	202641076778	IPR0004125P	3/7/2026	SBST
3	Method for Preparing Bioplastic from Strychnos Potatorium Seed Extract	DR.Dhanya vishnu; Swagata Pal	202641076805	IPR0004482P	3/7/2026	SBST
4	Composition of Epigallocatechin-3-Gallate and Mir-27a-3P Inhibitor for Modulation of Wnt/?-Catenin Signaling in Breast Cancer	Abul Kalam Azad Mandal; Shrila Banerjee	202641085218	IPR0003459P	17/07/2026	SBST
5	Integrated Table-Top Sequential Pulverizer Comprising a Hammer Mill, Ball Mill and Micron-Grade Sieving Unit	Dr. Anand Prem Rajan; DR.Jose s; Harshan.K	202641085219	IPR0003066P	17/07/2026	SBST, SMEC
6	A Hydrogel Composition for Wound Management and Method of Preparing a Hydrogel Patch	Debasish Mishra; Pavan Gutti; A S Parvathy	202641086700	IPR0004636P	17/07/2026	SBST
7	Computational Method for Identifying Therapeutic Targets and Candidate Compounds for Diabetic Nephropathy	Devi Rajeswari V; Soumik Das	202641087867	IPR0004387P	24/07/2026	SBST
8	A Process for Isolating Beta-Glucan from Marine Endophytic Debaryomyces Species Associated with Gracilaria Edulis	K.V.Bhaskara rao; Tharani P V	202641087878	IPR0004714P	24/07/2026	SBST
9	Composite Bioink Comprising Collagen-Capped Cinnamaldehyde Nanoemulsion for Three-Dimensional Bioprinted Scaffolds	Natarajan Chandrasekaran; Dr. George Priya Doss C; Mohanraj Gopikrishnan; Swetha G	202641087881	IPR0004733P	24/07/2026	CNBT, SBST



PATENTS PUBLISHED (JULY)



S. No	Title	Inventor Name	Application No	IPR ID	Publish ed Date	School / Center
10	A Hydrogel Device for Direct Air Carbon Dioxide Capture and in-Situ Mineralization and Method Thereof	Debasish Mishra; Subhasis Dash	202641089006	IPR0004706P	24/07/2026	SBST
11	A Method for Preparing Dual-Metal Functionalized Three-Dimensional Chitosan-based Scaffolds	Debasish Mishra; Pavan Gutti	202641089009	IPR0004626P	24/07/2026	SBST
12	A Composition of Dual-Metal Ionically Crosslinked Alginate-Glycerol Hydrogel and Method of Preparing the Same	Debasish Mishra; Pavan Gutti; Kusal Ganguly; Dayita Pal	202641089010	IPR0004631P	24/07/2026	SBST



PATENTS PUBLISHED (AUGUST)



S. No	IPR ID	Application No	Title	Date of Published	Inventors Name	School/ Centre
1	R-IPR0005047P	202641096627	Nebulized Nanoemulsion Formulation for Targeted Pulmonary Delivery of Antituberculosis Drugs	14-Aug-26	Natarajan Chandrasekaran, Dr.George Priya Doss C, Dr.Mohanraj Gopikrishnan	CNBT, SBST
2	R-IPR0004742P	202641096669	A Method for Integrated Microbial Remediation of Used Engine Oil Under Static Conditions	14-Aug-26	Krishnan Kannabiran, Sreenidhi Y	SBST
3	R-IPR0004796D	202641096851	Ellagic Acid-Loaded Zeolitic Imidazolate Framework-8 Nano-Formulation And Process For Preparation Thereof	14-Aug-26	C Immanuel Selvaraj, Nayan Kumar Sishu, Chirasmita Mohanty	VAIAL, SBST
4	R-IPR0004551P	202641096673	System and Method for Post-Harvest Wheat grain Age Determination Using Image-Based Analysis	14-Aug-26	Rahul Vashishth, Balaji E, Paras Sachdeva, Udhaya Kumar M	SBST, SCORE
5	R-IPR0004793P	202641096856	Biodegradable Active Food-Packaging Film Comprising Chitosan And Onion-Peel-Derived Ferulic Acid	14-Aug-26	Ramesh Pathy Manian, Dhesiga K	SBST
6	R-IPR0004887P	202641097383	Genetically Engineered Mammalian Cells And Methods For Targeted Transgene Integration At Vwf Exon 52	21-Aug-26	Balaji Balakrishnan, Nishal Kumarasamy	SBST
7	R-IPR0004676P	202641098917	Controlled Dual Modality Imaging Setup Integrating Thermal And Rgb Imaging For Non-Destructive Post-Harvest Quality Assessment of Fruits and Vegetables	21-Aug-26	Payel Ghosh, Gayathri Priyadarshini M S, Arpan Garai	SBST, CNR, SCOPE

PATENTS GRANTED



S. No	Title	Inventors Name	Patent No	Grant Date	School	Application No
1	Method For Preparation Of Transferrin-Conjugated Ph-Sensitive Dual-Drug Liposomes	Dr.Abul Kalam Azad Mandal, Priya Dharshini Lc	596742	24-07-2026	SBST	202541131643
2	A Heterobifunctional Proteolysis Targeting Chimers (Protacs) Compound For Selective Degradation Of Kras G12C And Kras G12D Mutant Proteins	Dr. Sivakumar Arumugam , Dr. Rajagopal Desikan, Reshma Rajan , Lenin Nachimuthu , Prasanna Srinivasan Ramalingam	596995	28-07-2026	SBST and SAS	202541066924





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- **Manikandan C.; Devi V.K. A.; Manivasagam G.; Pereira A.; Mano J.F.; Borges J.; Jaiswal A.K.; Udduttula A.**
"Nature's blueprint: Exopolysaccharides linking microbiome dynamics to advanced bone tissue engineering"
Journal: Carbohydrate Polymers | **Collaboration:** International | **Impact Factor:** 12.5
- **Kumar R. P.; Sigamani G.; Nelamangala Umesh V.; Lalitha R.; Natarajan D.; Kumar M.; Karuppasamy R.**
"Breaking the Scale Barrier in Biocatalyst Development: AI-Powered Enzyme Engineering for Minimal Variants and Commercial Efficiency"
Journal: ACS Sustainable Chemistry and Engineering | **Collaboration:** National | **Impact Factor:** 7.3
- **Marimuthu A.K.; Gopi R.R.; Sridhar J.P.; Ravi K.; Roy A.; Ramaiah S.; Anbarasu A.**
"Copper-coated carbon nanotube surfaces for inhibiting biofilm formation by Staphylococcus aureus and Pseudomonas aeruginosa"
Journal: Cell Surface | **Collaboration:** National | **Impact Factor:** 6.2
- **Sishu N.K.; Selvaraj C.I.; López Maldonado E.A.**
"Biogenically derived chitosan-encapsulated MgO/CuO nanocomposites using Croton persimilis M211. Arg. extract: a green route to advanced therapeutics"
Journal: Nanotechnology Reviews | **Collaboration:** International | **Impact Factor:** 6.1
- **Angelin J.; Lakshmi V.I.; Patnaik A.; Nowshad F.; Swetha P.; Kavitha M.**
"Process optimization of Pediococcus pentosaceus 4412-derived exopolysaccharides as a prebiotic in banana pseudostem juice fermentation"
Journal: Frontiers in Nutrition | **Collaboration:** VIT | **Impact Factor:** 5.1
- **Shree Kumari G.R.; Vaithilingam M.**
"Exploring the probiotic landscape in understanding postbiotics from indigenous bacteria isolated from the stool samples of a tribal population at Mulluvadi village, Tamil Nadu, India"
Journal: Frontiers in Pharmacology | **Collaboration:** VIT | **Impact Factor:** 4.8
- **Mundhe A.K.; Rajkumari R.**
"In silico identification of isosilybin a targeting squalene epoxidase as an antifungal adjuvant with in vitro validation against azole-resistant Candida and emerging yeasts"
Journal: Frontiers in Cellular and Infection Microbiology | **Collaboration:** VIT | **Impact Factor:** 4.8
- **Sharma D.; Gutti P.; Rai P.; Jyoti A.; Mishra D.; Sengupta D.**
"Anti-HIV and anti-SARS-CoV-2 potential of functionalized meso-4-carboxy & 4 hydroxy substituted porphyrins: Evidence for receptor-binding mechanisms dominating over singlet oxygen pathways"
Journal: Journal of Molecular Structure | **Collaboration:** National | **Impact Factor:** 4.7
- **Sasidharan A.; Ramalingam R.**
"Exploring the Mechanism of Alyteserin-1c in Gram-Positive and Gram-Negative Bacterial Membrane Models Using a Computational Approach"
Journal: MicrobiologyOpen | **Collaboration:** VIT | **Impact Factor:** 4.6



- **Venkatesan U.; Muniyan R.**
“Antimicrobial evaluation of Cardiospermum halicacabum L. leaf fractions and its usage in active bioactive film formation for shelf-life enhancement in fresh-cut fruits”
Journal: Frontiers in Microbiology | **Collaboration:** VIT | **Impact Factor:** 4.5
- **Viswan A.; Hermon A.J.; Hemabindu Madhusoodanan A.; Amutharaj P.G.; Nair S.R.; Ganesh S.K.; Arimalai Dinakararaja S.; Kannat Radhakrishnan E.; Vaithilingam M.; Chandrasekaran S.D.**
“Exploring the bioactive potential of green synthesized silver nanoparticles coated serratiopeptidase and chalcone derivatives”
Journal: Discover Nano | **Collaboration:** VIT | **Impact Factor:** 4.5
- **Pattapulavar V.; Subburaj S.; Ramanujam S.; Shil R.; Velmurugan P.; Ghatak T.; Muthusamy S.; Samrot A.V.; Christopher J.G.**
“Genome mining strategies to unlock the metabolic potential of Streptomyces sp. VITGV100 (MCC 4961) for next-generation antimicrobial discovery”
Journal: Frontiers in Microbiology | **Collaboration:** International | **Impact Factor:** 4.5
- **Viswan A.; Jossia Hermon A.; Hemabindu Madhusoodanan A.; Nair S.R.; Kanisankandy S.; Suresh K.N.; Vaithilingam M.; Chandrasekaran S.D.**
“Production, optimization, and purification of serratiopeptidase from Bacillus siamensis found in marine sediments”
Journal: Frontiers in Microbiology | **Collaboration:** VIT | **Impact Factor:** 4.5
- **Lingasamy P.; Ostrowska Leśko M.; Tsakalis P.; Patel N.; Chamatidis I.; Sudhakaran S.L.; Kubik J.; Bobiński M.; Lagaros N.D.; Salumets A.; Modhukur V.**
“Deep learning-based prediction of gene expression from histopathology identifies NR5A1 as a candidate biomarker and druggable target in high-grade serous ovarian carcinoma”
Journal: Journal of Ovarian Research | **Collaboration:** International | **Impact Factor:** 4.2
- **Gupta M.K.; Sudandiradross C.**
“Molecular dynamics simulations for understanding dual ubiquitination mechanisms to consider S-phase kinase associated protein 2 (SKP2) as a potential drug target in breast cancer”
Journal: Frontiers in Chemistry | **Collaboration:** VIT | **Impact Factor:** 4.2
- **Sasikumar D.S.N.; Sundarajan V.**
“Network pharmacology and molecular docking-based evaluation of the ethnomedical use of Rasnapanchakam in complementary treatment of rheumatoid arthritis”
Journal: Results in Chemistry | **Collaboration:** VIT | **Impact Factor:** 4.2



- **K. D.; Ramaiah S.**
"In silico identification of phytocompounds derived from Glycyrrhiza glabra as potential inhibitors of actin assembly inducing protein in Listeria monocytogenes: a virtual screening and molecular dynamics study"
Journal: Frontiers in Bioinformatics | **Collaboration:** VIT | **Impact Factor:** 3.9
- **Datta A.; George Priya Doss C.**
"Integrated molecular dynamics elucidation of TP53 H179 zinc-binding variants: genomic and structural characterization across NSCLC subtypes"
Journal: Frontiers in Bioinformatics | **Collaboration:** VIT | **Impact Factor:** 3.9
- **Kacha S.; Arun J.; Nargund N.; Joshi T.; Mathpal S.; Ramaiah S.; Anbarasu A.**
"Repurposing the angiotensin II receptor blocker valsartan to inhibit penicillin-binding protein 3 and its mutants in Haemophilus influenzae: a comprehensive in silico approach"
Journal: Frontiers in Bioinformatics | **Collaboration:** VIT | **Impact Factor:** 3.9
- **Chaudhary U.; Nanda Kumar S.K.; Ramaswamy M.; Asai Thambi M.**
"Transcriptomics-driven identification of CDK1 as a central oncogenic driver in TNBC: an in silico structural modeling and MD simulation approach"
Journal: Frontiers in Bioinformatics | **Collaboration:** National | **Impact Factor:** 3.9
- **R B.; Nagabushanam D.S.; Thirunavukarasu R.; C G.P.D.**
"Machine learning-enhanced QSAR modeling for predicting drug efficacy against the RET V804M kinase domain mutation"
Journal: Molecular Diversity | **Collaboration:** VIT | **Impact Factor:** 3.8
- **Lazarus H.P.S.; Easwaran N.**
"Membrane vesicles associated antimicrobial peptides from PGPR Priestia megaterium VIT-2021 confer in silico efficacy against Pseudomonas syringae virulence protein"
Journal: Plant Signaling and Behavior | **Collaboration:** VIT | **Impact Factor:** 3.6
- **Jayakumar N.; Subramanian S.**
"Phosphate and Ammonium Adsorption from Treated Sewage Sludge Ash Using Magnesium-Impregnated Biochar-Alginate Composite"
Journal: International Journal of Environmental Research | **Collaboration:** VIT | **Impact Factor:** 3.5
- **Purohit N.; Parasurama D.S.**
"Machine learning optimized callogenesis in Justicia gendarussa Burm. f. and phytochemical profiling of in vitro derived callus and leaf extracts"
Journal: BMC Biotechnology | **Collaboration:** VIT | **Impact Factor:** 3.4
- **Gayatri M.B.; Behera A.; Chava S.; Vyakaranam P.; Venkatraman G.; Rayala S.K.; Reddy A.B.M.**
"AMPK/mTORC2/AKT-473/RUNX2 signaling axis modulates epithelial-mesenchymal transition and bone tropism in breast cancer"
Journal: Frontiers in Oncology | **Collaboration:** National | **Impact Factor:** 3.3



- **Swetha V.; Jeevitha G.C.**
“Sequential extraction of mucilage and pectin from banana peels using natural deep eutectic solvents”
Journal: Frontiers in Sustainable Food Systems | **Collaboration:** VIT | **Impact Factor:** 3.1
- **Bibha Mishra A.; Tomer V.; Sasikumar R.**
“Biophysical and functional characterization of selected edible gums – a comparison enabling application-oriented decision making”
Journal: Food Hydrocolloids | **Collaboration:** National | **Impact Factor:** 13.8
- **Mahalakshmi V.; Ramesh P.; Palanippa A.; Boopalan G.; Viannie L.R.**
“Facile synthesis and superior electrochemical behaviour of Pt-decorated ZnO nanorods for advanced energy storage applications”
Journal: Journal of Energy Storage | **Collaboration:** International | **Impact Factor:** 10.7
- **Pal S.; Vishnu D.**
“Synthesis of surface-engineered Strychnos potatorum integrated zirconium nanomaterial for the removal of cationic dye? detailed mechanism and DFT insights”
Journal: Results in Engineering | **Collaboration:** VIT | **Impact Factor:** 9.4
- **Mohan A.A.; Talwar P.**
“Gene Expression Analysis of Mitochondria Associated Membrane (MAM)-Related Genes in ER Stress and Alzheimers Disease”
Journal: Cellular and Molecular Neurobiology | **Collaboration:** VIT | **Impact Factor:** 7.4
- **Dharshini L.C.P.; Mandal A.K.A.**
“Transferrin-decorated CHEMS-liposomes: A nanoengineered platform for pH responsive co-delivery of EGCG and miR 30a-5p”
Journal: Colloids and Interface Science Communications | **Collaboration:** VIT | **Impact Factor:** 6.7
- **Mohanaraman S.P.; Chidambaram R.**
“Development and evaluation of a functional edible coating for enhancing grape shelf life: A chemical-free approach”
Journal: Future Foods | **Collaboration:** VIT | **Impact Factor:** 6.6
- **Kumar N.S.S.; Rana S.S.; Sarbon N.M.; Chintagunta A.D.; Kundu D.**
“Valorization of Neolamarckia cadamba fruit peel into pectin: an integrated RSM?ANN modeling and structural characterization approach”
Journal: RSC Advances | **Collaboration:** International | **Impact Factor:** 6.1
- **Kathiravan S.; Kalijari G.S.; Kirubakaran A.M.K.; Kumar R.R.; Kurien R.A.; Viswanathan; Ramachandran**
“Electrochemical impedance spectroscopy of high-temperature oxidation in Co-based superalloys (KC20WN and MP35N) in static hot air for aerospace applications”
Journal: Ceramics International | **Collaboration:** International | **Impact Factor:** 6.0



- **Vijayakumar S.; Ramaiah S.**
“A comparative genomic approach to identify determinants of meropenem resistance in Klebsiella pneumoniae using pan-genome-wide association analysis”
Journal: Frontiers in Microbiology | **Collaboration:** VIT | **Impact Factor:** 5.8
- **Mudipalli Elavarasu S.; K.S.**
“Identification of a novel natural compound inhibitor targeting AmpC β -lactamase to combat multidrug-resistant Pseudomonas aeruginosa”
Journal: Frontiers in Microbiology | **Collaboration:** VIT | **Impact Factor:** 5.8
- **Ramasubbu K.; V. D.R.**
“Zinc oxide nanoparticles mitigate insulin resistance in a D-galactose-induced C57BL/6 mouse model”
Journal: Frontiers in Endocrinology | **Collaboration:** VIT | **Impact Factor:** 5.7
- **Laskar P.; Singh B.**
“Harnessing meta-analysis and artificial intelligence to reveal conserved regulatory biosignatures of abiotic stress in soybean”
Journal: Biology Direct | **Collaboration:** VIT | **Impact Factor:** 5.5
- **Kiruba B.; Sundararajan V.**
“Synergistic Profiling of Programmed Cell Death and Immune Responses Identifies a Novel Prognostic Index for Cervical Cancer”
Journal: ACS Omega | **Collaboration:** VIT | **Impact Factor:** 5.2
- **Muthukumar J.; Chidambaram R.; Arunachalam N.; Kumar S.; Ganesamoorthy R.**
“Sustainable food packaging films from Sargassum wightii: Fucoidan-based nanocomposite films reinforced with cellulose nanocrystals”
Journal: Bioresource Technology Reports | **Collaboration:** International | **Impact Factor:** 5.0
- **Dey U.; Madabhushi L.P.; Chacko A.A.; Gopalakrishnan A.V.; Santhanam R.; Gajendran B.**
“Gut microbiome-mediated modulation of the glioblastoma tumor microenvironment for enhanced immunotherapy response: Mechanistic insights and future perspectives”
Journal: Cellular Signalling | **Collaboration:** VIT | **Impact Factor:** 4.7
- **Riyamol; Gada Chengaiyan J.**
“Enzymatic production of pectic oligosaccharides from onion peel pectin: optimization of process parameters for enhanced yield”
Journal: Frontiers in Sustainable Food Systems | **Collaboration:** VIT | **Impact Factor:** 4.1
- **Gopikrishnan M.; Pramanick D.; Poornima K.B.S.; Gutam N.; Doss C.G.P.; Chandrasekaran N.**
“Eugenol microemulsions exhibit potent activity against drug-resistant diabetic foot ulcer pathogens: Toward nanocomposite-based wound healing applications”
Journal: Microbial Pathogenesis | **Collaboration:** VIT | **Impact Factor:** 3.9



- **George E.A.; Naha A.; Ramaiah S.**
“A 4-methyl-substituted durlobactam analogue as a potential class-D oxacillinase inhibitor in Acinetobacter baumannii? an in silico study”
Journal: Frontiers in Bioinformatics | **Collaboration:** National | **Impact Factor:** 3.6
- **Sharma D.; Subramaniam M.; Anabala M.; Muniyan R.**
“An integrative machine learning, explainable AI, molecular simulation, and cytotoxicity validation framework for the discovery of selective SIRT1 inhibitors against triple negative breast cancer”
Journal: Frontiers in Bioinformatics | **Collaboration:** National | **Impact Factor:** 3.6
- **Muzammil S.M.; Devi S.A.**
“Association of FCRL3 gene variants with rheumatoid arthritis susceptibility in the Indian population: a combined case-control and in-silico analysis”
Journal: Frontiers in Bioinformatics | **Collaboration:** VIT | **Impact Factor:** 3.6
- **Munieswaran G.; Subramani N.K.; Rajan A.P.; Manickam V.**
“Immunoinformatic-guided design of a polo-like kinase 1 (PLK1)-targeted multi-epitope vaccine with preliminary in vitro validation”
Journal: Frontiers in Bioinformatics | **Collaboration:** VIT | **Impact Factor:** 3.6
- **Roy A.; Anbarasu A.**
“Integrated machine learning, molecular dynamics, and density functional theory approaches for identifying potential inhibitor targeting TEM β -lactamase in Escherichia coli”
Journal: Frontiers in Bioinformatics | **Collaboration:** VIT | **Impact Factor:** 3.6
- **Manikandan C.; Ravi N.S.; M. Kumarasampy M.; Jaiswal A.K.**
“Targeted Inhibition of Nuclear Factor- κ B Pathway Using Recombinant Adeno Associated Virus 5 in 2D and 3D Glioblastoma Models”
Journal: Cellular and Molecular Bioengineering | **Collaboration:** International | **Impact Factor:** 3.5
- **Gopalan S.P.; Sundararajan V.**
“A novel explainable AI for revealing determinants of cancer drug response through integrative multi-omics analysis”
Journal: Frontiers in Oncology | **Collaboration:** VIT | **Impact Factor:** 3.4
- **Logeshwaran A.; Elsen R.; Bagde A.D.; Nayak S.**
“3D printed silk fibroin-bentonite hydroxyapatite hybrid scaffold with antioxidant property for bone regeneration”
Journal: Journal of Porous Materials | **Collaboration:** National | **Impact Factor:** 3.0

RESEARCH PAPERS (AUGUST)



- **Rajamani R.P.; Deepankumar K.**
Intelligent pH-responsive colorimetric films based on κ -carrageenan/grape peel extract for real-time monitoring of food freshness
Food Hydrocolloids | VIT | **IF: 13.8**
- **Sadhanandan S.; Suresh P.; Priya S.; Suseem S.R.; Muneer S.**
*Green-synthesised root nodule sourced N-doped carbon dots as an effective nanobio-stimulant to reduce salt stress in paddy (*Oryza sativa* L.)*
Plant Nano Biology | VIT | **IF: 9.1**
- **Thajuddin F.; Ashok C.; Chithirai A.; Rasheed A.S.; Thirunavukkarasu M.K.; Karuppasamy R.; Nooruddin T.; Dharumadurai D.**
*Statistical optimization of biomass production in *Limnospira fusiformis* NRMCF6962, evaluation of polyhydroxybutyrate accumulation, and application in tannery effluent phycoremediation*
Biomass and Bioenergy | National | **IF: 7.0**
- **Sridhar N.; Manian R.P.**
Integrated utilization of residual microalgal biochar as an anode material in microbial fuel cells for simultaneous wastewater treatment and energy recovery
Chemical Engineering Journal Advances | VIT | **IF: 6.9**
- **Krishnan D.; Rameshpathy M.**
*Sustainable process intensification for ferulic acid recovery from *Allium cepa* byproduct: Ultrasound-assisted alkaline extraction and statistical optimization*
Industrial Crops and Products | VIT | **IF: 6.4**
- **Ghosh S.; Sindhuja P.; Senthil Kumar P.; Mohan A.; Mahalakshmi P.; Guly's B.; Muthu D.; Padmanabhan P.**
Hybrid Edge-Cloud Asymmetric Analytics for Portable Multimodal BCI Biosensors
Biosensors | International | **IF: 6.2**
- **Murugan D.; Rangasamy L.**
Hitting the bullseye: PSMA-targeted small molecule drug conjugate for prostate cancer treatment
RSC Advances | VIT | **IF: 6.1**
- **Rex M C.; Gupta M.K.; Sudandiradoss C.; Mukherjee A.**
*Polystyrene microplastics reduce the food chain transfer and toxicity of TiO_2 nanoparticles in crustacean *Artemia salina* through dietary exposure of microalga *Chlorella* sp.: impact of visible light and ultraviolet-A radiation*
RSC Advances | VIT | **IF: 6.1**
- **Shinde A.L.; Raja P.; Velmurugan P.; Sahoo A.K.; Meena M.; Samadder S.; Sarbajna A.; Singh R.; Maity A.R.; Mishra V.; Christopher J.G.; Ghatak T.**
An air tolerant N-heterocyclic imine-Pd(II) catalyst for oxidative dehydrogenative annulation of alcohol towards quinazolinones scaffolds
Inorganic Chemistry Communications | National | **IF: 5.9**

RESEARCH PAPERS (AUGUST)



- **Vyas V.; Sishu N.K.; Mohanty C.; Selvaraj C.I.**
Eco-friendly synthesis of Croton malabaricus-mediated trimetallic ZnO-MgO-TiO₂ nanoparticle with enhanced therapeutic activity
Inorganic Chemistry Communications | VIT | IF: 5.9
- **Menaga S.; Kumari S.**
Fabrication of a visible light photocrosslinkable κ -carrageenan-gelatin hydrogel patch to aid in wound healing applications
Frontiers in Bioengineering and Biotechnology | VIT | IF: 5.8
- **Chatterjee D.; Biswas I.; Mittal S.; Routh S.; Manickam V.; Tanvir K.; Karunanidhi G.; Godha A.; Sivashanmugam K.**
From computational screening to in vitro validation: exploring antimicrobial peptides against Pseudomonas aeruginosa
Frontiers in Microbiology | International | IF: 5.8
- **Loganathan T.; Madhulekha S.; Shree Devi M.S.; George Priya Doss C.**
Integrative pharmacological network exploration of Kaempferol from polyherbal D5 chooranam in diabetic nephropathy
Results in Chemistry | National | IF: 5.8
- **Ravi J.L.; Rana S.S.**
Isolation and in vitro characterization of bacterial isolates from fermented pearl millet
Frontiers in Microbiology | VIT | IF: 5.8
- **Shirsat S.; Jayasri M.A.; Suthindhiran K.**
Magnetotactic bacteria as biostimulants for enhancing the growth and yield of tomato and paddy under abiotic stress
Frontiers in Microbiology | VIT | IF: 5.8
- **Vinayagam Y.; Vijayarangan D.R.**
Mycogenic TiO₂ nanoparticles for remedying toxic metals in industrial wastewater and their toxicity profiling
Frontiers in Nanotechnology | VIT | IF: 5.8
- **Ashokan A.K.; Vaithilingam M.**
Experimental analysis and genome mining for functional validation of genes associated with anti-inflammatory, antioxidant, and antibacterial activities in Kurthia gibsonii VITAM20
Frontiers in Pharmacology | VIT | IF: 5.4
- **Jena S.P.; Prince S.E.**
Protective role of Bergenia ciliata in artesunate-induced nephrotoxicity: a translational pharmacology study integrating in-silico and experimental evidence
Frontiers in Pharmacology | VIT | IF: 5.4
- **Nandagopal P.B.; Manickam V.**
Restoring redox homeostasis through S-adenosyl-L-methionine and B-vitamins cosupplementation alleviates ethanol-induced hepato-pancreatic injury by regulating glutathione biosynthesis in C57BL/6J mice
Frontiers in Pharmacology | VIT | IF: 5.4



- **Balaji V.; Mahalingam G.**
GC-MS profiling, in vitro antioxidant and toxicity evaluation, and in silico pharmacokinetic and molecular docking prediction of the phytocompounds of Rungia repens (L.) Nees targeting SarA of Staphylococcus aureus
Frontiers in Chemistry | VIT | **IF: 5.3**
- **Sharma Y.; Roy S.D.; Das R.; Manian R.; Gurusamy A.; Shankar V.**
Comparative Evaluation of Machine Learning-Assisted Statistical Modeling of Biopolymer Hydrogel Swelling for Material Optimization
ACS Omega | National | **IF: 5.2**
- **Paranthaman N.; Mohanty B.; Jenifer M.A.**
Assessing the geospatial distribution and association of microplastics with water quality in the lakes of Vellore, Tamil Nadu, India
Scientific Reports | VIT | **IF: 4.9**
- **Mathpal S.; Joshi T.; Guchhait R.; Ramaiah S.; Anbarasu A.**
Computational screening of antimicrobial peptide analogs targeting AdeB efflux transporter protein in Acinetobacter baumannii associated with multidrug resistance
Scientific Reports | VIT | **IF: 4.9**
- **Biswas R.; Anbarasu A.**
In silico genomic analysis of resistome, virulome, and mobilome of β -lactamase-producing Klebsiella pneumoniae
Scientific Reports | VIT | **IF: 4.9**
- **Chitrashalini S.; Kumar S.V.**
Radermachera sinica leaf extract-mediated synthesis of chitosan nanoparticles for antimicrobial efficacy and improved growth performance of Oryza sativa
Biocatalysis and Agricultural Biotechnology | VIT | **IF: 4.6**
- **Panda S.; Ahmad F.**
Bovine Milk Exosomes as Natural Cytoprotective Nanoplatfoms Against Lead-Induced Toxicity
Biologics: Targets and Therapy | VIT | **IF: 4.5**
- **Murugan D.; Rangasamy L.**
Receptor-Targeted Folic Acid Ligand-Drug Conjugate of Exatecan Leads to Complete Tumor Regression in the Preclinical Tumor Model
Bioconjugate Chemistry | VIT | **IF: 4.5**
- **Priya V.; Ahmad F.**
Crocus sativus improves cognitive functions and reduces anxiety-like behavior in aged rats exposed to chronic cold temperature-induced stress
Frontiers in Molecular Neuroscience | VIT | **IF: 4.4**
- **Malwankar S.V.; Parthiban N.; Chandrasekaran R.**
Sustainable treatment of automobile industry wastewater: integrating physicochemical and biochemical insights from microalgal phycoremediation
Frontiers in Environmental Science | VIT | **IF: 4.4**



- **Jena S.P.; Evan Prince S.**
Bergenian ciliata Root Extract Attenuates Artesunate-Induced Hepatotoxicity via Dual Modulation of Oxidative Stress and Apoptotic Signaling: An In Vitro and In Vivo Study
ACS Pharmacology and Translational Science | VIT | **IF: 4.0**
- **Chakraborty S.; Manickam V.**
Decoding the Neuroinflammatory Potential of Non-Nutritive Sweeteners Through An Integrative Computational Approach
Neurotoxicity Research | VIT | **IF: 3.9**
- **Ghosh S.; Ramaiah S.**
A dual functional inhibitory molecule to combat GyrA-ParC and associated mutants in fluoroquinolone-resistant Shigella flexneri causing shigellosis: an ML guided and quantum simulation-based in silico approach
Frontiers in Bioinformatics | VIT | **IF: 3.6**
- **Biswas R.; Sinha S.S.; Roy A.; Ramaiah S.; Anbarasu A.**
An integrated subtractive genomics and immunoinformatics approach for designing a universal multi-epitope vaccine against Brucella spp.
Frontiers in Bioinformatics | VIT | **IF: 3.6**
- **Panickar A.; Anbarasu S.; Manoharan A.; Ramaiah S.; Anbarasu A.**
Comprehensive genomics, systems, and structural assessment for novel target identification in penicillin-resistant Streptococcus pneumoniae
Frontiers in Bioinformatics | National | **IF: 3.6**
- **Jena S.P.; Nayak P.; Adithyan M.A.; Morey M.; Tharsini R.V.; Gopalakrishnan A.V.; Pal K.; Prince S.E.**
Computational design of immunogenic peptide-ligand conjugates for targeted therapy against Nipah virus infection
Frontiers in Bioinformatics | VIT | **IF: 3.6**
- **Shah M.; Arumugam S.**
Computational validation and network pharmacology reveal the cardioprotective and hypolipidemic potential of Arisaema Jacquemontii Blume via molecular docking, metadynamics, DFT, and MM/PBSA analyses
Frontiers in Bioinformatics | VIT | **IF: 3.6**
- **Perumal S.; Karuppasamy R.**
Discovery of novel peptidomimetics against HSP90-HOP interactions towards improved cancer therapeutics using machine learning strategies
Frontiers in Bioinformatics | VIT | **IF: 3.6**
- **Sekaran M.; Kuppusamy S.; Parthiban N.; Panneerselvam S.K.; Chandrasekaran R.; Thiagarajan K.**
Mechanistic insights into heavy metal bioaccumulation in tropical marine macroalgae: evidence from FTIR, XPS and multivariate modelling
Journal of Applied Phycology | National | **IF: 3.6**

RESEARCH PAPERS (AUGUST)



- **Shyam M.; Evan Prince S.**
*Network pharmacology and molecular modelling analysis of *Arctium lappa* phytochemicals in valproic acid-induced hepatotoxicity and pancreatitis*
Frontiers in Bioinformatics | VIT | IF: 3.6
- **Ganapathy A.; Krishnan S.V.; Isaac A.E.**
Protein contact network explorer: topological analysis of protein structures
Frontiers in Bioinformatics | VIT | IF: 3.6
- **Vimalkumar G.; Mandal A.K.A.**
*Repurposing natural compounds: computational evaluation of *Piper longum* alkaloids against ovarian cancer transcriptomic signatures*
Frontiers in Bioinformatics | VIT | IF: 3.6
- **Arumugam K.V.; Shanmugam V.**
*Statistical optimisation, kinetic analysis towards enhanced degradation of 17β -estradiol by TiO_2 nanoparticles from *Achromobacter xylosoxidans* and its assessment in seed priming*
Green Processing and Synthesis | VIT | IF: 3.6
- **Nandagopal P.B.; Munieswaran G.; Manickam V.**
Systems-level identification of conserved molecular drivers underlying the progression of alcoholic hepatitis and alcoholic cirrhosis and their therapeutic modulation by S-adenosyl-L-methionine
Frontiers in Bioinformatics | VIT | IF: 3.6
- **Banerjee S.; Mandal A.K.A.**
Epigallocatechin-3-gallate suppressed breast oncogenesis via the miR-27a/Wnt/ β -catenin pathway axis
Frontiers in Oncology | VIT | IF: 3.4
- **Ganapathy A.; Krishnan S.V.; Isaac A.E.**
Protein contact network explorer: topological analysis of protein structures
Frontiers in Bioinformatics | VIT | IF: 3.6
- **Vimalkumar G.; Mandal A.K.A.**
*Repurposing natural compounds: computational evaluation of *Piper longum* alkaloids against ovarian cancer transcriptomic signatures*
Frontiers in Bioinformatics | VIT | IF: 3.6
- **Arumugam K.V.; Shanmugam V.**
*Statistical optimisation, kinetic analysis towards enhanced degradation of 17β -estradiol by TiO_2 nanoparticles from *Achromobacter xylosoxidans* and its assessment in seed priming*
Green Processing and Synthesis | VIT | IF: 3.6

RESEARCH PAPERS (AUGUST)



- **Nandagopal P.B.; Munieswaran G.; Manickam V.**
Systems-level identification of conserved molecular drivers underlying the progression of alcoholic hepatitis and alcoholic cirrhosis and their therapeutic modulation by S-adenosyl-L-methionine
Frontiers in Bioinformatics | VIT | **IF: 3.6**
- **Banerjee S.; Mandal A.K.A.**
Epigallocatechin-3-gallate suppressed breast oncogenesis via the miR-27a/Wnt/ β -catenin pathway axis
Frontiers in Oncology | VIT | **IF: 3.4**
- **Routh S.; Joseph T.; Sreekumar A.; Manickam V.**
Therapeutic assessment of Nerium oleander-derived exosome-like nanoparticles against triple-negative breast cancer: a preliminary in vitro and network pharmacology approach
Frontiers in Oncology | VIT | **IF: 3.4**
- **Abedin F.; Das M.; Bishayi A.; Saha P.; Husna A.; Haque S.; Rana S.S.; Sudesh R.; Ahmad F.**
Unravelling the biological nexus of smoking and postpartum depression: a meta-analysis and functional genomics approach
Archives of Women's Mental Health | International | **IF: 3.2**

*Knowledge
Insights
➤ Impact*

EXPLORE
ANALYSE
REVIEW
CONTRIBUTE
CREATE IMPACT



*Ideas
Through
Research*

JOURNAL PUBLICATIONS (REVIEW PAPERS)

*Review
Learn
Share
Advance*

*A
Healthier,
Brighter
Tomorrow
Through
Research*



Review papers (June)



- **Riyamol; Mittal A.; Ahmad F.; Haque S.; Chengaiyan J.G.; Yadav D.K.**
“A review of extraction methods, downstream processing, and green recovery innovations of microbial extracellular polysaccharides”
Journal: International Journal of Biological Macromolecules | **Collaboration:** International | **Impact Factor:** 8.5
- **Kumar S.; Kumar V.; Darnal S.; Singh D.**
“Therapeutic recombinant L-asparaginases: a comprehensive review and way forward”
Journal: Critical Reviews in Biotechnology | **Collaboration:** International | **Impact Factor:** 7.7
- **Dharshini L.C.P.; Mandal A.K.A.**
“Transferrin-functionalized liposomes for targeted breast cancer therapy: Mechanistic insights, conjugation strategies, and translational evidence”
Journal: Biomedicine and Pharmacotherapy | **Collaboration:** VIT | **Impact Factor:** 7.5
- **K L.; Sundararajan V.**
“Immunological and pathological roles of Siglecs: a molecular review”
Journal: Frontiers in Immunology | **Collaboration:** VIT | **Impact Factor:** 5.9
- **Jalendiran H.; Roy A.; Sathiyarayanan S.; Geethanarayanan S.; Selvam A.G.K.; Vijayasekaran H.; Ramaiah S.; Anbarasu A.**
“Essential oils as nature-engineered antifungals: a comprehensive review of pharmacological mechanisms, drug synergism, and advanced formulation strategies”
Journal: Frontiers in Pharmacology | **Collaboration:** VIT | **Impact Factor:** 4.8
- **Mohanty C.; Das P.K.; Kaur R.; Selvaraj C.I.**
“Sustainable strategies for remediation of Cr(VI) contaminated soil and water bodies: exploring the potential of invasive bamboo and its derivatives”
Journal: Frontiers in Plant Science | **Collaboration:** National | **Impact Factor:** 4.8
- **Ramalingam P.S.; Ilma B.; Hussain M.S.; Jakhmola V.; Fatima R.; Rana A.J.; Agrawal M.; Ashique S.; Mekala J.R.; Arumugam S.**
“The central role of EMT in tumor progression: mechanistic drivers, biomarker discovery, and therapeutic horizons”
Journal: Frontiers in Pharmacology | **Collaboration:** National | **Impact Factor:** 4.8
- **Kamal Raj D.; Saravanan S.K.; Viswanathan A.; Elavarasu S.M.; Nanda Kumar S.K.; Sridharan K.S.; Govindarajan A.; Krishnan S.; Ramasamy M.**
“Pathotype-specific antimicrobial resistance in diarrheagenic Escherichia coli: gene variants, resistance mechanisms, and evolution of treatment strategies”
Journal: Frontiers in Microbiology | **Collaboration:** National | **Impact Factor:** 4.5



- **David E.M.; Parthasarathi T.**
“Soil microbial processes shaping seed performance: linking soil microbiomes to sustainable agriculture”
Journal: Frontiers in Microbiology | **Collaboration:** VIT | **Impact Factor:** 4.5
- **Joshi G.; Rani S.; Bharti D.; Panda N.; Chavan P.; Mathpal S.; Ramaiah S.; Anbarasu A.**
“The role of the gut microbiome in antibiotic-driven antimicrobial resistance”
Journal: Frontiers in Microbiology | **Collaboration:** VIT | **Impact Factor:** 4.5
- **Gujrathi S.; C S.; Hareesh S.; Sudesh R.; Ahmad F.**
“Impact of kangaroo mother care on maternal postpartum depression: a systematic review and meta-analysis of controlled trials”
Journal: Pediatric Research | **Collaboration:** VIT | **Impact Factor:** 3.1
- **Antony B.T.; Osborne J.W.; Benjamin L.K.**
“Antibiotic: a boon to mankind and doom to the environment – an insight on biological and non-biological degradation processes”
Journal: Frontiers in Microbiology | **Collaboration:** VIT | **Impact Factor:** 5.8
- **Sanjana A.; Viswanathan P.**
“From dysbiosis to tumorigenesis: microbiome-derived metabolites as emerging cancer biomarkers”
Journal: Frontiers in Microbiology | **Collaboration:** VIT | **Impact Factor:** 5.8
- **Mukherjee D.; Raghul Kannan S.; Tamizhelvi R.**
“N-terminal modifications as fate switches in neurodegeneration: a mechanistic review”
Journal: Frontiers in Aging Neuroscience | **Collaboration:** VIT | **Impact Factor:** 5.2
- **Pattapulavar V.; Muthusamy S.; Ramanujam S.; Subburaj S.; Kasilingam N.; Rajamani R.P.; Deepankumar K.; Christopher J.G.**
“Secondary metabolites from mangrove associated algae: A sustainable source of next-generation therapeutics”
Journal: Biocatalysis and Agricultural Biotechnology | **Collaboration:** National | **Impact Factor:** 4.6
- **Siddarth Ragunagagam G.; Anbarasu A.; Kodiveri Muthukaliannan G.**
“Is Fusobacterium nucleatum the key mediator between oral infections and systemic diseases? Mechanistic insights and therapeutic implications”
Journal: Gut Microbes | **Collaboration:** VIT | **Impact Factor:** 15.3
- **Jahnavi S.; Devendu K.V.; Saha S.; Dey P.; Osborne W.J.**
“Marine bacteria and fungi: the hidden treasure of oceans in the biodegradation of microplastics and hydrocarbons integrated with omics technologies”
Journal: Archives of Toxicology | **Collaboration:** VIT | **Impact Factor:** 10.9



- **Sharma S.; Vishnu D.**
“Metal-organic frameworks as robust adsorbents for microplastic removal? a review of synthesis strategies, mechanistic insights and computational studies”
Journal: Journal of Hazardous Materials Advances | **Collaboration:** VIT | **Impact Factor:** 9.1
- **Chauhan D.S.; Mishra D.; Hamid; Sharanagat V.S.; Jaiswal A.K.**
“Plant and algal mucilage: a comprehensive review on sources, extraction, functional properties, health benefits, and emerging trends in food”
Journal: Sustainable Food Technology | **Collaboration:** International | **Impact Factor:** 9.0
- **Jagannath M.; Sunderesan A.; Gupta M.K.; Sudandiradross C.**
“Opening the black box: insights into ubiquitin-mediated control of innate antiviral immunity and AI-enhanced therapeutics”
Journal: Frontiers in Immunology | **Collaboration:** VIT | **Impact Factor:** 7.0
- **Antony B.T.; Osborne J.W.; Benjamin L.K.**
“Antibiotic: a boon to mankind and doom to the environment – an insight on biological and non-biological degradation processes”
Journal: Frontiers in Microbiology | **Collaboration:** VIT | **Impact Factor:** 5.8
- **Sanjana A.; Viswanathan P.**
“From dysbiosis to tumorigenesis: microbiome-derived metabolites as emerging cancer biomarkers”
Journal: Frontiers in Microbiology | **Collaboration:** VIT | **Impact Factor:** 5.8
- **Mukherjee D.; Raghu Kannan S.; Tamizhelvi R.**
“N-terminal modifications as fate switches in neurodegeneration: a mechanistic review”
Journal: Frontiers in Aging Neuroscience | **Collaboration:** VIT | **Impact Factor:** 5.2
- **Pattapulavar V.; Muthusamy S.; Ramanujam S.; Subburaj S.; Kasilingam N.; Rajamani R.P.; Deepankumar K.; Christopher J.G.**
“Secondary metabolites from mangrove associated algae: A sustainable source of next-generation therapeutics”
Journal: Biocatalysis and Agricultural Biotechnology | **Collaboration:** National | **Impact Factor:** 4.6
- **Ghosh P.; Saxena R.; Anuradha; Singh R.K.; Srivastava V.; Bharti D.; Mitra A.**
“A comprehensive review on Elaeocarpus ganitrus: phytochemical potential and sustainable applications in food systems”
Journal: Frontiers in Sustainable Food Systems | **Collaboration:** National | **Impact Factor:** 4.1
- **Bryan E.J.; Vijayanand V.; Li X.P.; McLaughlin J.E.; Pierce M.; Dutta A.; Turner N.E.**
“Biophysical and Biochemical Assays for Screening Small Molecule Inhibitors Targeting Toxin–Ribosome Interactions”
Journal: Toxins | **Collaboration:** International | **Impact Factor:** 4.0



- **Mondal O.; Khatun M.; Lawarde A.; S S.L.; Sundararajan V.; Salumets A.; Modhukur V.**
“Integrating artificial intelligence and multi-omics data for precision oncology in endometrial cancer: a narrative review”
Journal: Functional and Integrative Genomics | **Collaboration:** International | **Impact Factor:** 4.0
- **Kedari N.; Dey U.; Sreenija D.; Paul S.; Shakya S.; Biswas R.; Ramaiah S.; Anbarasu A.**
“AI/ML-enabled multi-omics integration of host genetics, immunity, and the gut microbiome in Crohn's disease: From diagnosis to theranostics”
Journal: SLAS Technology | **Collaboration:** VIT | **Impact Factor:** 3.7
- **Kanipandian N.; Sundarraj S.; Deepankumar K.; Jayanthi K.; Kannan S.; Singh S.K.; Narayanan A.S.**
“Nanomedicine in human disease management: A comprehensive review of advances in diagnosis, targeted therapy, clinical translation, and future perspectives”
Journal: Next Nanotechnology | **Collaboration:** National | **Impact Factor:** 3.7
- **Kalidass B.; Murugesan K.; Shanmugam A.; Kaveri P.K.; Lakshmanan D.K.**
“Exosome-mediated immune modulation in rheumatoid arthritis and its role in synovial inflammation and autoimmune amplification”
Journal: Cellular Immunology | **Collaboration:** International | **Impact Factor:** 3.3
- **Lakshmanan D.K.; Thilagar S.; Shanmugam A.; Kalidass B.; Ravichandran G.**
“Defective lysosomal acidification promotes chondrocyte senescence and autophagic flux stagnation in geriatric osteoarthritis”
Journal: Tissue and Cell | **Collaboration:** National | **Impact Factor:** 3.1
- **K R.; Thomas S.; Dubey N.; Dutta A.; H P S.**
A Comprehensive Review of Electrochemical Biosensors for the Detection of Breast Cancer through Protein Biomarkers
Analytical Chemistry | International | **IF:** 7.3
- **Nair M.C.; Chandel K.; S.S.; Premraj S.; U.N.; M.G.**
Decoding the immunological triad of TLRs, B1 cells, and feto-maternal microchimerism in pre-eclampsia pathogenesis: a narrative review
Frontiers in Immunology | VIT | **IF:** 7.0
- **Kumari A.; Rasool M.**
Exploring the intricate relationship between IL-1 β and IL-18 in the context of osteoarthritis
Frontiers in Immunology | VIT | **IF:** 7.0
- **Pillai V.; Rasool M.**
Meprin proteases in cutaneous homeostasis and psoriasis: pathophysiological mechanisms and therapeutic prospects
Frontiers in Immunology | VIT | **IF:** 7.0

REVIEW PAPERS (AUGUST)



- **Mathew A.A.; Rithvik A.; Rasool M.**
Targeting the synovial engine: next-generation engineered immune cells to eradicate pathogenic FLS in rheumatoid arthritis, with safety-first, selective designs
Frontiers in Immunology | VIT | IF: 7.0
- **Dubey N.; Shree S.; Prakash S.; Subramanian V.; Syama S.; Kumar S.**
Phytomelatonin as a key regulator of drought stress adaptation: signaling networks, microbial interactions, and biotechnological potential
Frontiers in Plant Science | VIT | IF: 5.9
- **Keerthi V.; Ravindran P.; Kaliyur S.; Tuttagunta S.U.S.; Mathpal S.; Joshi T.; Ramaiah S.; Anbarasu A.**
A comprehensive review of emerging therapeutic strategies against methicillin-resistant Staphylococcus aureus
Frontiers in Microbiology | VIT | IF: 5.8
- **Panda T.K.; Sheriff I.; G J.P.; Neerugatti K.R.E.**
Low-power NIR-mediated photothermal and photodynamic therapy as a synergistic strategy against superbugs
Frontiers in Microbiology | VIT | IF: 5.8
- **Raali R.; Sampath N.; R.S.G.; J.K.T.; Vardhan J.H.; Shenbagam B.J.; Geethanjali V.; Kumar S.V.; Shanmuga Doss S.**
Unlocking the health potential of fermented foods: insights from traditional Indian diets
Frontiers in Microbiology | VIT | IF: 5.8
- **Valathoor M.N.; Rajan A.P.**
Virulence and antimicrobial resistance in Salmonella enterica serovar Typhimurium: a One Health perspective on therapeutic and vaccine targets
Frontiers in Microbiology | VIT | IF: 5.8
- **Keerthi V.; Ravindran P.; Kaliyur S.; Tuttagunta S.U.S.; Mathpal S.; Joshi T.; Ramaiah S.; Anbarasu A.**
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Unlocking the health potential of fermented foods: insights from traditional Indian diets
Frontiers in Microbiology | VIT | IF: 5.8

REVIEW PAPERS (AUGUST)



- **Valathoor M.N.; Rajan A.P.**
Virulence and antimicrobial resistance in Salmonella enterica serovar Typhimurium: a One Health perspective on therapeutic and vaccine targets
Frontiers in Microbiology | VIT | IF: 5.8
- **Mathew A.A.; Raheja R.; Alex P.T.**
Breaking the relapse barrier: innovative approaches to improve CAR T-cell efficacy by targeting leukemic stem cells (LSCs) and measurable residual disease (MRD) in acute myeloid leukemia
International Immunopharmacology | National | IF: 5.6
- **Biju R.; Osborne W.J.**
Virulence and antimicrobial resistance in Salmonella enterica serovar Typhimurium: a One Health perspective on therapeutic and vaccine targets
Frontiers in Pharmacology | VIT | IF: 5.4
- **Veeman M.; Jeyakumar D.; KN K.; T P.K.; Pearl S.; Ramaiah S.; Anbarasu A.**
Microbial bacteriocins as natural biopreservatives: monitoring strategies for a sustainable food system
Applied Food Research | VIT | IF: 5.4
- **Anbu E.; Odukkathil G.**
Microalgal CO₂ sequestration for circular economy: Exploring AI-based urban emission mapping, strain selection, and cultivation optimization
Bioresource Technology Reports | VIT | IF: 5.0
- **S.S.G.; Nayak S.**
Protein adsorption at material interface: mechanistic design framework for engineering ceramic scaffolds for bone repair applications
BioMedical Engineering Online | VIT | IF: 4.6
- **Manam M.; Srivatsa K.S.; Mishra A.; Paulraj Gundupalli M.**
A Comprehensive Review on Metabolomics-Guided Metabolite Production in Plant Tissue Culture: Integrating Omics and Synthetic Biology for Enhanced Yields
ACS Synthetic Biology | National | IF: 4.5
- **Murugasridevi K.; Gunasekaran H.; Kirubhadharsini B.L.; Mahendhiran M.; Renganathan P.**
Biological control of Fall Armyworm, Spodoptera frugiperda: Lessons from Lab and On-Site Investigations
Biological Control | International | IF: 4.0
- **Sandhiya S.; Ghosh P.; Dishri M.**
Plant-based functional foods as a translational framework integrating sustainability, technology and health for nutritional security
Discover Food | VIT | IF: 3.6

REVIEW PAPERS (AUGUST)



- **P.K.; Mathew A.S.; Ghosh P.; H.P.S.**
A review on in-silico analysis of immune cell trafficking and interactions with the tumour microenvironment
Frontiers in Oncology | National | IF: 3.4
- **Maiti S.; Reji A.R.; Senthil S.; R.R.; Solairaju R.; Kunjumon R.; Ghosh P.; H.P.S.; Sadhukhan P.; Dutta A.**
Inflammatory myofibroblastic tumour: unravelling the interplay of inflammation, kinase signalling, and therapeutic resistance
Frontiers in Oncology | International | IF: 3.4
- **Parganiha D.; Joshi M.; Sankarasubramanian S.; Pandit S.V.; Nagaraj H.; Perumal N.**
Unmasking biomarkers in small cell lung cancer: implication for precision oncology
Frontiers in Oncology | VIT | IF: 3.4
- **Sandhiya S.; Ghosh P.; Dishri M.**
Plant-based functional foods as a translational framework integrating sustainability, technology and health for nutritional security
Discover Food | VIT | IF: 3.6
- **P.K.; Mathew A.S.; Ghosh P.; H.P.S.**
A review on in-silico analysis of immune cell trafficking and interactions with the tumour microenvironment
Frontiers in Oncology | National | IF: 3.4
- **Maiti S.; Reji A.R.; Senthil S.; R.R.; Solairaju R.; Kunjumon R.; Ghosh P.; H.P.S.; Sadhukhan P.; Dutta A.**
Inflammatory myofibroblastic tumour: unravelling the interplay of inflammation, kinase signalling, and therapeutic resistance
Frontiers in Oncology | International | IF: 3.4
- **Parganiha D.; Joshi M.; Sankarasubramanian S.; Pandit S.V.; Nagaraj H.; Perumal N.**
Unmasking biomarkers in small cell lung cancer: implication for precision oncology
Frontiers in Oncology | VIT | IF: 3.4
- **Ravi N.; Sankar R.; Mathavan A.; Rayala S.K.; Venkatraman G.; Dev B.**
Emerging biomarkers in breast fibroadenoma: implications for differential diagnosis, malignant transformation, and precision medicine
Molecular Biology Reports | National | IF: 3.2

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Today's
Learners
Tomorrow's
Leaders

STUDENTS AND RESEARCH SCHOLAR'S ACHIEVEMENTS



VIT POST THESIS FELLOWSHIP

Hearty Congratulations!!!

POST THESIS FELLOWSHIP- SPECIAL INCENTIVE



Dr. SATHVIKA K

EMP ID: 24371

Assistant Professor (Junior)

Guide: Prof.

Dr. SUNEETHA V

**Professor Higher Academic
Grade (DEAN SBST)**



Dr. PRASANNA

SRINIVASAN R

EMP ID: 24373

**Assistant Professor
(Junior)**

Guide: Dr. SIVAKUMARA

Professor Grade 2



Dr. AMRUTHA V M

EMP ID: 24364

**Assistant Professor
(Junior)**

Guide: Dr. R

SUDHAKARAN

Associate Professor Senior



STUDENT'S ACHIEVEMENT

Team iGEM, has secured the First Place at the prestigious All India iGEM Meet (AIIM) 2026, held at IIT Madras chennai on 1-2 August 2026

Team Members (iGEM):

1. Srinidhi Kannan – 23BBT0014 - Team Lead
2. Kunjal Ningoo – 23BBT0157 - Team Lead
3. Riya Shadija – 23BBT0104 - Team Lead
4. Hitanshi Ghiya – 23BBT0115
5. Nyla Ann Matthew – 23BBT0013
6. Anshika Mamtani – 23BBT0105
7. Panimalar E. – 24BBT0066
8. Anahita Munshi – 24BBT0151
9. Swattika Roy – 24BBT0140
10. Bidushi Sarangi – 24BBT0213
11. Aritra Das Kanungo – 23BBT0013
12. Suganth Gopinath Sangeetha – 23BBT0077
13. Subranshu Chattopadhyay – 24BBT0267
14. Ayush Bera – 24BBT0188
15. Akhurath Ganapathy – 24BBT0138
16. Bhaavya Singh – 24MSI00151



We sincerely acknowledge the invaluable guidance and continuous support of the Faculty Coordinator Dr. Suneetha V (10832), Professor & Dean, SBST and Dr. Shanthi V, (12147), Professor & HOD, SBST whose mentorship significantly contributed to this achievement.

We extend our heartfelt congratulations to **Team iGEM** on this commendable achievement and wish them continued success in their future endeavors.





STUDENT'S ACHIEVEMENT

Ms. Brunda (Reg. No. 26MSG0043) has been conferred the Special Recognition Award, along with a cash prize of ₹70,000, at the FKCCI INNO MANTHAN Awards 2026 for her innovative project, *Green Shield Phage Stock Center (GSPSC)*. The project focuses on the application of bacteriophages for the sustainable management of bacterial diseases in agriculture.





STUDENT'S ACHIEVEMENT

Heartiest congratulations to Mr. Staines A. (26MSI0155) on being part of the VIT Men's Hockey Team that emerged as the Winners of the District-Level Inter-Collegiate Tournament under the Tamil Nadu Chief Minister's Trophy 2026, organized by SDAT, Vellore, on 15 September 2026.



Heartiest congratulations to Ms. Monalika Saha (24BBT0036) on winning Bronze Medal in the District-Level Inter-Collegiate Swimming Competition under the Tamil Nadu Chief Minister's Trophy 2026, organized by SDAT, Vellore, on 12 September 2026.





STUDENT'S ACHIEVEMENT

Heartiest congratulations to Ms. Amrutha V (24BBT0109) and Ms. Madhumitha Balaji (24BBT0133) on receiving the Best Poster Presentation Award at ICEAHLS 2026, organized by the Agricultural College and Research Institute, Madurai, on 27–28 August 2026.

Their research work, “Optimization Studies to Enhance the Production of Methylcobalamin from Freshwater *Streptomyces olivaceus* NK11,” was carried out under the guidance of Dr. Subathradevi.





RESEARCH SCHOLAR'S ACHIEVEMENT

Sl No.	Name of the Scholar and Guide	Recognition
1.	Mr. Subhajit Sarkar (23PHD0159) guided by Dr. Kavitha Thirumurugan	Excellence Award for Best Poster at the International Conference on Biomaterials, Bioengineering and BioTheranostics 2026 (BioMET) organized by CBCMT, VIT
2.	Mr. Gutti Pavan (20PHD0720) guided by Dr. Debasish Mishra	First prize on his oral presentation in the recently held international conference on "Recent Innovations in Advanced Materials" held from July 8- 10, 2026, organized by VIT-AP University, Amaravati, Andhra Pradesh, India.
3	Mr. Subhashis Dash (20PHD0347), Guided by Dr. Debashish Mishra	Awarded with the 'Best Poster Presentation Award' at the International Conference on Transforming Medical science And Technology through Tissue Engineering & Regenerative medicine 2026 (TransMATTER 2026), 17th Annual Meeting of STERMI Organized by SMST, IIT Kharagpur which was held from 5th-6th September 2026.





RESEARCH SCHOLAR'S ACHIEVEMENT





RESEARCH SCHOLAR'S ACHIEVEMENT

Heartiest congratulations to Mr. Saravanan R (22PHD0773) and his guide Dr. Jeevitha G.C. on receiving the prestigious “Shri Nilesh Patel (N K Proteins) Innovation Award for Cottonseed and Cottonseed Oil Supply Chain”, along with a ₹20,000 cash prize.



CONGRATULATIONS

We are pleased and delighted to announce that the following research scholars from the **School of Bio Sciences and Technology (SBST)**, **VIT, Vellore**, have been awarded the prestigious **AICTE Doctoral Fellowship (ADF)** in recognition of their academic excellence and research potential.

AICTE Doctoral Fellowship (ADF)

Sl. No.	Registration No.	Pre.	Name	Guide Name
1	25PHD0308	Ms.	MEERA MATHEW	Dr. Mythili S
2	25PHD0292	Ms.	NAVYA KRISHNA	Dr. Deepa Sankar P
3	25PHD0333	Mr.	DASHRATH SHRIWAS	Dr. Rashmi Kataria
4	25PHD0416	Ms.	REHANA K	Dr. Syama H P

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	Shraddha Sanjiv	Dr. Suthindhiran K
2	Aarthy Y	Dr. Radha Saraswathy
3	Joel Augustine	Dr. Jayanthi A
4	Parmar Keshri Nandan	Dr. Jayanthi S
5	Hadkar Vrushali Manoj Vaishali	Dr. Immanuel Selvaraj C
6	Harshini S	Dr. Mohana Priya A
7	Amrutha V M	Dr. Sudhakaran R
8	Manisha Shah	Dr. Sivakumar A
9	Priyadharshini S	Dr. Arnold Emerson
10	Prasanna Srinivasan R	Dr. Sivakumar A
11	Govada Pravallika	Dr. Rajasekaran R
12	Devi Soorya Narayana S	Dr. Vino S
13	Raja Priya R	Dr. Kanagavel Deepankumar
14	Arghya Chakravorty	Dr. Vimala R
15	Logeshwaran A	Dr. Sunita Nayak
16	Sadhana S	Dr. Rajiniraja M
17	Prarthna Chatterjee	Dr. Satarupa Banerjee
18	Janani M	Dr. Siva R
19	Mohammed Naveez V	Dr. Anand Prem Rajan
20	Nandha Kumar S	Dr. Anand Prem Rajan
21	Mohammed Suhaan	Dr. Niroj Kumar Sahu
22	Vijay Elakkya	Dr. Krishnan V
23	Prathap S	Dr. Sabina E P
24	Uma V	Dr. Rajiniraja M
25	Sujatha E	Dr. Sivakumar A
26	Jishnu R Nair	Dr. Raunak Kumar Das
27	Karthik T	Dr. Jayasri M.A.

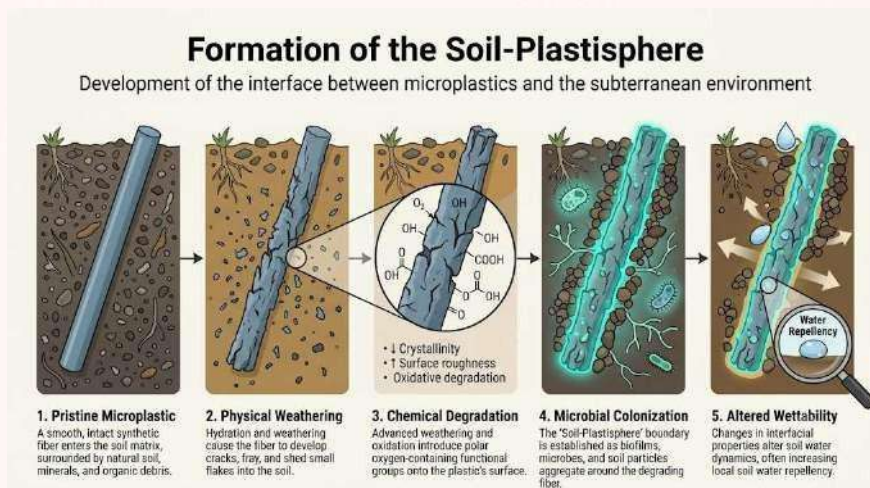


JOURNAL CLUB

Sl No.	Name	Title of the article
1	Mr. Indranil Banerjee Reg. No: 24PHD0327	Novel mutations in RASGRP2, which encodes CalDAG-GEFI, abrogate Rap1 activation, causing platelet dysfunction”
2	Ms.Nanditha M Reg. No: 24PHD0365	Simultaneous biodegradation of λ -cyhalothrin pesticide and Vicia faba growth promotion under greenhouse conditions
3	Mr. Sudip Prasad Jena Reg. No: 24PHD0373	Rational designing of peptide-ligand conjugates-based immunotherapy for the treatment of complicated malaria
4	Ms. Kollannur Anna Maria Reg. No: 24PHD0391	Phytochemical Composition and Inhibitory Effects of Curcuma angustifolia Leaves Extracts Against α -Amylase and α -Glucosidase Enzymes Associated With Hyperglycaemia: In Vitro and In Silico Analysis
5	Ms. Tonio Ranjitha Amritha N Reg. No: 24PHD0338	Synthesis and characterization of silver nanoparticles loaded with carboplatin as a potential antimicrobial and cancer therapy
6	Ms. Kollannur Anna Maria Reg. No: 24PHD0391	Phytochemical Composition and Inhibitory Effects of Curcuma angustifolia Leaves Extracts Against α -Amylase and α -Glucosidase Enzymes Associated With Hyperglycaemia: In Vitro and In Silico Analysis
7	Ms. Karnam Veena Reg. No: 24PHD0423	Comprehensive in silico and experimental study of syringaldehydetriarylpyridine hybrids as dual-action anticancer and antibiofilm agents
8	Ms. Siva Bharathi V Reg. No: 24PHD0428	Fenugreek-derived exosome-like nanovesicles containing bioavailable phytoferritin for the management of iron deficiency anemia
9	Ms. Angelin Grace S V Reg. No: 24PHD0435	Lipopolysaccharide-induced systemic inflammation alters courtship ultrasonic vocalizations in male mice
10	Ms. Greeshma M B Reg. No: 24PHD0436	In vitro and in vivo biocompatibility and bioactivity of bioceramic repair materials

STUDENTS' CORNER

THE SOIL-PLASTISPHERE: UNDERSTANDING THE THREAT TO AGRICULTURAL LANDS



In terrestrial settings, microplastics have become a common and persistent pollutant. By 2050, an estimated 33 billion tons of plastic garbage would have accumulated worldwide, with a large portion of it finding its way into the soil through composting, landfiling, and agricultural operations. Researchers are studying the "soil-plastisphere" which is defined as the physicochemical and biological interface extending from the plastic surface into the surrounding soil matrix to gain a better understanding of its long-term ecological impact. A recent research assessed the weathering and long-term changes in soil interfacial characteristics caused by microplastics made of polypropylene (PP) and polyethylene (PE).

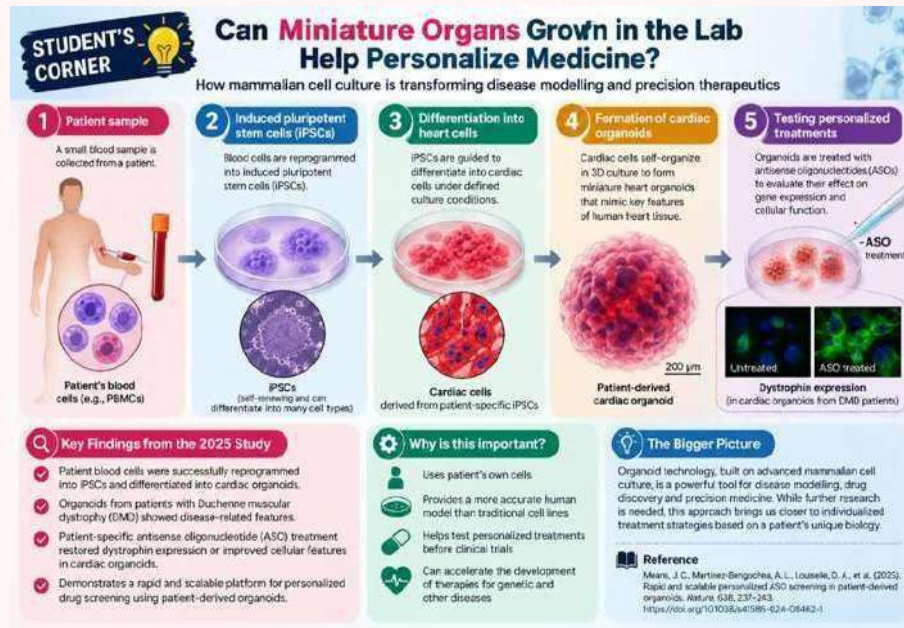
As the plastic ages in the soil, the invisible physical forces that hold it together begin to weaken and fail. Surprisingly, the plastic's surface begins to accept moisture rather than reject it as it degrades due to changes in its chemical composition. But the soil just next to the plastic that "plastisphere" boundary reacts in the exact opposite way, abruptly pushing water away. The decomposing plastic eventually splinters into even smaller bits, dispersing throughout the soil, totally altering the way the ground processes water, and producing bizarre new tiny ecosystems.

Understanding the soil-plastisphere is crucial for agriculture because, as microplastics weather, they change the wettability and structural stability of the soil, endangering the general health of the soil by interfering with vital water flow and altering the movement of nutrients and harmful pollutants through farming ecosystems. Lastly, this study offers important physicochemical information on the growth and behavior of the soil-plastisphere. The results show that soil wettability and interaction energies are considerably changed by the gradual breakdown of microplastics. By changing the dynamics of water flow, nutrient cycling, and pollutant movement throughout agricultural and natural ecosystems, these tiny changes may have an effect on the overall health of the soil.

Source: Sepehrnia, N., Azimzadeh, B., Charlton, L. *et al.* Soil-plastisphere interfacial properties enable decoding microplastics behaviour in the environment. *Commun Earth Environ* (2026). <https://doi.org/10.1038/s43247-026-03916-y>

STUDENTS' CORNER

CAN MINIATURE ORGANS GROWN IN THE LAB HELP PERSONALIZE MEDICINE?



What if scientists could grow miniature versions of a patient's organs in the laboratory to investigate disease and test potential treatments? This idea is becoming a reality through organoid technology, an advanced application of mammalian cell culture. Organoids are three-dimensional, tissue-like structures developed from stem cells or other suitable cells. Under carefully controlled culture conditions, these cells can organize into structures that reproduce selected features of real organs, providing researchers with valuable models for studying human diseases.

A 2025 study published in *Nature* by Means et. al demonstrated how patient-derived organoids could support personalized treatment research. The researchers developed a platform to generate induced pluripotent stem cells from patient blood cells and differentiate them into specialized cellular models, including cardiac organoids. They used these models to evaluate antisense oligonucleotides (ASOs)—short, synthetic molecules designed to influence RNA processing or gene expression. In cardiac organoids derived from patients with Duchenne muscular dystrophy (DMD), the researchers demonstrated that patient-specific ASO treatment could restore dystrophin expression or improve disease-associated cellular features. Their findings highlight how mammalian cell culture can help evaluate treatments tailored to individual genetic variations before further clinical investigation.

Although this approach remains a research and preclinical platform, it illustrates the growing potential of organoid technology in precision medicine. By bringing together stem-cell biology, molecular genetics and advanced cell culture, scientists are moving closer to developing more individualized approaches to understanding and treating disease. The future of medicine may begin in a culture dish—with cells that help researchers understand each patient's unique biology.

Source: Means, J.C., Martinez-Bengochea, A.L., Louiselle, D.A. et al. Rapid and scalable personalized ASO screening in patient-derived organoids. *Nature* 638, 237–243 (2025). <https://doi.org/10.1038/s41586-024-08462-1>

STUDENTS' CORNER

SINTERED POULTRY-BASE WASTE AS LOW-COST ADSORBENT FOR THE UPTAKE OF CONGO RED: INSIGHT INTO KINETICS, ISOTHERMS AND THERMODYNAMICS



The improper disposal of poultry-processing waste and the discharge of dye-containing wastewater pose significant environmental challenges, as synthetic dyes such as Congo red are persistent pollutants that can adversely affect aquatic ecosystems and water quality. Conventional dye-removal methods may involve high operational costs and generate secondary waste, highlighting the need for sustainable and economical treatment alternatives. To address this problem, the study investigated the use of poultry-based waste as a low-cost adsorbent for Congo red removal. The study titled “Sintered Poultry-Base Waste as Low-Cost Adsorbent for the Uptake of Congo Red: Insight into Kinetics, Isotherms and Thermodynamics” investigates the use of poultry-based waste as a sustainable and economical adsorbent for removing Congo red dye from wastewater. In this study, poultry waste collected from local poultry-processing outlets was washed, dried, and thermally treated at 650 °C for 2 hours to produce sintered poultry-based waste (SPBW), which was compared with untreated poultry-based waste (PBW). The adsorbents were characterized using FTIR, SEM-EDS, XRD, BET surface area analysis, point of zero charge measurements, and thermogravimetric analysis. The results demonstrated that sintering improved the surface properties, porosity, and accessibility of adsorption sites, increasing the specific surface area from 67.92 to 168.43 m²/g. SPBW exhibited a maximum adsorption capacity of 60.23 mg/g, compared with 40.16 mg/g for PBW, and achieved adsorption equilibrium within 120 minutes, while PBW reached equilibrium within 100 minutes under the reported optimum pH conditions of 4 and 2, respectively. Adsorption kinetics were predominantly described by the pseudo-first-order model, while the Langmuir isotherm best fitted PBW and the Freundlich isotherm best fitted SPBW. Thermodynamic analysis revealed that adsorption was spontaneous and endothermic, with enthalpy changes of 16.93 kJ/mol for PBW and 32.55 kJ/mol for SPBW. The adsorption process was attributed to several possible interactions, including electrostatic attraction, hydrogen bonding, π - π interactions, and intraparticle diffusion. Furthermore, desorption experiments conducted over six cycles indicated that the adsorbents, particularly SPBW, possessed promising regeneration and reuse potential. Overall, the study demonstrates that thermal treatment can enhance the performance of poultry-based waste as a low-cost, reusable adsorbent for dye-contaminated wastewater, providing a sustainable waste-valorization approach for environmental pollution control.

Source: Din, S.U., Ibrahim, A., Shawabkeh, A. *et al.* Sintered poultry-base waste as low-cost adsorbent for the uptake of Congo red: insight into kinetics, isotherms and thermodynamics. *Sci Rep* **16**, 10270 (2026). <https://doi.org/10.1038/s41598-026-40647-8>

GUEST LECTURES

INTERNATIONAL GUEST LECTURE

S. No	Lecture title	Faculty Coordinator(s)	Resource person	Designation and Organisation	Date
1	Main results for the landmarking keller-segel models	Dr. Jeevitha G C, Dr. Dhanya V, Dr. Sreeja S	Dr. Giuseppe Viglialoro	Associate Professor, University of Cagliari, Italy	22.07.2026
2	Analytical Biotechnology tools for Environmental conservation: Recent advances	Dr. Anand Prem Rajan	Bharath Raman Ayyaraju	Founder, Global Green Conservation connect (GGCC), University of the west of England (Bristol), UK	27.07.2026
3	Emerging analytical techniques for Environmental conservation and sustainability	Dr. Anand Prem Rajan	Mr. Bharath Raman Ayyaraju	Founder, Global Green Conservation connect (GGCC), University of the west of England (Bristol), UK	27.07.2026



ALUMNI GUEST LECTURE

S. No	Lecture title	Faculty Coordinator(s)	Resource person	Designation and Organisation	Date
1	Metagenomics and Metabolomics in Environmental Biotechnology	Dr. S. Mythili, Dr. Sangeetha Subramanian	Dr. L. Karthik, Ph.D, PDF, FLS (08PHD077)	Founder and CEO, Arqgene, Vellore, TN, India	24.09.2026

GUEST LECTURES

S. No	Lecture title	Faculty Coordinator(s)	Resource person	Designation and Organisation	Date
1	From food to medicine: The role of nutraceuticals in cancer management	Dr. A. Sivakumar	Dr. Purushothaman Balakrishnan, Ph. D., CLAS (FELASA-Europe)	Chief Scientist, Founder & CEO, TanBio R & D solution, Thanjavur & Thiruvarur, TamilNadu, INDIA	31.07.2026
2	Mechanism and kinetics of Enzyme action	Dr. Venkat kumar S & Dr. Rameshpathy M	Dr. V Ramesh	Professor, Dept. of Chemical Engineering, Manipal institute of Technology, Manipal-576104, Karnataka	31.07.2026
3	Nutraceutical-Based strategies for cancer prevention and treatment	Dr. A. Sivakumar	Dr. Purushothaman Balakrishnan, Ph. D., CLAS (FELASA-Europe)	Chief Scientist, Founder & CEO, TanBio R & D solution, Thanjavur & Thiruvarur, TamilNadu, INDIA	31.07.2026



GUEST LECTURES

S. No	Lecture title	Faculty Coordinator(s)	Resource person	Designation and Organisation	Date
4	Molecular Diagnosis in cancer: High precision detection of Genetic alterations	Dr. Ganesh V	Dr, Vaishnavi B, Ph.D	Research Scientist, Molecular Diagnostics, Athenese Dx Pvt, Ltd, Chennai	04.09.2026
5	Advances in plant tissue culture techniques	Dr. Ponraj P, Dr. Sunantha G, Gobi saravanan K	Dr. Sivalingam Elayabalan	Technical Director, Sankar Biotech, Hosur, TamilNadu 635103	04.09.2026
6	Rice Diversity for a sustainable future	Dr. Godwin Christopher J	Mr. Suriyanarayanan P	O/o of Assistant Director of Agriculture, Govt. of TamilNadu, Ranipet District	08.09.2026
7	Recent advances in Industrial Biotechnology	Dr. K.V Bhaskara Rao	Mr. K.N. Purna Chandra Rao	Head, Quality Assurance and Process Development, Tek Biosciences (P) Ltd, Chennai	11.09.2026
8	Microbes as Biofactories: From Discovery to Industrial applications	Dr. K.V Bhaskara Rao	Dr. Satya N L K	Chief Scientific Officer, Sowbhagya Biotech Pvt Ltd, Secunderabad	11.09.2026
9	From Gene expression to Gene silencing: Advanced applications of Qpcr and RNAi in Molecular Research	Dr. Siva R	Dr. Kannan Pachamuthu	Assistant Professor, Indian Institute of Science Education and Research (IISER)	17.09.2026
10	Nano Bioengineered technologies for Translational Biomedical devices	Dr. Rohit, Rashmi kataria	Dr. Pranjal Chandra	Associate Professor, School of Biochemical Engineering, Indian Institute of Technology (BHU), Varanasi, India	25.09.2026
11	Gall bladder cancer and ethical treatment measures	Dr. Rohit, Rashmi kataria	Dr. Girijesh Kumar Patel	Assistant Professor, Dept. of Biotechnology, Motilal Nehru National Institute of Technology, Allahabad, Prayagraj, India	25.09.2026

S. no.	Lecture title	Faculty Coordinator(s)	Resource person	Designation and Organisation	Date
1	Can Healthy be Tasty?	Dr. Sivakumar A	Dr. Leepica Kapoor	Head, Dept. of Clinical Nutrition and Diabetics, Naruvi Hospitals, Vellore	31.08.2026
2	Next-Generation Sequencing: From basics to applications in Modern Genomics	Dr. Kanagavel Deepankumar	Dr. Anith kumar Rajecdran	Research Associate, Qbiogen Labs, Vandalur, Chennai-600048	07.09.2026
3	HACCP practices in the food industry: Principles, implementation and food safety management	Dr. Kanagavel Deepankumar, DR. Naveen kumar P, Dr. Syama HP	Mr. Rajesh Thiyagarajan	Lead consultant & Food Aitor, Nucleus consultants, Chennai-600099	08.09.2026
4	Fermentation-derived proteins for cultivated meat: Innovations in sustainable protein production	Dr. Kanagavel Deepankumar, DR. Naveen kumar P, Dr. Syama HP	Dr. Chandana Tekkatte	Head of Science & Technology, Altenative protein solutions Pvt Ltd, Bangaluru	09.09.2026
5	From Lab to Industry: How Analytical Techniques drive Modern Biotechnology	Dr. Anand Prem Rajan	Mr. Jayakumar	Founder, GeneMan Biotech Pvt Ltd, Founder and Chief Technical Officer	17.09.2026
6	Google maps for the body from Analytical techniques to Clinical insights: The Role of spatial biology in clinical and Translational Research	Dr. Pragasam V, Dr. Aravind selvin kumar, Dr. Sudhakaran R	Dr, Maithreyan Srinivasan	Advisor and Consultant, Gate Scientific & Visiopharm, USA	17.09.2026



RESEARCH AND DEVELOPMENTAL SERIES

Event	Title	Speaker	Address	Organizer	Date
RDS 1	IL-17A signaling blockade: A promising therapeutic modality to combat rheumatoid arthritis and psoriasis	Dr. M. Rasool, Ph.D, FRSB	Professor Higher Academic Grade, Director-Purchase, VIT, Vellore	Dr. Sudesh R, Dr. Balaji Balakrishnan	08.09.2026



FACULTY DEVELOPMENT PROGRAM

Event	Title	Date & Time	Organizer	Speaker	Address
FDP-1	Recent Advances in Medicine: From Research to Clinical Practice	28.09.2026 to 01.10.2026 10.00AM to 5.30 PM	Dr. Sudandira Doss C, Dr. Ganesh V, Dr. Devi Rajeswari V	Dr. Suresh K Rayala	Professor, Biotechnology, IIT, Madras
				Dr. A. Gopalakrishna	Professor, Biotechnology, IIT, Madras
				Dr. Suresh Varadarajan	Professor, Sri Ramachandra Medical College, Chennai
				Dr. Rajesh Kumar G	Professor, Sri Ramachandra Medical College, Chennai
				Dr. Subbiah shanmugam	Professor, Anna Memorial Cancer Research Hospitals, Kanchipuram
				Dr. Sandhya sundaram,	Professor, Sri Ramachandra Medical College, Chennai
				Dr. Maj R Gowrishankar	Medical officer, IIT Madras
				Dr. Prasanna Srinivasa Rao H	Professor, Arignar Anna Memorial Cancer Research, Kanchipuram

VISITORS



UPCOMING EVENTS



Vellore Institute of Technology
Engaging Emotional Biosciences and Technology

SCHOOL OF BIOSCIENCES AND TECHNOLOGY

A proud training partner of
FOOD SAFETY TRAINING AND CERTIFICATION (FoSTaC)
Organizes
**FOOD SAFETY SUPERVISOR (FSS) TRAINING
FOR TWO BATCHES ON
“Basic Catering”**

Why FSS training?

- FSSAI mandates that every food business must have at least one trained and certified FSS per 25 food handlers.
- Required on all premises for businesses with a central or state license.
- Upon successful completion, participants will be awarded an FSS certificate by FSSAI-FoSTaC.

Event Details

-  **DATE: 24.10.2026**
-  **TIME: 9:00 AM - 1:00 PM & 2 PM - 6 PM**
-  **DURATION OF COURSE: 4 HOURS**
-  **VENUE: CBMR SMART CLASSROOM**

Registration Details

- Register at: <https://events.vit.ac.in/>
- Limited to 30 participants per batch
- Selected on first come basis
- Training Fee - Rs. 300/-

Contact:
Dr Jeevitha G C
Mob. No. 9080860471
Mail ID: jeevithags@vit.ac.in

For Further Details Contact:
Dr Suneetha V
Dean SBST
Intercom No. 2662
Mail ID: dean.sbst@vit.ac.in

UPCOMING EVENTS

Call for Students to COIL Vellore Institute of Technology & Kyushu University
Collaborative Online International Learning

“Food, Culture, and Student Life in Japan and India”



Miso, koji, Kombu, Matcha, Yuzu, Shiso, Fermentation Techniques, etc...



Spices (turmeric, cardamom, cumin...), moringa, tamarind, etc...

FIRST OF ITS KIND!
STEPPING STONE TO PURSUE SAP AT
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ONLY
TEN
SEATS

COIL is a new initiative to exchange ideas between students of VIT and Kyushu University, Japan. Students will learn mutually about food cultures, traditional ingredients, and student life in Japan and India

Eligibility

- Students interested in registering for SAP.
- Interest in pursuing SAP at Kyushu University, Japan
- Pre-final and final year students of SBST

Program mode: Online

- Lectures on Indian and Japanese food, culture and student life.
- Interactive sessions with group discussion
- 2, 4, 9, 11, 16, 18, 23 and 25th December 2026 (8 sessions)
- Certificates will be provided.

Faculties in charge

Kyushu University, Japan Dr. NAKAMURA Mako, Professor Dr. Harsha Prakash, Assistant Professor	Vellore Institute of Technology, India Dr. Suneetha Vuppu, Professor (HAG), SBST Dr. Sudhakaran R, Professor, SBST
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For more information please write to dean.sbst@vit.ac.in **Deadline** **15th October (Thursday) 17:00 hrs**

履修者募集！ ヴェローラ工科大学/VIT（インド）
オンライン授業（COIL） ×九州大学

「日本とインドにおける食文化と学生生活」



味噌、麹、昆布、抹茶、柚子、シソ、発酵技術、など



スパイス（ターメリック、カルダモン、クミン...）、モリンガ、タマリンド...

PROGRAMS OFFERED

The School of Bio Sciences and Technology (SBST) 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.

“Biotechnology is not just about creating new products, it’s about creating new ways of thinking.”

- Susan Desmond-Hellmann



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