

**SRI SANKARA ARTS AND SCIENCE COLLEGE**

**ENATHUR, KANCHIPURAM**

**STAFF PROFILE**

**DEPARTMENT OF BIOCHEMISTRY**



<b>1.</b>	<b>Name of the Staff</b>	<b>Dr. S. Sivakumar</b>
<b>2.</b>	<b>Designation</b>	<b>Associate Professor</b>
<b>3.</b>	<b>Date of Joining</b>	<b>25.09.2000</b>
<b>4.</b>	<b>Mobile Number</b>	<b>9865866168</b>
<b>5.</b>	<b>E-Mail ID</b>	<b>sivabio@gmail.com</b>
<b>6.</b>	<b>Nationality</b>	<b>Indian</b>
<b>7.</b>	<b>Academic Qualification</b>	<b>M.Sc., M.Phil., Ph.D., PGDBI, DAAP., CNST.,</b>
<b>8.</b>	<b>Field of Specialization</b>	<b>Clinical Biochemistry and Bioinformatics</b>
<b>9.</b>	<b>Ph.D Thesis Title</b>	<b>Expression of Osteopontin – D in Breast Cancer Patients: Identification of a New Splice Variant</b>
	<b>Awarding University, Year of Award.</b>	<b>University of Madras, 2013</b>

**10. Work Experience (in chronological order):**

<b>S.No.</b>	<b>Name of the Institution</b>	<b>Designation</b>	<b>Period</b>
<b>1.</b>	Sri Sankara Arts and Science College, Enathur – 631 561	Lecturer (Assistant Professor)	25/9/2000 - 30/6/2011
<b>2.</b>	Sri Sankara Arts and Science College, Enathur – 631 561	Associate Professor	01/7/2011 – Till date

**11. Other Academic and Administrative Responsibilities:**

<b>S.No.</b>	<b>Name of the Institution/Committee</b>	<b>Position</b>	<b>Period</b>
<b>1.</b>	Sri Sankara Arts and Science College, Enathur – 631 561	NSS Programme Officer	2002-2005
<b>2.</b>	Sri Sankara Arts and Science College, Enathur – 631 561	Coordinator, Advanced Diploma in Bioinformatics, Value added course.	2009 - 2020
<b>3.</b>	Sri Sankara Arts and Science College, Enathur – 631 561	Head i/c, Department of Microbiology.	2009 - 2010
<b>4.</b>	Sri Sankara Arts and Science College, Enathur – 631 561	Coordinator, Environmental Studies.	2009 – Till date
<b>5.</b>	Sri Sankara Arts and Science College, Enathur – 631 561	Staff Representative, College Management Committee.	2011 – 2020
<b>6.</b>	State Council of Educational Research and Training, Govt. of Tamil Nadu.	Member, Syllabus and Book Writing Committee for XI and XII standards	2013 – Till date
<b>7.</b>	Sri Sankara Arts and Science College, Enathur – 631 561	Academic Council Member	2015 – Till date
<b>8.</b>	University of Madras	Academic Council Member	2017 – 2020
<b>9.</b>	Sri Sankara Arts and Science College, Enathur – 631 561	Additional Controller of Examinations	2015 – 2017

10.	Sri Sankara Arts and Science College, Enathur – 631 561	Controller of Examinations	2017 – 2023
11.	Indira Gandhi National Open University (IGNOU)	Online Academic Counselor (IG/RSD/Academic Counselor-19)	2022 – Till date
12.	IGNOU and IIT Kanpur, Department of Higher Education, Ministry of Education, Government of India.	Tamil Video Content Developer for SATHEE (Self-Assessment, Test and Help for Entrance Examination) Project	2023 – Till date

## 12. Publications:

S.No.	Title	Journal	Pages
1.	Bitter Gourd ( <i>Momordica Charantia</i> ) Peroxidase in Decolorization of Dyes from Tannery Effluent	Recent Research in Science and Technology (ISSN: 2076-5061)	2(2), 49-53, 2010.
2.	Studies on Biochemical changes in Mangoes due to artificial Ripening	Int. J. Agri. Sci. (IJAS) (ISSN: 0976-450X)	1(4), 347-355, 2010.
3.	Enzymatic and Non-Enzymatic anti-Oxidant status of Breast Cancer patients in Tamilnadu	International Journal of Pharma and Bio Sciences (IJPBS) (ISSN: 0975-6299)	2(4), B46-B53, 2011.
4.	Histopathology of breast cancer patients in Tamilnadu: Tumor grading and staging through NPI	Journal of Pharmacy Research (JPR) (ISSN: 0974-6943)	4(10), 3635-3637, 2011.
5.	Mineral status of female breast cancer patients in Tamilnadu	International Journal of Research in Pharmaceutical Sciences (IJRPS) (ISSN: 0975-7538) (UGC journal no: 23466)	3(4), 618-621, 2012
6.	Molecular Mechanism of Interaction between Human Sweet Taste Receptors and Antidiabetic agents of <i>Gymnema Sylvestre</i> through Docking Studies	International Journal of Research in Phytochemistry and Pharmacology (IJRPP) (ISSN: 2231-010X)	2(4), 164-170, 2012
7.	In silico identification of novel polynucleotide vaccine target across avian flu viral vaccine strains	International Journal of Current Biotechnology (IJCBI) (ISSN: 2321-8371)	1(1), 1-4, 2013

8.	Biochemical evaluation of urine and serum sample of patients with nephrolithiasis in Pondicherry	International Journal of Applied Biochemistry (IJAB) (ISSN: 2349-5421)	1(1), 5-10, 2013
9.	Tertiary structure prediction and identification of druggable pocket in the cancer biomarker - Osteopontin-c	Journal of Diabetes and Metabolic Disorders (J Diabetes Metab Disord.) (ISSN: 2251-6581) (UGC journal no: 7100)	13(1):13, 2014
10.	Mitochondrial Reprogramming Regulates Breast Cancer Progression	Clinical Cancer Research (Clin Cancer Res) (Print ISSN: 1078-0432; Online ISSN: 1557-3265) (UGC journal no: 18816).	Feb 17. pii: clincanres.2456.2015, 2016
11.	Decolorization of tannery effluent through biological conversion process by <i>Cucumis sativus</i> fruit extract - Phytoremediation	South Asian Journal of Engineering and Technology (SAJET)” (E-ISSN: 2454-9614)	2(24):8-29, 2016. DOI: 10.13140/RG.2.2.29255.14242, 2016
12.	Analysis of EWAG-BBD pathway prediction system for the identification of malathion degrading microbes	Bioinformation (Print ISSN: 0973-8894; Online ISSN: 0973-2063) (UGC journal no: 47005)	13(3):73-77, 2017
13.	Identification of New Inhibitor against <i>Mycobacterium tuberculosis</i> using Structure Based Drug Designing and Docking Studies	Research Journal of Pharmacognosy and Phytochemistry (Print ISSN: 0975-2331; Online ISSN: 0975-4385)	9(3):173-176, 2017
14.	Identification of Microbes Degrading Bifenthrin Using Pathway Prediction System	Bhamathi Microbiology News Letter (Print ISSN: 2231-136X)	7(1):16-22, 2017
15.	Identification of Potential Drug Target by QSAR for HIV	Bhamathi Microbiology News Letter (Print ISSN: 2231-136X)	7(1):29-33, 2017
16.	Identification of new snake venom zinc Metalloproteinase inhibitor using docking studies from <i>Plectanthus amboinicus</i>	Asian Journal of Research in Pharmaceutical Sciences [AJPSci] (Print ISSN: 2231-5640; Online ISSN: 2231-5659)	7(3):132-134, 2017
17.	Efficacy of Graviola fruit pulp in Human Health Care Management- A narrative review	International Journal of Research and Analytical Reviews [IJRAR]” (Print ISSN: 2349-5138 Online ISSN: 2348 -1269)	5(4):598u-602u, 2018.
18.	Cancer Testis Antigen Promotes Triple Negative Breast Cancer Metastasis and is Traceable in the Circulating Extracellular Vesicles	Sci Rep. (Online ISSN: 2045-2322)	12;9(1):11632. 2019.
19.	1,2,4 triazolo[1,5-a] pyrimidin-7-ones as novel SARS-CoV-2 Main protease inhibitors: In silico	Biophysical Chemistry, (ISSN: 0301-4622; E-ISSN: 1873-4200)	267 (2020) 106478, 2020.

	screening and molecular dynamics simulation of potential COVID-19 drug candidates		
20.	<i>In silico</i> prediction of interactions and molecular dynamics simulation analysis of M <sup>pro</sup> of Severe Acute Respiratory Syndrome caused by novel coronavirus 2 with the FDA-approved nonprotein antiviral drugs	J Appl Pharm Sci, ISSN Online: 2231-3354.	12(05):104–119. 2022.

### 13. Awards / Distinction :

S.No.	Name of the Award	Venue	Period
1.	Facutly Awar	Sri Sankara Arts and Science College, Enathur – 631 561	2010 - 2011
2.	Certificate of Appreciation	Sri Sankara Arts and Science College, Enathur – 631 561	2012 - 2013
3.	Best Teacher Award	Sri Sankara Arts and Science College, Enathur – 631 561	2012 – 2013
4.	Best Performer Award	Sri Sankara Arts and Science College, Enathur – 631 561	2017 – 2018
5.	Best Paper Publication Award	Sri Sankara Arts and Science College, Enathur – 631 561	2020 – 2021

### 14. Membership in Professional Bodies:

S.No.	Name of the Membership	Venue	Period
1.	Member of Biochemistry subject of XI and XII for the preparation of syllabus for Higher Secondary Classes	State Council of Educational Research and Training, Chennai 600 006	2012 - 2013

2.	Member of Biochemistry subject of XI and XII for the preparation of Text Book for Higher Secondary Classes	State Council of Educational Research and Training, Chennai 600 006	2013 - 2014
3.	Doctoral Committee member	Department of Biomedical Science, Bharathidasan University, Trichy – 620 024	2015 - 2019
4.	Doctoral Committee member	Department of Computational Biology, Institute of Bioinformatics, Saveetha School of Engineering, SIMATS – 602105	2023 - 2024

#### 15. Seminars Conferences organized /Participation:

S.No.	Program Attended	Place	Organized/ Participated	Period
1.	TAB 2001	Sri Sankara Arts and Science College, Enathur	Organized	March, 2001
2.	SANBIOCHEMFEST – 2002	Sri Sankara Arts and Science College, Enathur	Organized	Jan 2002
3.	National Symposium on Emerging Facts in Cancer	Sri Sankara Arts and Science College, Enathur	Organized	<b>Oct, 2006</b>
4.	Bioinformatics Training for Employees (BITE)	Sri Sankara Arts and Science College, Enathur	Organized	October 2006 to Jan 2007
5.	Science Exhibition	Sri Sankara Arts and Science College, Enathur	Organized	21 <sup>st</sup> Jan 2009
6.	Elixir – 2010 Science Exhibitio	Sri Sankara Arts and Science College, Enathur	Organized	14 <sup>th</sup> Oct 2010
7.	Frontiers in Lifesciences	Sri Sankara Arts and Science College, Enathur	Organized	11 <sup>th</sup> Jan 2012

<b>8.</b>	ASTRA 2011-2012	Sri Sankara Arts and Science College, Enathur	Organized	20 <sup>th</sup> – 25 <sup>th</sup> Feb 2012
<b>9.</b>	Elixir – 2012	Sri Sankara Arts and Science College, Enathur	Organized	10 <sup>th</sup> – 11 <sup>th</sup> Oct 2012
<b>10.</b>	Elixir – 2013	Sri Sankara Arts and Science College, Enathur	Organized	9 <sup>th</sup> – 10 <sup>th</sup> Oct 2013
<b>11.</b>	Emerging facts in Diabetes Mellitus	Sri Sankara Arts and Science College, Enathur	Organized	29 <sup>th</sup> January, 2015
<b>12.</b>	Biomarkers in Clinical Research (BCR - 2017)	Sri Sankara Arts and Science College, Enathur	Organized	8 <sup>th</sup> March, 2017
<b>13.</b>	Recent Strategies in Regenerative Therapy	Sri Sankara Arts and Science College, Enathur	Organized	8 <sup>th</sup> March, 2018
<b>14.</b>	National workshop on Fundamentals of Medical Coding	Sri Sankara Arts and Science College, Enathur	Organized	8th March, 2019
<b>15.</b>	National Quiz on COVID19 Awareness	Sri Sankara Arts and Science College, Enathur	Organized	1-6 May, 2020
<b>16.</b>	National Seminar on “Traditional System of Medicine in Modern Healthcare”	Sri Sankara Arts and Science College, Enathur	Organized	2nd January, 2021
<b>17.</b>	National Quiz on “Environment Quizzard 2021”	Sri Sankara Arts and Science College, Enathur	Organized	5 <sup>th</sup> and 6 <sup>th</sup> June, 2021
<b>18.</b>	Indian Youth and Communal Harmony	S.K’s Educational Academy	Participated	18 <sup>th</sup> September, 2003
<b>19.</b>	International Conference on Mahabharata	Kanchi Kamakoti Peetam and M.O.P Vaishnav College	Participated	23 <sup>rd</sup> -28 <sup>th</sup> December, 2003
<b>20.</b>	New Frontiers and Current trends in Biotechnology	Department of Biochemistry, Madras University, Guindy Campus	Participated	18 <sup>th</sup> -19 <sup>th</sup> October, 2008

<b>21.</b>	Crosslinx'10	CLRI, Chennai – 600 025	Participated	17 <sup>th</sup> – 19 <sup>th</sup> February, 2010
<b>22.</b>	Neophyte – 2010	Department of Biotechnology, SSASC	Participated	18 <sup>th</sup> August, 2010
<b>23.</b>	National Symposium on Antituberculosis Drug Discovery (NSADD)	Department of Bacteriology, TRC	Participated	30 <sup>th</sup> October, 2010
<b>24.</b>	International Conference on Gene Therapy and Phytotherapy in Modern Medicine	Adhiparasakthi College of Arts and Science, Kalavai – 632 506	Participated	4 <sup>th</sup> January, 2011
<b>25.</b>	Agricultural and Environmental Concerns – Role of Education	Knowledge Xchange, Chennai	Participated	4 <sup>th</sup> February, 2011
<b>26.</b>	Cellular and Molecular Neurobiology in Health and Diseases	Department of Biochemistry, Maraimalai Campus, Guindy, University of Madras	Participated	11 <sup>th</sup> – 12 <sup>th</sup> February 2011
<b>27.</b>	Advanced Molecular Techniques and its Applications	Department of Molecular Oncology, Cancer Institute (WIA), Chennai	Participated	7 <sup>th</sup> August 2011
<b>28.</b>	Recent Advances in Biomedical Research on Infectious and Non-infectious Diseases	Department of Biomedical Science, Bharathidasan University, Trichy-24	Participated	13 <sup>th</sup> – 14 <sup>th</sup> October 2011
<b>29.</b>	The Role of Free Radicals in Health and Diseases	Department of Biochemistry, University of Madras, Guindy Campus, Chennai-600 025	Participated	27 <sup>th</sup> – 28 <sup>th</sup> January, 2012
<b>30.</b>	Emerging Horizons in Biotechnology – Challenges and Prospects	Department of Biotechnology, Alpha Arts and Science College, Chennai was held at Chennai	Participated	20 <sup>th</sup> and 21 <sup>st</sup> September, 2012
<b>31.</b>	Entrepreneurship Development for Life sciences ED Bioz'13	Department of Biochemistry, Adhiparasakthi College of Arts and Science (Autonomous), Kalavai – 632 506	Participated	23 <sup>rd</sup> January, 2013



<b>32.</b>	Emerging Trends in Microbial Biotechnology	Department of Microbiology, Kanchi Shri Krishna College of Arts and Science, Kilambi – 631 551	Participated	20 <sup>th</sup> and 21 <sup>st</sup> February 2013
<b>33.</b>	Recent Trends in Life Science	Auxilium College, Vellore – 632 006	Participated	12 <sup>th</sup> – 13 <sup>th</sup> December 2013
<b>34.</b>	International Conference on NanoBio, Biomimetic Materials and Its Applications (BIOSUMMIT-2014)	Hindusthan Institute of Technology and College of Arts and Science, Department of Biosciences, Coimbatore – 641 028	Participated	27 <sup>th</sup> – 28 <sup>th</sup> February 2014
<b>35.</b>	National seminar on Innovative Research in Biological Science (NSIRBS)	Govt. Thirumagal Mills College, Gudiyatham – 632 604	Participated	19 <sup>th</sup> December 2014
<b>36.</b>	Emerging Trends in Microbial and Environmental Biotechnology	Department of Microbiology, Kanchi Shri Krishna College of Arts and Science, Kilambi – 631 551	Participated	6 <sup>th</sup> March 2015
<b>37.</b>	Current Advances in Immunology Research	Centre of Advanced Study in Marine Biology, Faculty of Marine Sciences, Annamalai University, Parangipettai	Participated	07 <sup>th</sup> and 08 <sup>th</sup> August, 2015
<b>38.</b>	Applications of green technologies for separation bioproducts	Department of Biotechnology, Sree Sasta Institute of Engineering and Technology, Chembarabakam, Chennai – 600 123	Participated	02 <sup>nd</sup> and 03 <sup>rd</sup> September, 2015
<b>39.</b>	Frontier Research in Applied Biology and Environmental Sciences	Department of Biochemistry, King Nandhivarman College of Arts and Science, Thellar	Participated	30 <sup>th</sup> January, 2016
<b>40.</b>	Emerging paradigm in cancer therapy	Indo-American College, Cheyyar – 604 407	Participated	17 <sup>th</sup> August, 2016
<b>41.</b>	Biopharmaceuticals Pharm Bioz' 17	PG and Research Department of Biochemistry, Adhiparasakthi College of Arts and Science	Participated	31 <sup>st</sup> January, 2017

		(Autonomous), Kalavai – 632 506		
<b>42.</b>	International Conference on Frontiers in Nano Biotechnology (ICFNB'17)	Department of Biotechnology and Bioinformatics, Bishop Heber College (Autonomous), Tiruchirappalli	Participated	8 <sup>th</sup> and 9 <sup>th</sup> September, 2017
<b>43.</b>	International Symposium on Health Care System in Cancer Biology	Adhiparasakthi College of Arts and Science, Kalavai – 632 506	Participated	20 <sup>th</sup> September, 2017
<b>44.</b>	One day National Conference on “Unravelling Biometabolites with Bioactivity (NCUBB'19)”	Department of Biotechnology and Bioinformatics, Bishop Heber College (Autonomous), Tiruchirappalli	Participated	25 <sup>th</sup> February, 2019
<b>45.</b>	One day Workshop on “The Art of Writing Winnable Project Proposals”	Department of Biotechnology, Sri Sankara Arts and Science College, Enathur	Participated	12 <sup>th</sup> July, 2019
<b>46.</b>	One day International Conference on “Integrative nature of life science and its challenges in Research”	Department of Biochemistry, Theivanai Ammal College for Women (Autonomous), Villupuram	Participated	6 <sup>th</sup> September, 2019
<b>47.</b>	Two days National Conference on “Recent Trends in Life Sciences”	PG and Research Department of Biochemistry and Department of Microbiology, Bhaktavatsalam Memorial College for Women, Chennai	Participated	4 <sup>th</sup> and 5 <sup>th</sup> October, 2019.
<b>48.</b>	One day International Conference on Advances in Medical Science and Molecular Biology (AMSMB-20)	PG & Research Department of Microbiology, Idhaya College for Women, Kumbakonam	Participated	27 <sup>th</sup> January, 2020
<b>49.</b>	One day National Conference on “CONTAGIOUS DISEASE MANAGEMENT: PERSPECTIVE TO COVID-	Biological Science Forum, A Scientific community of India, India	Participated	16 <sup>th</sup> April, 2020

	19”			
50.	One day webinar on “How to Get Published In Scientific Journal : From Research to Publication”	MHRD - Institute Innovation Council - Sri Sai Ram Institute of Technology, Chennai-44, Tamilnadu	Participated	27 <sup>th</sup> April, 2020
51.	Assessment and Evaluation in Outcome Based Education	Office of Controller of Examinations, GTN ARTS COLLEGE (Autonomous), Dindigul	Participated	11 <sup>th</sup> May, 2020
52.	National webinar “E-Learning for Professional Development - Swayam& MOOCs”	GTN Arts College (Autonomous), Dindigul	Participated	16 <sup>th</sup> July, 2020
53.	Inter National webinar “Cell Communication in Disease Course”	Government Arts and Science College, Thennangur – 604408	Participated	19 <sup>th</sup> January, 2021
54.	National webinar “Patenting of Biotechnological Inventions in India”	Guru Nanak Centre for Research, Guru Nanak College (Autonomous), Chennai	Participated	29 <sup>th</sup> January, 2021
55.	National webinar “NAAC – Revised Accreditation Framework: Pathway to Excellence in HEI”	IQAC, Sri Sankara Arts and Science College, Enathur	Participated	19 <sup>th</sup> February, 2021
56.	National webinar “Intellectual Property Rights and Innovations : Patent and Designs”	Neuberg crew, Department of Biochemistry, DG Vaishnav College, Chennai	Participated	26 <sup>th</sup> April, 2021
57.	National webinar “Living Stressfree life in Pandemic”	School of Liberal Arts, Sanjay Ghodawat University, Kolhapur	Participated	9 <sup>th</sup> May, 2021.
58.	National webinar “Prognostic Biomarkers of COVID 19 and Immune Boosters”	Department of Biochemistry ,Valliammal College for Women, Chennai	Participated	13 <sup>th</sup> May, 2021
59.	National webinar “Patent – Drafting and Registration Process”	Guru Nanak Centre for Research, Guru Nanak College (Autonomous), Chennai, Tamil Nadu	Participated	19 <sup>th</sup> May, 2021
60.	online seminar “Documentation practices in the Bio pharma Industry”	Department of Biotechnology, Karunya Institute of Technology and	Participated	26 <sup>th</sup> May, 2021

		Science, Coimbatore, Tamil Nadu		
<b>61.</b>	Cheating of Cheater – COVID19	Neuberg crew, Department of Biochemistry, DG Vaishnav College, Chennai	Participated	28 <sup>th</sup> May, 2021
<b>62.</b>	International webinar “Research across the Globe – Day 1”	Department of Life sciences Associations, Valliammal College for Women, Chennai - 600 102	Participated	28 <sup>th</sup> May, 2021
<b>63.</b>	one day international webinar on "Role of Long Noncoding RNAs in Airway Mucoinflammation"	Department of Microbiology, Sri Sankara Arts and Science College (Autonomous), Enathur, Kanchipuram - 631 561.	Participated	29 <sup>th</sup> May, 2021
<b>64.</b>	International webinar “Research across the Globe – Day 2”	Department of Life sciences Associations, Valliammal College for Women, Chennai - 600 102	Participated	29 <sup>th</sup> May, 2021
<b>65.</b>	National webinar on “Basic insights and Application of Biomolecules in Wound Therapeutics”	Department of Biochemistry, SIVET College, Chennai - 600 073	Participated	4 <sup>th</sup> June, 2021
<b>66.</b>	International workshop on “IPR in Life science”	Department of Biotechnology and IPR cell, Sree Narayana Guru College, Coimbatore - 641 105	Participated	31 <sup>st</sup> July, 2021
<b>67.</b>	Webinar on “Drug Discovery and Development: Current Technologies and Career Opportunities”	Neuberg crew, Department of Biochemistry, DG Vaishnav College, Chennai	Participated	6th October 2021
<b>68.</b>	Webinar on “Link between Gene and Disease”	PG and Research Department of Biochemistry, Bhaktavatsalam Memorial College for Women, Chennai	Participated	5 <sup>th</sup> January, 2022
<b>69.</b>	International online workshop on “Academic Writing – Ethical Issues”	Global Institute of Statistical Solutions (GISS), Chennai	Participated	22 <sup>nd</sup> April to 24 <sup>th</sup> April 2022

<b>70.</b>	the National Science Academies' Lecture Workshop in "Biotechnology – Principles and Practice"	Department of Biotechnology, Sri Sankara Arts and Science College (Autonomous), Enathur, Kanchipuram - 631 561	Participated	10 <sup>th</sup> and 11 <sup>th</sup> August 2022
<b>71.</b>	National Webinar on "NEP 2020: Changing Role of Teachers"	IQAC, Bhavan's Vivekananda College of Science, Humanities and Commerce, Sainikpuri, Secunderabad-500094	Participated	10 <sup>th</sup> September, 2022
<b>72.</b>	Workshop on "Quality Control in Clinical Laboratories"	Department of Pathology, Meenakshi Medical College Hospital and Research Institute, Enathur	Participated	13 <sup>th</sup> September, 2022
<b>73.</b>	Webinar on "Bio Informatics for Healthcare"	by Department of Network Systems and Information Technology, University of Madras, Chennai-600025	Participated	19 <sup>th</sup> September, 2022
<b>74.</b>	International online workshop on "Basic Statistical Analysis and its interpretation using SPSS"	Global Institute of Statistical Solutions (GISS), Chennai	Participated	24 <sup>th</sup> , 25 <sup>th</sup> and 26 <sup>th</sup> September, 2022
<b>75.</b>	International conference on "Green Technologies for Sustainable Development (GTSD)"	Presidency College (Autonomous), Chennai	Participated	15 <sup>th</sup> and 16 <sup>th</sup> December, 2022
<b>76.</b>	National Level Webinar on "Biomaterials: Recent Advances and Future"	Centre for Drug Discovery and Development, SIST, Chennai-600119	Participated	26 <sup>th</sup> August, 2023
<b>77.</b>	Virtual Expert Lecture on "The Invisible Invincibles teach us environmental lessons"	Centre for Drug Discovery and Development, SIST, Chennai-600119	Participated	9 <sup>th</sup> September, 2023
<b>78.</b>	online workshop on "ChatGPT and AI Hacks with MS Office"	Skill Nation, Jogeshwari West, Mumbai – 400 102	Participated	15 <sup>th</sup> February 2024
<b>79.</b>	Leveraging AI for Effective Educational Work	A3Minds, Virugambakkam, Chennai – 600 092	Participated	19 <sup>th</sup> October 2024

<b>80.</b>	Honesty and Integrity Pledge against Corruption	Central Vigilance Commission, New Delhi	Participated	28 <sup>th</sup> October, 2024
<b>81.</b>	Opportunities in Data Science & AI	IPSR Solutions Ltd., Kottayam – 686 001	Participated	29 <sup>th</sup> October 2024
<b>82.</b>	Policies, Procedures and Practices – INFLATE 2025	IQAC, Sri Sankara Arts and Science College (Autonomous), Enathur, Kanchipuram - 631 561	Participated	26 <sup>th</sup> and 27 <sup>th</sup> December, 2024
<b>83.</b>	Bibliometric Analysis and Visualization Using VOSviewer	Bala's VV Academy Chennai 26, Tamil Nadu	Participated	27 <sup>th</sup> to 29 <sup>th</sup> December 2024
<b>84.</b>	Current trends in chemistry and its Diverse Applications – 2025 (CTCDA-2025)	Department of Chemistry, Pachaiyappa's College for Men, Kanchipuram	Participated	25 <sup>th</sup> January, 2025
<b>85.</b>	Innovations in Microbial Diagnostics: Bridging Biology and Technology (NCMDBT)	PG and Research Department of Microbiology, Sri Sankara Arts and Science College (Autonomous), Enathur	Participated	6 <sup>th</sup> and 7 <sup>th</sup> February, 2025

#### 16. Participated as Resource Person:

<b>S.No.</b>	<b>Program</b>	<b>Venue</b>	<b>Period</b>
<b>1.</b>	Inservice Training Programme for Secondary Grade Teachers	Sri Sankara Arts and Science College, Enathur	06-10 December 2004
<b>2.</b>	Inservice Training Programme for Govt. Higher Secondary School Biology Teachers	Sri Sankara Arts and Science College, Enathur	27-29 July 2006
<b>3.</b>	Inservice Training Programme for Secondary Grade Science Teachers	Sri Sankara Arts and Science College, Enathur	8-11 October 2007
<b>4.</b>	Scientific Awareness Programme for School students of Kanchipuram, Thiruvallur and Vellore Districts	Sri Sankara Arts and Science College, Enathur	28 <sup>th</sup> December 2007

5.	Biotechnology Research Division	Thirumalai Chemicals Ltd, Ranipept, TamilNadu	5 <sup>th</sup> April 2008
6.	Drug Discovery	Biomedical Science Department, Bharathidasan University, Thiruchirappali	29 <sup>th</sup> January 2010
7.	Inservice Training Programme for Secondary Grade Science Teachers	Kanchi Shri Krishna College of Arts and Science, Kilambi	20-24 December 2010
8.	Two days state level intensive orientation camp for NSS Volunteers	Sri Sankara Arts and Science College, Enathur	11-12 January 2011
9.	Special Lecture delivered in NSS Special Camp for NSS Volunteers	Government High School, Enathur	23 January 2012
10.	Special Lecture delivered in Two days state level intensive orientation camp for NSS Volunteers	Sri Sankara Arts and Science College, Enathur	14-15 December 2012
11.	Special Lecture delivered in Special Camp for NSS Volunteers	Sri Sankara Arts and Science College, Enathur	29 January 2014
12.	Biodiversity	Theivanai Ammal College for Women (Autonomous), Villupuram	26 <sup>th</sup> September 2014
13.	Structure Based Drug Design	Department of Biotechnology, University of Madras, Chennai - 600 025	23 <sup>rd</sup> and 24 <sup>th</sup> of March 2017
14.	Recent Trends in Biochemistry	Department of Biochemistry, Annai Therassa Arts and Science College, Thirukazhukundram - 603 109	5 <sup>th</sup> of October 2017
15.	Department of Biochemistry, Annai Therassa Arts and Science College, Thirukazhukundram - 603 109	Government High School, Enathur	05 <sup>th</sup> February 2018
16.	Clinical Applications of Biomaterials	Department of Microbiology, Sri Sankara Arts and Science College, Enathur – 631 561	22 <sup>nd</sup> of February 2018

<b>17.</b>	Biofest – 2018	Department of Biochemistry, Indo-American College, Cheyyar - 604 407	4 <sup>th</sup> of October 2018
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### 17. Workshop & Training Programmes:

<b>S.No.</b>	<b>Programe</b>	<b>Venue</b>	<b>Period</b>
<b>1.</b>	Innovative Methodologies in Teaching of Life Science and Biomedical Science Laboratory Courses	Department of Zoology, Cheiyar-604 407	8 <sup>th</sup> March, 2012
<b>2.</b>	PRABODH	Department of Biotechnology, School of Chemical & Biotechnology, Thanjavur-613 401	11 <sup>th</sup> May to 24 <sup>th</sup> May 2012
<b>3.</b>	Summer training	NEERI, CSIR campus, Chennai	May – June 1999
<b>4.</b>	Orientation course for National Service Scheme	Madras School of Social Work, Chennai.	16-25, July, 2003
<b>5.</b>	Bioinformatics training	Gemeiosys (kern Labs), Chennai	19 – 29, April, 2004
<b>6.</b>	Environmental Studies Training underwent regarding Teaching Methodology	UGC – Academic Staff College, Chennai.	19-23, July, 2004
<b>7.</b>	Short term course on TQM	UGC – Academic Staff College, Chennai.	13-17, July, 2010
<b>8.</b>	Refresher Course on Nanoscience	UGC – Academic Staff College, Chennai.	18 <sup>th</sup> Nov – 08 <sup>th</sup> Dec, 2010
<b>9.</b>	Online course in Power searching	Google Inc.	24 <sup>th</sup> September – 10 <sup>th</sup> October 2012
<b>10.</b>	online course on “Clinical Care Severe Acute Respiratory Infection”	Health Emergencies Programme, World Health Organization	12 <sup>th</sup> April, 2020



<b>11.</b>	online course on “Moodle Teaching Basic Program”	Moodle Academy, West Perth, PO Box 303, Australia	20 <sup>th</sup> December, 2023
<b>12.</b>	Faculty Development Program (FDP) on ICT Tools & Techniques for Teaching, Learning process & Institutes	Sri Sankara Arts and Science College, Enathur – 631 561.	13-17 Jan 2020
<b>13.</b>	Faculty Development Program (FDP) and online training program on LaTeX	Sanjay Ghodawat University, Kolhapur with Spoken Tutorial, IIT, Bombay.	27th April to 2nd May 2020
<b>14.</b>	Faculty Development Program (FDP) and online training program on “Managing Online Classes and Co-Creating MOOCs”	Ramanujan College, University of Delhi with MHRD, Government of India	20th April to 6th May 2020
<b>15.</b>	Faculty Development Program (FDP) on “Practical Bioinformatics on a Wet Lab Set Up”	Sathyabama Institute of Science and Technology, IAAM and Georgetown University Medical Center, USA.	11-16 May 2020
<b>16.</b>	Faculty Development Program (FDP) on “Outcome Based Education and Accreditation”	College of Engineering & Technology, IILM Academy of Higher Learning, India.	25-29 May 2020
<b>17.</b>	Faculty Development Program (FDP) and online training program on “Open Source Tools for Research”	Ramanujan College, University of Delhi with MHRD, Government of India.	8th to 14th June 2020
<b>18.</b>	Faculty Enrichment Program (FEP) on Transcending From Fixed To Growth Mindset In Turbulent Times	Sri Sankara Arts and Science College, Enathur – 631 561.	4th July 2020
<b>19.</b>	Faculty Development Program (FDP) on “Online Tools for Teaching and Research”	C. Abdul Hakeem College of Engineering and Technology, Hakeem Nagar, Melvisharam-632 509	27th to 31st July 2020
<b>20.</b>	Faculty Development Program (FDP) on “Latest trends in Teaching Methodology”	Sambhram College of Hotel Management, Bharat Nagar, Kolar, Karnataka 563115	21 <sup>st</sup> April 2021

<b>21.</b>	Faculty Development Program (FDP) on “New Education Policy”	Patrician College of Arts and Science, Chennai-25	3 <sup>rd</sup> May 2021
<b>22.</b>	Faculty Development Program (FDP) on “Revised NAAC Accreditation Framework Perceptions”	GTN Arts College (Autonomous), Dindigul Tamilnadu, India.	12 <sup>th</sup> to 15 <sup>th</sup> May 2021
<b>23.</b>	Faculty Development programme on “Scientific Publications – Preparation of Manuscript”	Department of Biochemistry, Annai Velankanni’s College for Women, Chennai - 600 015	14 <sup>th</sup> July, 2021
<b>24.</b>	Faculty Development Program (FDP) on “Outcome Based Education”	Rajeev Gandhi College of Management Studies, Navi Mumbai, Maharashtra 400701	13 <sup>th</sup> – 19 <sup>th</sup> January 2022
<b>25.</b>	Faculty Development Program (FDP) on “Directions and Dimensions of Accreditation Criteria in the light of NEP for HEIs”	Sri Sankara Arts and Science College, Enathur – 631 561	3-12 Feb 2022
<b>26.</b>	Professional Development Program on “Implementation of NEP-2020 for University and College Teachers”	IGNOU, New Delhi-110 068	23 <sup>rd</sup> Feb 2023 to 3 <sup>rd</sup> March 2023
<b>27.</b>	Faculty Development Program (FDP) on “Inculcating Universal Human Values in Technical Education”	All India Council for Technical Education, Nelson Mendala Marg, Vasant Kunj, NewDelhi	1 <sup>st</sup> to 5 <sup>th</sup> May 2023
<b>28.</b>	Faculty Development Program (FDP) on “OBE and Application of Generative AI in Teaching and Research”	Government College, Kottayam & The Kerala State Higher Education Council (KSHEC), Kerala	6 <sup>th</sup> to 13 <sup>th</sup> March 2024
<b>29.</b>	Faculty Development Program (FDP) on “Deep Learning and Optimization for Healthcare”	The Ministry of Electronics and Information Technology (MeitY), Government of India organized by E & ICT Academy, NIT, Patna and Sri Sankara Arts and Science College, Enathur – 631 561.	24 <sup>th</sup> Feb 2025 – 4 <sup>th</sup> Mar 2025
<b>30.</b>	Faculty Development Program (FDP) on “Advanced Research Methodologies: Strategies for Teaching and Practice”	PG & Research Department of Biochemistry, Sacred Heart College (Autonomous), Tirupattur	30 <sup>th</sup> June 2025 to 07 <sup>th</sup> July 2025

## 18. Projects Completed:

S.No.	Name of the Projects	Period	Grant Received/Status

## 19. Any other Details:

### BOOKS PUBLISHED

- Book titled on “Bioinformatics: Databases and Programming languages” was published by Today Publications, 192, Bells Road, S.R.Complex, Chepauk, Chennai – 600 005 with ISBN no: 978-9380479-19-4 (2009).
- Book titled on “Bioinformatics: Sequence Analysis and Drug Designing” was published by Today Publications, 192, Bells Road, S.R.Complex, Chepauk, Chennai – 600 005 with ISBN no: 978-9380479-18-7 (2009).
- Book titled on “Childhood Asthma: Antioxidant Diagnosis and Management” was published LAP LAMBERT Academic Publishing GmbH & Co. KG, Dudweiler Landstr – 9966123, Saarbrücken, Germany with ISBN no: 978-3-8454-3096-6 (2011).
- Book titled on “Physiology of Cell” was published LAP LAMBERT Academic Publishing GmbH & Co. KG, Dudweiler Landstr – 9966123, Saarbrücken, Germany with ISBN no: 978-3-8454-4057-6 (2011).
- Book titled on “Principles of Analytical Chemistry” was published by Today Publications, 192, Bells Road, S.R.Complex, Chepauk, Chennai – 600 005 with ISBN no: 978-9381992-97-5 (2013).
- Book titled on “Plant Biochemistry” was published by Archers and Elevators Publishing Houses, Bengaluru, Karnataka, India with ISBN no: 978-93-85640-31-5 (2015).
- Book titled on “Biological Databases and Bioinformatics Programming” was published by Mainspringer Publishers, Kanchipuram, Tamilnadu, India with ISBN no: 978-81-928157-4-9 (2017).
- Book titled on “Biological Sequence Analyses and Computer Aided Drug Designing” was published by Mainspringer Publishers, Kanchipuram, Tamilnadu, India with ISBN no: 978-81-928157-5-6 (2017).
- Book titled on “Computational Aspects of Bioinformatics” was published by Mainspringer Publishers, Kanchipuram, Tamilnadu, India with ISBN no: 978-81-928157-7-0 (2018).
- Book titled on “Principles and Applications of Computer Aided Drug Designing” was published by Mainspringer Publishers, Kanchipuram, Tamilnadu, India with ISBN no: 978-81-928157-8-7 (2018).
- Book titled on “Biochemistry – Text Book for XI Standard” was published by Tamil Nadu Text book and Educational Services Corporation (<https://drive.google.com/file/d/1zq0YWQ8uREmU6HXDanjxfpUAa4iAbY7G/view>) (2018).
- Book titled on “Biochemistry – Text Book for XII Standard” was published by Tamil Nadu Text book and Educational Services Corporation (<https://drive.google.com/file/d/13E0JQ95agW7hof49UHUPXBSctB9NVna3/view>) (2019).

### BOOK CHAPTERS

- **Sivakumar S**, Dental care and reproductive genetics and Environmental science, Secondary grade Teachers in-service training programme hand book, December 2004.
- **Sivakumar S**, Immunology and Plant Biology, Higher secondary teachers in-service training Programme hand book, July 2006.

- **Sivakumar S**, Immunology and Nanotechnology, Secondary grade Teachers in-service training programme hand book, October 2007.
- **Sivakumar S**, Stem cells and Its Applications, Secondary grade teachers' in-service training programme hand book, 20-24, December 2010.
- **Sivakumar S**, Health and Nutrition, Application of Science and Technology in Rural Areas (ASTRA 2011-2012) training programme hand book, 20-25, February 2012.
- **Subramaniam Sivakumar**, Panneerselvam Punniyakotti, Kuppuswamy Kavitha, and Panneerselvam Saravanan. 2023. "Concepts and Types of Vaccines." In Title of Book: Elumalai, P., Thompson, K., and Lakshmi, S. (Eds.). (June, 2023). Fish Vaccines: Health Management for Sustainable Aquaculture (1st ed.). CRC Press. <https://doi.org/10.1201/9781003388548-6>.
- Abdullah Bin Abdul Nazar, Muhammed Salih Salim, Anuj Sharma, Sanchu Prakash, Malavika Biju Reni, Meril Mary Mathew, Muzammil Siddiqui, **Subramaniam Sivakumar**, Sreeja Lakshmi, Preetham Elumalai. 2023. "Novel Advancements in Vaccine Delivery and Methods of Vaccination" In Title of Book: Elumalai, P., Thompson, K., and Lakshmi, S. (Eds.). (2023). Fish Vaccines: Health Management for Sustainable Aquaculture (1st ed.). CRC Press. <https://doi.org/10.1201/9781003388548-8>.
- **Subramaniam Sivakumar**, C. Shanmuga Sundaram, Maderi Velayutham Dassprakash, Rantham Subramaniam Venkatesan, 2023. "Immunomodulators - Mode of Action". In Title of Book: Elumalai, P., Soltani, M., and Lakshmi, S. (Eds.). (Oct, 2023). Immunomodulators in Aquaculture and Fish Health (1st ed.). CRC Press. <https://doi.org/10.1201/9781003361183-4>.
- Ramchandran Ishwarya, Baskaralingam Vaseeharan, Rengarajan Jayakumar, **Subramaniam Sivakumar**, Preetham Elumalai, 2023. "Immunomodulation in Aquaculture Health Management - Opportunities and Obstacles". In Title of Book: Elumalai, P., Soltani, M., and Lakshmi, S. (Eds.). (2023). Immunomodulators in Aquaculture and Fish Health (1st ed.). CRC Press. <https://doi.org/10.1201/9781003361183-8>. 1032407387

## EDITORIAL BOARD

- ❖ Editorial Board member as Associate Editor for the journal "Bhamathi – Microbiology News Letter" (ISSN: 2231-136X) Volume -2, Issue-1, January-July 2012.
- ❖ Editorial Board member as Associate Editor for the Proceedings "Proceedings of Elixir-2012" (ISBN:978-93-81992-03-6) published by Research and Seminar Committee, Sri Sankara Arts and Science College, Enathur during 10<sup>th</sup> and 11<sup>th</sup> October 2012.
- ❖ Editorial Board member as Associate Editor for the journal "Bhamathi – Microbiology News Letter" (ISSN: 2231-136X) Volume -2, Issue-, August-December 2012.
- ❖ Editorial Board member as Associate Editor for the journal "Bhamathi – Microbiology News Letter" (ISSN: 2231-136X) Volume -3, Issue-1, January-July 2013.
- ❖ Editorial Board member as Executive Editor for the journal "International Journal of Current Biotechnology" (ISSN: 2321-8371) Volume -1, Issue-1, March 2013.
- ❖ Editorial Board member as Section and Layout Editor for the journal "Asian Journal of English and Linguistics (AJEL)" Volume -1, Issue-1, June 2013.
- ❖ Editorial Board member as Associate Editor for the journal "Bhamathi – Microbiology News Letter" (ISSN: 2231-136X) Volume -3, Issue-2, August-December 2013.

- ❖ Editorial Board member as Chief Editor for the journal “International Journal of Applied Biochemistry (IJAB)” (ISSN: 2349-5421) Volume -1, Issue-1, December 2013.
- ❖ Editorial Board member as Executive Editor for the journal “International Journal of Comprehensive Nursing (IJCN)” (ISSN: 2349-5413) Volume -1, Issue-1, June, 2014.
- ❖ Editorial Board member as Associate Editor for the journal “Bhamathi – Microbiology News Letter” (ISSN: 2231-136X) Volume -4, Issue-1, January – July, 2014.
- ❖ Publication team member in a monthly magazine for competitive exams “Commerce Express”, volume no: 1, issue no: 2 (Registration No: 717/14).
- ❖ Editorial Board member as Associate Editor for the journal “Bhamathi – Microbiology News Letter” (ISSN: 2231-136X) Volume -5, Issue-1, January – July, 2015.

## PAPERS PRESENTED

- Paper on “Bitter Gourd (*Momordica charantia*) Peroxidase in Decolorization of Dyes from Tannery Effluent” was presented in International level technical symposium Crosslinx’10 which was organized by CLRI, Chennai – 600 025 during 17<sup>th</sup> – 19<sup>th</sup> February 2010 (Second Prize).
- Paper on “Insilico Drug Designing against Tuberculosis” was presented in National Symposium on Antituberculosis Drug Discovery (NSADD) organized by Department of Bacteriology, TRC was held at Chennai during 30<sup>th</sup> October 2010.
- Paper on “Drug Designing” was presented in International Conference on Gene Therapy and Phytotherapy in Modern Medicine which was organized by Adhiparasakthi College of Arts and Science, Kalavai – 632 506 during 4<sup>th</sup> January 2011.
- Paper on “Enzymatic and Non-enzymatic anti-oxidant levels in breast cancer patients” was presented in National Conference on “The Role of Free Radicals in Health and Diseases” which was organized by Department of Biochemistry, University of Madras, Guindy Campus, Chennai-600 025 during 27<sup>th</sup> – 28<sup>th</sup> January 2012.
- Paper on “Role of Nanoparticles in Drug Delivery” was presented in “TECH BLAST - 2012” which was organized by Department of Computer Science, Sri Sankara Arts and Science College, Enathur during 15<sup>th</sup> and 16<sup>th</sup> February 2012.
- Paper on “DNA vaccine target identification using hepatitis B surface protein gene for hepatitis by using BioLign Tool” was presented in National Conference on “Current Scenario and Emerging Trends in Hepatocellular Disease (NC-HepCD) - 2012” which was organized by Department of Biochemistry and Molecular Biology, Pondicherry University, Pondicherry-605 014 during 5<sup>th</sup> – 6<sup>th</sup> October 2012.
- Paper on “Identification of DNA Vaccine Target for Hepatitis B Virus through Multiple Sequence Alignment” was presented in One Day National Conference On “Recent Advances and Current Trends

In Bioscience” was organized by Department of Biochemistry, Asan Memorial College of Arts and Science, Chennai – 600 100 was held at Chennai on 8<sup>th</sup> February, 2013 (Third Prize).

- Paper on “Insilico identification of novel polynucleotide vaccine target across avian flu viral vaccine strains” was presented in National Seminar on “Emerging Trends in Microbial Biotechnology” organized by Department of Microbiology, Kanchi Shri Krishna College of Arts and Science, Kilambi – 631 551 was held at Kilambi during 20<sup>th</sup> and 21<sup>st</sup> February 2013.
- Paper on “Significance of minerals in breast cancer patients of TamilNadu” was presented in One Day National Conference On “Environmental and Molecular Toxicology” was organized by Department of Biochemistry, Indo-American College, Cheyyar – 604 407 was held at Cheyyar on 2<sup>nd</sup> March, 2013.
- Paper on “Identification of new breast cancer biomarker – Osteopontin-D” was presented in International Conference on “Recent Trends in Life Science” which was organized by Auxilium College, Vellore – 632 006 during 12<sup>th</sup> – 13<sup>th</sup> December 2013.
- Paper on “Decolorization of Textile dye by *Momordica charantia* peroxidase (MCP) – Phytoremediation” was presented in National Conference on “Sustainable Innovations In Industrial Waste Management (Greenotech2014)” which was organized by Department of Lifesciences, Hindustan College of Arts and Science, Chennai – 603 103 during 28<sup>th</sup> January 2014.
- Paper on “DNA Vaccine target identification against HIV viral strains using pairwise and multiple sequence alignment tool” was presented in National seminar on “Recent Advances in Biotechnology and Applied Microbiology” which was organized by Kanchi Shri Krishna College of Science, Kilambi – 631 551 during 3<sup>rd</sup> – 4<sup>th</sup> March 2014.
- Paper on “Phytoremediation of Tannery Effluent using *Momordica Charantia* Peroxidase” was presented in National seminar on “Innovative Research in Biological Science (NSIRBS)” which was organized by Govt. Thirumagal Mills College, Gudiyatham – 632 604 during 19<sup>th</sup> December 2014.
- Paper on “Determination of new splice variant in breast cancer patients – Osteopontin-D” was presented in International seminar on “Scitech-15” which was organized by Nadar Saraswathi college of Arts and Science, Theni – 625 531 during 21<sup>st</sup> January 2015.
- Paper on “Determination of biopesticide azadirachtin by HPLC in *Azadirachta indica*, *Murraya koenigii* and *Curcuma longa* - Medicinal plants” was presented in National Seminar on “Emerging Trends in Microbial and Environmental Biotechnology” organized by Department of Microbiology, Kanchi Shri Krishna College of Arts and Science, Kilambi – 631 551 was held at Kilambi during 6<sup>th</sup> March 2015.
- Paper on “Decolorization of tannery effluent through biological conversion process by *Cucumis sativus* fruit extract - Phytoremediation” was presented in National Conference on “Emerging Trends and New Challenges in Biotechnology - Bioenergy” organized by PG and Research Centre in Biotechnology, M.G.R College, Hosur – 635 109 was held at Hosur during 18<sup>th</sup> and 19<sup>th</sup> February 2016.
- Paper on “Computational interaction analysis of Pesticide Permethrin with different Metabolic Proteins in Humans – Nanomolecular interaction studies” was presented in International Conference on Frontiers in Nano Biotechnology (ICFNB’17) held on September, 8 and 9<sup>th</sup>, 2017, Department of

Biotechnology and Bioinformatics, Bishop Heber College (Autonomous), Tiruchirappalli, Tamil Nadu, India.

- Paper on “Identification of New Target and Drug against *Salmonella typhi* using Homology and Docking Studies” was presented in National Conference on Interdisciplinary Research and Innovations in Biosciences (NATCON 2018) held on 24<sup>th</sup> and 25<sup>th</sup> January, 2018, Department of Biochemistry, Mohamed Sathak College of Arts and Science (Autonomous), Chennai 600 119, Tamil Nadu, India.
- Paper on “Determination of Anticancer activity of *Triticum aestivum* grass aqueous extract” was presented in International Conference on Integrative nature of life science and its challenges in Research held on 6<sup>th</sup> September, 2019, Department of Biochemistry, Theivanai Ammal College for Women (Autonomous), Villupuram.
- Paper on “Identification of Potential Drug against Lung Cancer using Epidermal Growth Factor Receptor Target Through QSAR Studies” was presented in National Conference Biochemical and Molecular Basis of Cancer held on 19<sup>th</sup> October, 2019, Department of Biochemistry, MMCH and RI of MAHER University, Enathur.

## POSTER PRESENTED

- ✚ Poster on “Parkin reduces  $\alpha$ -synclin phosphorylation in Parkinson’s disease” was presented in National Seminar on “Cellular and Molecular Neurobiology in Health and Diseases” which was organized by Department of Biochemistry, Maraimalai Campus, Guindy, University of Madras during 11<sup>th</sup> – 12<sup>th</sup> February 2011.
- ✚ Poster on “Enzymatic and Non-enzymatic anti-oxidants levels in Breast Cancer Patients of Tamilnadu” was presented in National Seminar on “Recent Advances in Biomedical Research on Infectious and Non-infectious Diseases” which was organized by Department of Biomedical Science, Bharathidasan University, Trichy-24 during 13<sup>th</sup> – 14<sup>th</sup> October 2011.
- ✚ Poster on “Drug designing against HIV” was presented in National Seminar on “Recent Advances in Microbial Biotechnology” which was organized by Department of Microbiology and Department of Biotechnology, Sri Sankara Arts and Science College, Enathur during 6<sup>th</sup> December 2011.
- ✚ Poster on “New therapeutic strategies for diabetes mellitus” was presented in National Conference on “Diabetes and its Implications” which was organized by Department of Biochemistry, Ethiraj College for Women, Chennai on 31<sup>st</sup> January 2012.
- ✚ Poster on “Inherited disorders of hepatocellular origin – Glycogen storage diseases (GSDs)” was presented in National Conference on “Current Scenario and Emerging Trends in Hepatocellular Disease (NC-HepCD) - 2012” which was organized by Department of Biochemistry and Molecular Biology, Pondicherry University, Puducherry - 605 014 during 5<sup>th</sup> – 6<sup>th</sup> October 2012.

- ✚ Poster on “Stem cells and their potential applications in regenerative medicine” was presented in “ELIXIR - 2012” which was organized by Life Science Departments, Sri Sankara Arts and Science College, Enathur during 10<sup>th</sup> and 11<sup>th</sup> October 2012.
- ✚ Poster on “Biotreatment of Tannery Industrial Effluent using *Momordica Charantia* - Phytoremediation” was presented in National Symposium on “Entrepreneurship Development for Life sciences ED Bioz'13” which was organized by Department of Biochemistry, Adhiparasakthi College of Arts and Science (Autonomous), Kalavai – 632 506 was held at Kalavai during 23<sup>rd</sup> January, 2013.
- ✚ Poster on “Overview of occurrence, symptoms and prevention of breast cancer” was presented in two day National Seminar cum Conference on “Applications of green technologies for separation bioproducts” which was organized by Department of Biotechnology, Sree Sasta Institute of Engineering and Technology, Chembarabakam, Chennai – 600 123 was held at Chennai during 02<sup>nd</sup> and 03<sup>rd</sup> September, 2015.
- ✚ Poster on “Identification of novel drug against chickengunya virus through in-silico approach” was presented in one day National Conference on “Unravelling Biometabolites with Bioactivity (NCUBB'19)” which was organized by Department of Biotechnology and Bioinformatics, Bishop Heber College (Autonomous), Tiruchirappalli, was held at Trichy on 25<sup>th</sup> February, 2019.
- ✚ Poster on “Determination of potential target and drug for influenza through molecular docking studies” in two days National Seminar on “Industry Academia Connect and Design Exhibit (IACDE-2020)” which was organized by Department of Bioscience, Rathinam College of Arts and Science (Autonomous), Coimbatore, was held at Coimbatore on 8<sup>th</sup> and 9<sup>th</sup> January, 2020.

## DATABASE SEQUENCE PUBLISHED

- ◆ Nucleotide sequence of *Cucumis sativus* ascorbate peroxidase-like gene, partial sequence was published on 28<sup>th</sup> July 2010 in Genbank database with Accession No: HM053977, GI:300217177.
- ◆ Nucleotide sequence of *Momordica charantia* ascorbate peroxidase-like gene, partial sequence was published on 28<sup>th</sup> July 2010 in Genbank database with Accession No: HM053978 GI:300217178.
- ◆ Nucleotide sequence of *Bacillus subtilis* strain AL2 16S ribosomal RNA gene, partial sequence was published on 12<sup>th</sup> July 2010 in Genbank database with Accession No: HM053974.1 GI:300217174.
- ◆ Nucleotide sequence of *Bacillus subtilis* strain AL2 alkaline lipase-like gene, complete sequence was published on 12<sup>th</sup> July 2010 in Genbank database with Accession No: HM053975.1 GI:300217175.
- ◆ Nucleotide sequence of *Homo sapiens* osteopontin-C mRNA, partial cds, alternatively spliced was published on 5<sup>th</sup> April 2011 in Genbank database with Accession No: HQ874460.1 GI:327323282.
- ◆ Nucleotide sequence of *Homo sapiens* osteopontin-D mRNA, partial cds, alternatively spliced was published on 5<sup>th</sup> April 2011 in Genbank database with Accession No: HQ874461.1 GI:327323284.



- ◆ Nucleotide sequence of *Homo sapiens* matrix metalloproteinase-9 mRNA, partial cds was published on 5<sup>th</sup> April 2011 in Genbank database with Accession No: HQ874462.1 GI:327323286.
- ◆ Nucleotide sequence of *Homo sapiens* osteopontin-D mRNA, complete cds, alternatively spliced was published on 5<sup>th</sup> April 2011 in Genbank database with Accession No: JF412666.1 GI:327323288.
- ◆ Nucleotide sequence of *Homo sapiens* osteopontin-C mRNA, complete cds, alternatively spliced was published on 5<sup>th</sup> April 2011 in Genbank database with Accession No: JF412667.1 GI:327323290.
- ◆ Nucleotide sequence of *Homo sapiens* TNF receptor-associated protein 1, partial cds, was published on 2<sup>nd</sup> Oct 2012 in Genbank database with Accession No: JX481354.1 GI:407033516.
- ◆ Nucleotide sequence of *Cucumis sativus* ascorbate peroxidase gene, complete cds, was published on 23<sup>rd</sup> Apr 2013 in Genbank database with Accession No: KC839995.1 GI: 479280229.
- ◆ Nucleotide sequence of *Momordica charantia* ascorbate peroxidase gene, complete cds, was published on 23<sup>rd</sup> Apr 2013 in Genbank database with Accession No: KC839996.1 GI: 479280231.
- ◆ Protein sequence of *Homo sapiens* osteopontin-C, 61aa was published on 5<sup>th</sup> April 2011 in Genpept database with Accession No: AEA49027.1 GI:327323283.
- ◆ Protein sequence of *Homo sapiens* osteopontin-D, 47aa was published on 5<sup>th</sup> April 2011 in Genpept database with Accession No: AEA49028.1 GI:327323285.
- ◆ Protein sequence of *Homo sapiens* matrix metalloproteinase-9, 13 aa was published on 5<sup>th</sup> April 2011 in Genpept database with Accession No: AEA49029.1 GI:327323287.
- ◆ Protein sequence of *Homo sapiens* osteopontin-D, 292aa was published on 5<sup>th</sup> April 2011 in Genpept database with Accession No: AEA49030.1 GI:327323289.
- ◆ Protein sequence of *Homo sapiens* osteopontin-C, 287aa was published on 5<sup>th</sup> April 2011 in Genpept database with Accession No: AEA49031.1 GI:327323291.
- ◆ Protein sequence of *Homo sapiens* TNF receptor-associated protein 1, 676 aa was published on 2<sup>nd</sup> Oct 2012 in Genpept database with Accession No: AFS69159.1 GI:407033517.
- ◆ Protein sequence of *Cucumis sativus* ascorbate peroxidase, 249 aa, was published on 23<sup>rd</sup> Apr 2013 in Genpept database with Accession No: AGJ72850.1 GI: 479280230.
- ◆ Protein sequence of *Momordica charantia* ascorbate peroxidase, 249 aa, was published on 23<sup>rd</sup> Apr 2013 in Genpept database with Accession No: AGJ72851.1 GI: 479280232.
- ◆ A Popset data was deposited at NCBI with POPSET No: 327323288 on the topic "Osteopontin splice variants in Indian breast cancer patients as biomarker".
- ◆ A mi-RNA sequences were submitted at Gene Expression Omnibus (GEO) of NCBI with GEO id GSE124060 was published on 19<sup>th</sup> Dec 2018.
- ◆ A mi-RNA sequences of normal leukocytes were submitted at Gene Expression Omnibus (GEO) of NCBI with GEO id GSM3519899 was published on 19<sup>th</sup> Dec 2018.
- ◆ A mi-RNA sequences of fibrotic leukocytes were submitted at Gene Expression Omnibus (GEO) of NCBI with GEO id GSM3519900 was published on 19<sup>th</sup> Dec 2018.

## MEMBERSHIP

- Served as the Professional Member of International Association of Distance and Online Education managed by Bestow Edutrex International, Malad, Mumbai-64 during 2020-2021

## INTERNATIONAL PROJECT COLLABORATION

- Served as the Collaborator of Bioinformatics part of the project on “Characterization of key molecular genetic alterations in Breast Cancer” with the Principal investigator Dr. Dasgupta Santanu, UT Health Northeast, 11937 US Highway 271, Tyler, TX 75708-3154.

## WEB SITE MAINTAINED

1. Lecture Notes – <http://biosiva.50webs.org/>
2. Job for Lifescience students – <http://joblifescience.blogspot.in/>
3. Scholarship details – <http://lifesciencescholorship.blogspot.in/>
4. Scientific Inventions and News - <http://biosiva.blogspot.in/>

## LECTURE NOTES

1. Cell signaling
2. Physiology of cell
3. Molecular Biology
4. Immunology
5. Nutritional Biochemistry
6. Cell and Molecular Biology
7. Bioinformatics
8. Human Physiology
9. Pharmaceutical Biochemistry

## LAB MANUALS

1. Lab Manual Part I
2. Lab Manual Part II
3. Lab Manual for Practical III

## PARTICIPATION IN ACADEMIC AND ADMINISTRATIVE COMMITTEES AT COLLEGE LEVEL

1. Examination Committee - Convenor
2. Attendance Committee - Convenor
3. Research Committee – Convenor
4. Stock verification Committee – Convenor
5. Value added course – Convenor
6. IQAC Committee – Member
7. NAAC Steering Committee – Member
8. Autonomous Steering Committee – Member

## ROLE OF EXAMINER

- Served as Chief Invigilators for TNPSC Examinations from 2007- 2018.
- Served as Question Paper Setter for Bharathidasan University, Thiruvalluvar University, SRM University, St. Joseph College of Arts and Science (Autonomous) and DKM College for Women.
- Served as Answer Sheet Evaluator for Madras University, Bharathidasan University, Ethiraj College for Women (Autonomous) and St. Joseph College of Arts and Science (Autonomous).
- Served as Practical Examiner for Madras University, Ethiraj College for Women (Autonomous) and Bharathidasan University.
- Served as Additional to Chief Superintendent and Assistant Chief Examiner for Madras University Theory Examinations.

## JOURNAL REVIEWER

- Served as Reviewer for the Journal “International Journal of Tropical Disease and Health” during 13<sup>th</sup> June, 2020.
- Served as Reviewer for the Journal “Asian Plant Research Journal” during 29<sup>th</sup> September, 2020.
- Served as Reviewer for the Journal “Current Journal of Applied Science and Technology” during 29<sup>th</sup> September, 2020.
- Served as Reviewer for the Journal “PLOS ONE” during 24<sup>th</sup> January, 2021.
- Served as Reviewer for the Journal “Journal of Pharmaceutical Research International” during 10<sup>th</sup> January, 2022.
- Served as Reviewer for the Journal “Journal of Disease and Global Health” during 12<sup>th</sup> October, 2023.
- Served as Reviewer for the Journal “Asian Journal of Research and Reports in Gastroenterology” during 20<sup>th</sup> October, 2023.
- Served as Reviewer for the Journal “Uttar Pradesh Journal of Zoology” during 22<sup>nd</sup> May, 2024.
- Served as Reviewer for the Journal “Journal of Cancer Research and Clinical Oncology” during 17<sup>th</sup> June, 2024.
- Served as Reviewer for the Journal “International Research Journal of Pure and Applied Chemistry” during 06<sup>th</sup> August, 2024.

- Served as Reviewer for the Journal “Asian Journal of Biotechnology and Bioresource Technology” during 06<sup>th</sup> August, 2024.
- Served as Reviewer for the Journal “International Journal of Environment and Climate Change” (ISSN: 2581-8627) during 23<sup>rd</sup> December, 2024.
- Served as Reviewer for the Journal “Journal of Material Science Research and Reviews” during 20<sup>th</sup> February, 2025.
- Served as Reviewer for the Nature Journal “Scientific Reports” (ISSN 2045-2322 (online)) during 1<sup>st</sup> April, 2025.
- Served as Reviewer for the Springer Journal “Cell biology and Toxicology” (ISSN 0742-2091) during 1<sup>st</sup> April, 2025.
- Served as Reviewer for the Springer Journal "Naunyn-Schmiedeberg's Archives of Pharmacology" (ISSN 0028-1298) during 9<sup>th</sup> May, 2025.
- Served as Reviewer for the Nature Journal "Scientific Reports" (ISSN 2045-2322 (online)) during 4<sup>th</sup> June, 2025.

### **VIDEO LECTURE REVIEWER**

- Served as Reviewer for the Digital Video Lessons of Biochemistry Subject of Tamil Nadu State Board Higher Secondary Text Books during 24<sup>th</sup> September, 2020 for Home Schooling Program by SCERT, Tamil Nadu.

### **ONLINE CONTENT DEVELOPER**

- ✓ Served as Online Tamil Content Developer for the Digital Video Lessons of 12<sup>th</sup> Standard Biochemistry Subject of Tamil Nadu State Board Higher Secondary during 16<sup>th</sup> – 30<sup>th</sup> June, 2021 for DIET, Pudhukottai, Tamil Nadu.

### **PATENT DETAILS**

- Patent on “Role of Artificial Intelligence in the Education Field”, published in the Patent Office Journal No.21/2025; on 23/05/2025 (Application Number - 202521019133).  
<https://search.ipindia.gov.in/IPOJournal/Journal/Patent>