




SETHU INSTITUTE OF TECHNOLOGY

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Department of Biotechnology					
Name	Dr.V.Shunmuga Priya				
Date of Birth	30.11.1986				
Unique ID	1-10998916261				
Educational Qualifications	M.Tech., Ph.D				
Designation	Associate Professor				
Email ID	Shunmu30@gmail.com				
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Experience	Industry	Teaching	Others	Total	
	-	9.11 Years	-	9.11 Years	
Date of Joining the Institution	03.03.2022				
Area of Specialization	Phytochemical Analysis, Drug discovery				
Courses taught	Biochemistry, Animal Biotechnology, Molecular Biology, Genetic Engineering, Bioinformatics, Cancer Biology				
Research Focus	Disease Management				
Subject Competency	Molecular Biology, Genetic Engineering, Bioinformatics				
No. of papers published	National Journals		International Journals	Conferences	
	03		03	12	
PG Specialization	Biotechnology				
Ph.D. Specialization	Biotechnology				
Patents (Filed & Granted)	Filed -01				



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Academic Credentials

Level	Degree	Specialization	University	Year of Completion
UG	B.E.,	Biotechnology	Anna University Chennai	2008
PG	M.E.,	Biotechnology	Anna University, Tiruchirappalli	2010
Ph.D.	Ph.D.,	Biotechnology	Anna University Chennai	2021

Details of Journal Publication:

1. Vijay Aadithya C, Praveena PL, Vanaja S and Shunmuga Priya V 2025, '*Integrative Computational Identification of Non-Toxic Flavonoid derivatives as MMP-1 Inhibitors in Breast Cancer*', Asian Oncology research Journal, Vol 8, no.1, pp. 55 - 78.
2. **Shunmuga Priya, V**, Pradiba, D, Aarthy, M, , Singh, SK, Anant Achary & Vasanthi, M 2020, '*In-silico Strategies for identification of potent inhibitor for MMP-1 to prevent metastasis of breast cancer*', Journal of Biomolecular Structure and Dynamics, Vol. 39, no.18, pp. 7274-7293.
3. Pradiba, D, Aarthy, M, **Shunmuga Priya, V**, Singh, SK & Vasanthi, M 2018, '*Structural insights into the binding mode of flavonols with the active site of matrix metalloproteinase-9 through molecular docking and molecular dynamic simulations studies*', Journal of Biomolecular Structure and Dynamics, vol. 36, no. 14, pp. 3718-39,
4. Ramaraj.K, Sheik Alavudeen.J, Arunraj.A, GaneshMoorthy.I, **Shunmuga Priya V** and Ronaldo Anuf.A, 2015, "*Treatment of Organic Pollutants in Industrial Effluent using electrocoagulation – A Review*", International Journal of Applied Engineering Research, vol. 10, no. 2, pp. 1542-1543.
5. Asiya Parvin Allaudeen, C. Manjula, N. Jothi, C. Vignesh Kumar, B. Indramani, **V. shunmuga Priya**, E. Bhakkiyalakshmi, K. M. Ramkumar, P. Rajaguru. 2015, "*RNAI mediated gene silencing of eIF3A: A possible solution to control Breast cancer*", International Journal of Pharmacy and pharmaceutical Sciences, Vol. 7, no.11, pp. 289-293.
6. **V. Shunmugapriya** & P.RajaGuru 2014, "*RNAi mediated silencing of eukaryotic initiation factor 4B (eIF4B) to enhance chemo-sensitivity of breast cancer cells*", International Journal of Pharmacy and pharmaceutical Sciences, Vol. 6, no.4, pp. 626-631.

Details of Conference attended:

1. SN. Afreena , S.Priyadharshinia , M.Vanishaa , Dr.V.Shunmuga Priya*, "Polysaccharides Based Edible Coating for the Preservation of Fruits and Vegetables" National Conference on Biotechnology and the SDGs - Pioneering Solutions for a Sustainable World, 11 March, 2025, Kamaraj College of Engineering & Technology.

2. Vijay Aadhithya and Shunmuga Priya. V*, "Computational and in-vitro evaluation of turmeric oleoresin as a MMP-9 inhibitor for wound healing", 4th International Conference on Biotechnological Emergence in Science and Technology, 27 & 28 February, 2025, SRM Institute of Science & Technology.
3. Vijay Aadhithya. C, Praveena. PL and Shunmuga Priya. V*, "An innovation of hydrogel injection to repair spontaneous CSF leak", INDIAN IMMUNOLOGY SOCIETY Sponsored International Conference IMMUNFEST 2023, 28 April, 2023, Ponnaiyah Ramajayam Institute of Science and Technology (PRIST), Deemed to be University, Thanjavur.
4. V. Shunmuga Priya*, P.L.Praveena, R.Nageshwari, D. Pradiba, M. Vasanthi "In-Vitro Cytotoxic Effect of Phytochemicals As Potential Matrix Metalloproteinase-1 (MMP-1)" International Conference on Adaptive technologies for Sustainable growth, 17 March, 2023, Paavai Engineering College (Autonomous) , Namakkal, Tamil Nadu.
5. M.Nandhini Murugesh, S.Nandhini, S.Sujitha and V.Shunmuga Priya* "Ovarian oncogenes and its treatment using phytocompound through *In-silico* tool", International conference on recent advancements in therapeutics-ICRAT, 17 August, 2022, Shrimati Indira Gandhi College, Trichy, pp.45.
6. V. Shunmuga Priya, D. Pradiba, M. Vasanthi "Investigation of phytochemicals as potential Matrix MetalloProteinase-1 (MMP-1) inhibitors for the management of Breast Cancer Metastasis - A Computational Approach', International Conference on Biosciences and Bioinformatics, 14-16 Dec, 2017, Bharathiyar University, Coimbatore, pp. 63-64.
7. S.Pavithra, A.Rajashree, P.Tasneem Nisha, D.Pradiba, Dr.M.Vasanthi & V.Shunmuga Priya, "Analysis of Matrix Metalloproteinase-2 inhibition potential of bioflavanoids from *Vitex negundo* using *in-silico* and *in-vitro* approaches", International Conference on Herbal & Natural components as the future of Pharmacology, 27 Feb-1 Mar, 2017, Avinashilingam University, Coimbatore, pp. 158.
8. Pradiba, D, Aarthy, M, Shunmugapriya, V, Singh, SK & Vasanthi,M 2017, 'Exploration of plant bioflavonoids as potential Matrix MetalloProteinase-9(MMP-9) inhibitors for the management of Rheumatoid Arthritis- A Computational Approach', 9th National Symposium cum Workshop on Recent Trends in Structural Bioinformatics and Computer Aided Drug Design SBCADD'2017", 14-17 Feb 2017 Alagappa University, Karaikudi.
9. S.Vanaja , G.Vishruthi , P.Priya Dharshini & V.Shunmuga Priya, "Extraction of Biochemical compounds from Banana Peel & Evaluvation of its Anti – Cancer Activity" DBT sponsored National Conference on RTCFSB, 25 Sep, 2015, Kongu Engineering College, Erode, pp. 24-25
10. S.Pavithra, A.Rajashree, P.Tasneem Nisha & V.Shunmuga Priya, "Studies on Matrix Metalloproteinase-2 inhibition potential of phytochemicals using *in-silico* analysis", International Conference on Cancer biology: Drug discovery & Novel Therapeutics, 29-30 September, 2016, Saiva Bhanu Kshatriya College, Aruppukottai, pp. 129.
11. S.Vanaja, P.Priyadharshini, G.Vishruthi, V.C.Padmanaban and V.Shunmuga Priya, "Optimization studies on extraction of phytochemicals from different varieties of *Musa sapiens*:Central Composite design", Recent Trends in Biosciences, Alagappa University Karaikudi, pp. 240.

12. V.Shunmuga Priya, P.Rajaguru, “RNAi mediated silencing of eukaryotic initiation factor 4B (eIF4B) to enhance chemo-sensitivity of breast cancer cells”at national level Students Technical Symposium, during August 28-30, 2009, at Bannari Amman Institute of Technology, Erode.

Details of Patents Filed and Granted:

Applicant Name(s)	Title	App.No. & Filed date	Published / Granted with date
Dr.V.Shunmuga Priya	PHYTO NANO- NEBULIZER	Date of:16/12/2024 Application No.202441099338 A	Publised on 27/12/2024