

**SRI SANKARA ARTS & SCIENCE COLLEGE ENATHUR,
KANCHIPURAM**

STAFF PROFILE

DEPARTMENT OF BIOTECHNOLOGY

1.	Name of the Staff	Dr.S.Vinodhini
2.	Designation	Assistant Professor
3.	Date of Joining	10.06.2024
4.	Mobile Number	8056449437
5.	E-MailID	Shanvinodhini22@gmail.com
		svinodhini@sankaracollege.edu.in
6.	Nationality	Indian
7.	Academic Qualification	MSc., PhD
8.	Field of Specialization	Pharmacology and plant based drug discovery.
9.	Ph.DThesisTitle	Exploring the molecular docking analysis and antidiabetic activity of isolated fraction of <i>Samanea saman</i> leaf extract through <i>in-vitro</i> and <i>in-vivo</i> approach
10.	AwardingUniversity, YearofAward	17-02-2022

11. WorkExperience:

S.No.	Name of the Institution	Designation	Period
1.	DKM College For Women	Head of the Department	2023-2024
2.	DKM College For Women	Assistant Professor	2021-2024
3.	VIT Vellore	Research Associate	2016-2018
4.	VIT Vellore	TRA (Teaching cum research Assistant)	2018-2020

12.Other Academic and Administrative Responsibilities:

S.No.	Name of the Institution/Committee	Position	Period
1.	Sri Sankara arts and Science	Alumni Coordinator	2024-2025
2.	DKM College Department of Biotechnology	Head of the Department	2023-2024
3.	DKM College Department of Biotechnology	IQAC Department Coordinator	2023-2024
4.	DKM College Department of Biotechnology	Department Secretary	2022-2023
5.	DKM College Department of Biotechnology	NDLI Department Coordinator	2021-2022

13. Publications:

- Anne Sahithi Somavarapu Thomas, Vijaya Lakshmi Murugan Kavitha, Jayapriya Sekar, Mahalakshmi Velmurugan, and Malinee Sriariyanun, Vinodhini Shanmugam*, Antidiabetic activity and molecular docking analysis of milky mushroom (*calocybe indica*) grown on the economical substrate, 2023, E3S Web of Conferences, 428, 02006, EDP Sciences.
- Shanmugam Vinodhini, Manimegalai Sengani, Abbas Alam Choudhury, Kanagavalli Ramasubbu, Shreya Chakraborty, Manosi Banerjee, Menaka Priya Balaji. V. Devi Rajeswari, Regulation of glucose transporter-4 intervention with *S. saman* leaves extract in streptozotocin-induced diabetic rats, Journal of Diabetes and Its Complications 36 (2022) 108340. Impact factor (3.219) .
- Anne Sahithi Somavarapu Thomas., Sona Arivu., Vinodhini Shanmugam., Gundupalli, M.P. and Amornraksa, S., 2022. Paddy straw: an economical substrate for oyster mushroom (*Pleurotus ostreatus*) cultivation. In *E3S Web of Conferences* (Vol. 355, p. 02019). EDP Sciences.

- Shanmugam Vinodhini, Devi Rajeswari V, Exploring the antidiabetic and anti-obesity properties of *Samanea saman* through in vitro and in vivo approaches, Received: 18 May 2018, Accepted: 9 July 2018, DOI: 10.1002/jcb.27385. Impact factor (4.237)
- Shanmugam Vinodhini, Devi Rajeswari V. Review on Ethnomedical Uses, Pharmacological Activity and Phytochemical Constituents of *Samanea Saman* (jacq.) Merr. Rain Tree, Pharmacogn J. 2018; 10(2):202-209.
- Sharma Mohit, Bala Anoop Sirish Kataru, Vigneshwari T., Sravani N., Vinodhini S. and Devi Rajeswari V. Inhibition of Calcium Oxalate Crystallization *in vitro* by an extract of *Kigelia africana*, *Research Journal of Biotechnology*, Vol. 13 (10) October (2018).
- Sathya Prabhu, Shanmugam Vinodhini, Chakravarthy Elenchezhiyan and Devi Rajeswari. Evaluation of Antidiabetic Activity of Biologically Synthesized Silver Nanoparticles (AgNPs) Using *Pouteria Sapota* on Stz-induced Diabetic Rats, *Journal of Diabetes* (2017), Doi: 10.1111/1753-0407.12554. Impact factor (3.213)
- Vinodhini S and Devi Rajeswari V, Phytochemical Profiling and Evaluation of Pharmacological Activities of *Tribulus Terrestris* (Linn.)Seed, *Int J Pharm Bio Sci* 2016 Jan; 7(1): (P) 185 – 198.
- Vinodhini S, Shri Preethi M, Nusrath Fathima N, Shivani S Kushwaha, Devi Rajeswari V, Antioxidant and Free Radical Scavenging Activity of *Punica Granatum* Leaf Extract, *Asian J Pharm Clin Res*, Vol 9, Issue 6, 2016, 140-146.
- V. N. Kalpana, D. Sathya Prabhu, S. Vinodhini and Devirajeswari V, Biomedical waste and its management, *Journal of Chemical and Pharmaceutical Research*, 2016, 8(4):670-676.
- Stephina Wilson, Cholan S., Vishnu U., Mohammed Sannan, Jananiya R., Vinodhini S., Manimegalai S. and Devi Rajeswari V, *In vitro* assessment of the efficacy of free-standing silver nanoparticles isolated from *Centella asiatica* against oxidative stress and its antidiabetic activity, *Der Pharmacia Lettre*, 2015, 7 (12):194-205.
- S. Balaji & T. Kalaivani & C. Rajasekaran & M. Shalini & S. Vinodhini & S. Sunitha Priyadharshini & A. G. Vidya, Removal of heavy metals from tannery effluents of Ambur industrial area, Tamilnadu by *Arthrospira* (Spirulina) platensis. *Environ Monit Assess* (2015) 187: 325 DOI 10.1007/s10661-015-4440-7. Impact factor (2.513)
- Dinesh S, Manasi Karmarkar, Vinodhini S, Vidhya G, Hemalatha K, Sudhakaran R. Confirmation of Anti-WSSV activity from Red Algae *Hypnae spinella* in freshwater crab *Paratelphusa hydrodomous*, *Int.J. ChemTech Res.*2014,6(8),pp 4022-4026.

Book Chapter

- Lakshmi, M. V., Prasad, S. J., Thareem, A. M., Mahalakshmi, V., Vidhyakalarani, R., & **Vinodhini, S.(2026)**. Impact of Algae Biomass for Pharmaceutical Application. In Algal Biomass Technology and Research (pp.191-224). Apple Academic Press.
- Karunamoorthy, K., Thomas, A.S.S., Murali, A.R., **Vinodhini, S.**, Jeevanandam, J. and Krishnan, S., **2025**. Challenges and Regulatory Aspects of Nanomaterials in Food Products. In Nanotechnology in Food Packaging (pp. 167-195).Cham: Springer Nature Switzerland.
- Anne Sahithi S T, Marttin Gundupalli Paulraj, Vinodhini Shanmugam, Malinee Sriariyanun (2022). Lantibiotics Production – Optimization and Scale-up Research: Cutting Edge and Challenges.
- Prakash, A., Patil, C., Vinodhini, S., Panneerselvam, A. and Rajeswari, V.D., 2019. Engineering Approach in Beverage Industry. In Engineering Tools in the Beverage Industry (pp. 1-25). Woodhead Publishing.

14. Awards and Achievement:

S.No	ProgramAttended	Place	Awards	Period
1.	Best Research for Publications	VIT Vellore	VIT Research award in 2015	2015
2.	Best Research for Publications	VIT Vellore	VIT Research award in 2016	2016
3.	DKM CFRI Student Projects	DKM College for Women	DKM CFRI Best Mentor Award 2022-2023	2022-2023
4.	Best poster award	SBST, VIT, Vellore	8 th International Conference on Science, Engineering and Technology (SET)	6 th -7 th May- 2014
5.	Best Poster award	Patel institute of applied sciences, charusat, Gujart.	International conference on emerging trends in biological science (ICETBS) 2022	9 th -11 th Jan-2022
6.	Best Model award	Department of Biotechnology DKM College	Nano robotics in modern medicine one day seminar on Nanobiotechnology	2011-2012

15. Membership in Professional Bodies:

S.No	Name of the Membership	Venue	Period
1.	YCEC-WICCI	State Vice President, Tamil Nadu	2024-2025

16. Seminars Conferences organized:

S.No	Program Attended	Place	Organized	Period
1.	Basic tools of Bioinformatics 2022-2023 Value added course	Department of Biotechnology DKM College	Guest Lecture and Organized	20.03.2023 to 24.03.2023
2.	Bio-Entrepreneurship Opportunity in Biotechnology Value added course	Department of Biotechnology DKM College	Convener	20.12.2023 to 28.12.2023
3.	Medox Hands on workshop 2022-2023	Department of Biotechnology DKM College	Organized	9.3.2023 to 10.3.2023
4.	Medox Hands on workshop 2023-2024	Department of Biotechnology DKM College	Convener	9.01.2024 to 10.01.2024
5.	National level Hands on workshop PCR and RT PCR Indegen Biotech 2022-2023 and 2023-2024	Department of Biotechnology DKM College	Organized	1day
6.	Workshop on Handling and care of laboratory animals in accordance with ethical guidelines for research	Department of Biotechnology DKM College	Convener	1 day 30.01.2024
7.	Effective Alumni convention Guest Lecture Series-2023 Future Career Prospects in Biotechnology	Department of Biotechnology DKM College	Convener	1 day 18.12.2023
8.	Organic Farming awareness Program	Department of Biotechnology DKM College	Convener	1day 29.02.2024
9.	Science week Celebration MHRD- IIC & DST- FIST INSTRUMENTATION CENTRE	Department of Biotechnology DKM College	Convener	25-02-2024 to 29.02.2024
10.	Guest Lecture “Emerging technologies and future career scope of Bioinformatics in life science” Dr. Kumar Associate professor, Department of Bioinformatics, School of life sciences, Pondicherry University.	Department of Biotechnology DKM College	Organized	14.08.2023 1day
11.	Guest Lecture	Department of	Organized	1day

	Novel Functional Food and Health Dr.Harish Kumar Post Doctoral Research Fellow University College Dublin, Ireland	Biotechnology DKM College		30.10.2023
12.	Value added course on Handling and care of laboratory animals in accordance with ethical guidelines for research conducted by Department of Biotechnology	Department of Biotechnology DKM College	Guest Lecture and Organized	18 th April to 23 rd April 2022.
13.				

17. Oral&Posterpresentation

S.No.	ProgramAttended	Place	Presented	Period
1.	1 st international conference on “recent updates in food and drugs from natural source and its multiverse applications	Sathyabama University Centre for ocean research	Comparative study and MIC level in multi-drug resistance Bacteria strain for the treatment of diabetic foot ulcer Oral Presentation	5 th and 7 th July 2023
2.	International conference on emerging trends in biological science (ICETBS) 2022	Patel institute of applied sciences, charusat, Gujart.	Exploring the molecular docking analysis and antidiabetic activity of isolated fraction of <i>Samanea saman</i> leaf extract through <i>in-vitro</i> and <i>in-vivo</i> approach Poster presentation	9 th -11 th Jan-2022
3.	NUS- VIT Symposium Theranostics in Health and Disease	SBST, VIT Vellore	Poster presentation	20 th -22 nd July 2017
4.	International Conference on current trends in biotechnology (ICCB- 2016)	SBST, Vellore	Pharmacology study and establishment of quality parameter of <i>Samanea saman</i> leaves Poster presentation	8 th to 11 th Dec-2016.
5.	National Conference Futuristic Trends in Biotechnology and Computational Biology	SBST, VIT, Vellore	Alpha amylase inhibition property of <i>Samanea saman</i> : an invitro antidiabetic activity and molecular interaction study	13 th -14 th Oct-2016
6.	International Conference on Environment and Health in changing Climate	Department of Environment biotechnology, Bharathidasan, University, Tiruchirappalli	Oral Presentation	14 th and 16 th Sep-2016
7.	International symposium on conversation of Aquatic and Terrestrial Bio diversity	Thiruvalluvar University	Oral Presentation	28 th -30 th sep-2016
8.	7 th International Conference on Science, Engineering and technology (SET)	SBST, VIT	Protective effect of micro algae against heavy metal toxicity Oral Presentation	14 th -15 th Nov-2013

9.	8 th International Conference on Science, Engineering and Technology (SET)	SBST, VIT, Vellore	Isolation of Anti-WSSV bioactive compounds from Marine Macroalgae for Poster presentation	6 th -7 th May- 2014
10.	9 th International Conference on Science Engineering and Technology (SET)	VIT Vellore	<i>Invitro</i> antioxidant activity and phytochemical analysis of marine red algae (<i>Portieria hornemannii</i>) Poster presentation	10 th -11 th Nov-2014.

18. Seminars Conference Participated:

S.No.	Program Attended	Venue	Period
1.	Webinar “ Introduction to Molecular Dynamics (MD) Simulation for Bioinformatics Applications	Incubate (Autosimulate-startup) VIT TBI	25-05-2024
2.	International Symposium Role of Chromatography in Pharmaceutical Industry	Arcot Sri Mahalakshmi Women’s College	23-01-2024
3.	Winter Symposium and Social Zone Micro con-2024	CMC Vellore	1 st -3 rd Feb-2024
4.	10 th National DNA Day	SBST, VIT, Vellore	7 th -8 th Oct-2023
5.	National Intellectual Property Awareness Mission	Government of India, Patents designs and Trade marks	11 th March, 2022
6.	Advanced tools in assessment of marine biodiversity and Pollution monitoring (ATAMBPM)-Phase-II	Five days online FDP, Sathyabama Institute of science and technology, Chennai	12 th to 16 th September 2023
7.	Effective Documentation For NAAC” organized by internal quality Assurance cell	D.K.M College for Women (Autonomous), Vellore-1.	2023
8.	National Intellectual Property Awareness Mission	D.K.M College for Women (Autonomous), Vellore-1.	March 11, 2022
9.	A3 Day Popular Lecture Series on Marine Biotechnological Advancement	Department of Biotechnology, Vel Tech, Chennai	17 th -19 th Oct-2022
10.	National Intellectual Property Awareness Mission	D.K.M College for Women (Autonomous), Vellore-1.	26.10. 2022
11.	A3-Day Virtual Popular Lecture Series on Antimicrobial Resistance.	Organized by the department of Biotechnology Vel Tech High Tech Engineering College	26-8-2022
12.	Advanced Tools in Assessment of Marine Biodiversity and pollution Monitoring	Organized by centre for Ocean Research, Sathyabama	2022

	(ATAMBPM)	Institute of Science and Technology	
13.	Metal-organic frameworks for luminescence based sensing applications	Department of energy science, institute of science and humanities, SIMATS school of engineering Thandalam, Chennai.	4.06.2022
14.	An introduction to cell culture, Basics aspects and good practices in cell culture held at SBST, VIT Vellore conducted by Himedia Laboratories pvt Ltd, Mumbai.	FDP, SBST, VIT	2014

19. **Participated as Resource Person:** Startup India, organized by IISC, DKM College for Women, Vellore.

20. Workshop & Training Programmes:

S.No	Program Attended	Venue	Period
	National Workshop on Animal cell culture basic to applied Aspects	Islamiah College, Vaniyambadi.	23 rd Feb-2023
1.	Medox Hands-on Workshop 2022-2023	Department of Biotechnology DKM College	Two days
2.	Medox Hands-on Workshop 2022-2023	Department of Biotechnology DKM College	Two days
3.	PCR and applications Indegen Biotech 2022-2023	Department of Biotechnology DKM College	One day
4.	PCR and RT PCR National Level on Hands on workshop Indegen Biotech 2023-2024	Department of Biotechnology DKM College	One day
5.	Basic Bioinformatics Methods from sequence to structure Hands on Workshop	Online workshop Lifesenz Cancer Research Labs Mumbai	One day
6.	Technology based Entrepreneurship Development Programme (TEDP) Mushroom Cultivation and value addition	Online Training programme DST and Tamilnadu state council for Science and Technology and Mother Teresa Women's University, Kodaikanal	20 Days
7.	ICSSR Workshop	VIT VAIAL VIT Vellore	One day

8.	Animal Cell Culture : Basic to applied Aspects	National Workshop cum Hands on Training on "Animal Cell Culture: Basic to Applied Aspects" (ACCBAA-23)	One day
9.	Plants and Algae from basic to advanced biotechnology	Online lecture workshop National Sathyabama university	5days
10.	Western blot Hands on training	TBI VIT Vellore BIRC- Bio NEST Laboratory	Twodays
11.	Faculty development program on essential skills for professional developmental in higher education	Star international foundation for research and education	7 Days 1.07.2024- 07.07.2024
12.	AIRSA TALK Dr. Naveedp Ahuja : The future of health: lifestyle medicine in the era of artificial intelligence	All India research scholar's association	14.07.2024.
13.	Participated in one week national level online faculty development program using advanced tools and techniques for quantitative and qualitative data analysis	(Special focus on JAMOV and NVIVO) Gujarat National Law University, Gandhinagar.	September 6 to12 2024.
14.	Participated in one week online faculty development Artificial intelligence and Its Applications in Multidisciplinary	Apollo University, chitoor.	10.03.2025- 15.03.2025.
15.	Participated in one day webinar Development of effective and affordable and treatment-monitoring point-of- care assays	Global medical research foundation, Chennai	30.01.2025
16.	Participated in one week online faculty development program on mpowering innovation and Research:A Comprehensive FDP on intellectual Property Rights (IPR) conducted on	Indra ganesan institute, Thiruchirapalli	24.02.2025- 01.03.2025.
17.	FDP- Enhancing institutational quality uderstandaing the New NAAC revised criteria	Department research, Indra ganesan institute, Thiruchirapalli	5.05.2025 to 10.05.2025.
18.	FDP- Emerging trends and innovation in biotechnology for sustainablefuture.	NIMS institute, Jaipur.	16.06.25-20.06.25

21. Projects Completed:

S.No	Name of the project	Period	Grant Received/Status
1.	DKM CFRI Student Project (Three projects) 2022-2023	6months Project	6000 ×3 18,000 Completed
2.	DKM CFRI Student Project (Two Projects) 2023-2024	6months project	6000× 2 12,000 Completed

22. AnyotherDetails: OrcidId: <https://orcid.org/0009-0003-5829-1074>

ScopusId: 56380517600