SRI SANKARA ARTS & SCIENCE COLLEGE ENATHUR, KANCHIPURAM

STAFF PROFILE





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

10. Work Experience (in chronological order):

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

11. Other Academic and Administrative Responsibilities:

S.No.	Name of the Institution/Committee	Position	Period
1.	Sri Sankara Arts and Science College, Enathur – 631 561	NSS Programme Officer	2002-2005
2.	Sri Sankara Arts and Science College, Enathur – 631 561	Coordinator, Advanced Diploma in Bioinformatics, Value added course.	2009-Till date
3.	Sri Sankara Arts and Science College, Enathur – 631 561	Head i/c, Department of Microbiology.	2009-2010
4.	Sri Sankara Arts and Science College, Enathur – 631 561	Coordinator, Environmental Studies.	2009 – Till date
5.	Sri Sankara Arts and Science College, Enathur – 631 561	Staff Representative, College Management Committee.	2011 – Till date
6.	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
7.	Sri Sankara Arts and Science College, Enathur – 631 561	Academic Council Member	2015 – Till date
8.	University of Madras	Academic Council Member	2017 – 2020
9.	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 – 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 Gymnema Sylvestre 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 (IJCB) (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.	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
12.	Identification of New Inhibitor against <i>Mycobacterium</i> tuberculosis 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
13.	Identification of Microbes Degrading Bifenthrin Using Pathway Prediction System	Bhamathi Microbiology News Letter (Print ISSN: 2231-136X)	7(1):16-22, 2017

14.	Identification of Potential Drug Target by QSAR for HIV	Bhamathi Microbiology News Letter (Print ISSN: 2231-136X)	7(1):29-33, 2017
15.	Identification of new snake venom zinc Metalloproteinase inhibitor using docking studies from Plectanthus amboinicus	Asian Journal of Research in Pharmaceutical Sciences [AJPSci] (Print ISSN: 2231–5640; Online ISSN: 2231–5659)	7(3):132-134, 2017
16.	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) (UGC journal no: 43602)	5(4):598u-602u, 2018
17.	Cancer Testis Antigen Promotes Triple Negative Breast Cancer Metastasis and is Traceable in the Circulating Extracellular Vesicles	Sci Rep. (Online ISSN: 2045-2322) (UGC-CARE List Group A: 8334)	2019 Aug 12;9(1):11632. doi: 10.1038/s41598-019-48064-w
18.	1,2,4 triazolo[1,5-a] pyrimidin-7- ones as novel SARS-CoV-2 Main protease inhibitors: In silico screening and molecular dynamics simulation of potential COVID-19 drug candidates	Biophysical Chemistry. (ISSN: 0301-4622; E-ISSN: 1873-4200) (UGC-CARE List 2020 Group II Journal).	2020 September. 267 (2020) 106478. doi:10.1016/j.bpc.2020.106478.

13. Awards / Distinction:

S.No.	Name of the Award	Venue	Period
1.	Facutly Award	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:

Sl. 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

15. Seminars Conferences organized /Participation:

SI. 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	Oct, 2006
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 st Jan 2009
6.	Elixir – 2010 Science Exhibitio	Sri Sankara Arts and Science College, Enathur	Organized	14 th Oct 2010
7.	Frontiers in Lifesciences	Sri Sankara Arts and Science College, Enathur	Organized	11 th Jan 2012
8.	ASTRA 2011-2012	Sri Sankara Arts and Science College, Enathur	Organized	20 th – 25 th Feb 2012

9.	Elixir – 2012	Sri Sankara Arts and Science College, Enathur	Organized	10 th – 11 th Oct 2012
10.	Elixir – 2013	Sri Sankara Arts and Science College, Enathur	Organized	9 th – 10 th Oct 2013
11.	Emerging facts in Diabetes Mellitus	Sri Sankara Arts and Science College, Enathur	Organized	29 th January, 2015
12.	Biomarkers in Clinical Research (BCR - 2017)	Sri Sankara Arts and Science College, Enathur	Organized	8 th March, 2017
13.	Recent Strategies in Regenerative Therapy	Sri Sankara Arts and Science College, Enathur	Organized	8 th March, 2018
14.	National workshop on Fundamentals of Medical Coding	Sri Sankara Arts and Science College, Enathur	Organized	8 th March, 2019
15.	National Quiz on COVID19 Awareness	Sri Sankara Arts and Science College, Enathur	Organized	1-6 May, 2020
16.	National Seminar on "Traditional System of Medicine in Modern Healthcare"	Sri Sankara Arts and Science College, Enathur	Organized	2 nd January, 2021
17.	Indian Youth and Communal Harmony	S.K's Educational Academy	Participated	18 th September, 2003
18.	International Conference on Mahabharata	Kanchi Kamakoti Peetam and M.O.P Vaishnav College	Participated	23 rd -28 th December, 2003
19.	New Frontiers and Current trends in Biotechnology	Department of Biochemistry, Madras University, Guindy Campus	Participated	18 th -19 th October, 2008
20.	Crosslinx'10	CLRI, Chennai – 600 025	Participated	17 th – 19 th February, 2010
21.	Neophyte – 2010	Department of Biotechnology, SSASC	Participated	18 th August, 2010
22.	National Symposium on Antituberculosis Drug Discovery (NSADD)	Department of Bacteriology, TRC	Participated	30 th October, 2010

23.	International Conference on Gene Therapy and Phytotherapy in Modern Medicine	Adhiparasakthi College of Arts and Science, Kalavai – 632 506	Participated	4 th January, 2011
24.	Agricultural and Environmental Concerns – Role of Education	Knowledge Xchange, Chennai	Participated	4 th February, 2011
25.	Cellular and Molecular Neurobiology in Health and Diseases	Department of Biochemistry, Maraimalai Campus, Guindy, University of Madras	Participated	11 th – 12 th February 2011
26.	Advanced Molecular Techniques and its Applications	Department of Molecular Oncology, Cancer Institute (WIA), Chennai	Participated	7 th August 2011
27.	Recent Advances in Biomedical Research on Infectious and Non-infectious Diseases	Department of Biomedical Science, Bharathidasan University, Trichy-24	Participated	13 th – 14 th October 2011
28.	The Role of Free Radicals in Health and Diseases	Department of Biochemistry, University of Madras, Guindy Campus, Chennai-600 025	Participated	27 th – 28 th January, 2012
29.	Emerging Horizons in Biotechnology – Challenges and Prospects	Department of Biotechnology, Alpha Arts and Science College, Chennai was held at Chennai	Participated	20 th and 21 st September, 2012
30.	Entrepreneurship Development for Life sciences ED Bioz'13	Department of Biochemistry, Adhiparasakthi College of Arts and Science (Autonomous), Kalavai – 632 506	Participated	23 rd January, 2013
31.	Emerging Trends in Microbial Biotechnology	Department of Microbiology, Kanchi Shri Krishna College of Arts and Science, Kilambi – 631 551	Participated	20 th and 21 st February 2013
32.	Recent Trends in Life Science	Auxilium College, Vellore – 632 006	Participated	12 th – 13 th December 2013
33.	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 th – 28 th February 2014
34.	National seminar on Innovative Research in Biological Science (NSIRBS)	Govt. Thirumagal Mills College, Gudiyatham – 632 604	Participated	19 th December 2014

		T		I -th
35.	Emerging Trends in Microbial and Environmental Biotechnology	Department of Microbiology, Kanchi Shri Krishna College of Arts and Science, Kilambi – 631 551	Participated	6 th March 2015
36.	Current Advances in Immunology Research	Centre of Advanced Study in Marine Biology, Faculty of Marine Sciences, Annanmalai Universtiy, Parangipettai	Participated	07 th and 08 th August, 2015
37.	Applications of green technologies for separation bioproducts	Department of Biotechnology, Sree Sasta Institute of Engineering and Technology, Chembarabakam, Chennai – 600 123	Participated	02 nd and 03 rd September, 2015
38.	Frontier Research in Applied Biology and Environmental Sciences	Department of Biochemistry, King Nandhivarman College of Arts and Science, Thellar	Participated	30 th January, 2016
39.	Emerging paradigm in cancer therapy	Indo-American College, Cheyyar – 604 407	Participated	17 th August, 2016
40.	Biopharmaceuticals Pharm Bioz'17	PG and Research Department of Biochemistry, Adhiparasakthi College of Arts and Science (Autonomous), Kalavai – 632 506	Participated	31 st January, 2017
41.	International Conference on Frontiers in Nano Biotechnology (ICFNB'17)	Department of Biotechnology and Bioinformatics, Bishop Heber College (Autonomous), Tiruchirappalli	Participated	8 th and 9 th September, 2017
42.	International Symposium on Health Care System in Cancer Biology	Adhiparasakthi College of Arts and Science, Kalavai – 632 506	Participated	20 th September, 2017
43.	One day National Conference on "Unravelling Biometabolites with Bioactivity (NCUBB'19)"	Department of Biotechnology and Bioinformatics, Bishop Heber College (Autonomous), Tiruchirappalli	Participated	25 th February, 2019
44.	One day Workshop on "The Art of Writing Winnable Project Proposals"	Department of Biotechnology, Sri Sankara Arts and Science College, Enathur	Participated	12 th July, 2019
45.	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 th September, 2019

46.	Two days National Conference	PG and Research	Participated	4 th and 5 th
	on "Recent Trends in Life	Department of		October, 2019.
	Sciences"	Biochemistry and		
		Department of		
		Microbiology,		
		Bhaktavatsalam		
		Memorial College for		
		Women, Chennai		
47.	One day International	PG & Research	Participated	27 th January, 2020
	Conference on Advances in	Department of		
	Medical Science and Molecular	Microbiology, Idhaya		
	Biology (AMSMB-20)	College for Women,		
		Kumbakonam		

16. Participated as Resource Person:

S.No.	Program	Venue	Period
1.	Inservice Training Programme for Secondary Grade Teachers	Sri Sankara Arts and Science College, Enathur	06-10 December 2004
2.	Inservice Training Programme for Govt. Higher Secondary School Biology Teachers	Sri Sankara Arts and 27-29 July 200 Science College	
3.	Inservice Training Programme for Secondary Grade Science Teachers	Sri Sankara Arts and Science College	8-11 October 2007
4.	Scientific Awareness Programme for School students of Kanchipuram, Thiruvallur and Vellore Districts	Sri Sankara Arts and Science College	28 th December 2007
5.	Biotechnology Research Division	Thirumalai Chemicals Ltd, Ranipept, TamilNadu	5 th April 2008
6.	Drug Discovery	Biomedical Science Department, Bharathidasan University, Thiruchirappali	
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	
9.	Special Lecture delivered in NSS Special Camp for NSS Volunteers	Government High School, 23 January 20 Enathur	

10.	Special Lecture delivered in Two days state level intensive orientation camp for NSS Volunteers	Sri Sankara Arts and Science College	14-15 December 2012
11.	Special Lecture delivered in Special Campp for NSS Volutneers	Sri Sankara Arts and Science College	29 January 2014
12.	Biodiversity	Theivanai Ammal College for Women (Autonomous), Villupuram	
13.	Structure Based Drug Design	Department of Biotechnology, University of Madras, Chennai - 600 025	23 rd and 24 th of March 2017
14.	Recent Trends in Biochemistry	Department of Biochemistry, Annai Therassa Arts and Science College, Thirukazhukundram - 603 109	5 th of October 2017
15.	Department of Biochemistry, Annai Therassa Arts and Science College, Thirukazhukundram - 603 109	Government High School, Enathur	05 th February 2018
16.	Clinical Applications of Biomaterials	Department of Microbiology, Sri Sankara Arts and Science College, Enathur – 631 561 22 nd of February 2018	
17.	Biofest – 2018	Department of Biochemistry, Indo- American College, Cheyyar - 604 407	4 th of October 2018

17. Workshop & Training Programmes:

S.No.	Programe	Venue	Period
1.	Innovative Methodologies in Teaching of Life Science and Biomedical Science Laboratory Courses	Department of Zoology, Cheiyar-604 407	8 th March, 2012
2.	PRABODH	Department of Biotechnology, School of Chemical & Biotechnology, Thanjavur-613 401	11 th May to 24 th May 2012
3.	Summer training	NEERI, CSIR campus, Chennai	May – June 1999
4.	Orientation course for National Service Scheme	Madras School of Social Work, Chennai.	16-25, July, 2003

5.	Bioinformatics training	Gemeiosys (kern Labs), Chennai	19 – 29, April, 2004	
6.	Environmental Studies Training underwent regarding Teaching Methodology	UGC – Academic Staff College, Chennai.	19-23, July, 2004	
7.	Short term course on TQM	UGC – Academic Staff College, Chennai.	13-17, July, 2010	
8.	Refresher Course on Nanoscience	UGC – Academic Staff College, Chennai.	18 th Nov – 08 th Dec, 2010	
9.	Online course in Power searching	Google Inc.	24 th September – 10 th October 2012	
10.	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	
11.	"Severe Acute Respiratory Infection (SARI) Treatment Facility Design"	Health Emergencies Programme, World Health Organization	12 th April, 2020	
12.	Faculty Development Program (FDP) and online training program on LaTeX	Sanjay Ghodawat University, Kolhapur with Spoken Tutorial, IIT, Bombay.	27 th April to 2 nd May 2020	
13.	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	20 th April to 6 th May 2020	
14.	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	
15.	Faculty Development Program (FDP) on "Outcome Based Education and Accreditation"	College of Engineering & Technology, IILM Academy of Higher Learning, India.	25-29 May 2020	
16.	Faculty Development Program (FDP) and online training program on "Open Source Tools for Research"	Ramanujan College, University of Delhi with MHRD, Government of India.	8 th to 14 th June 2020	
17.	Faculty Enrichment Program (FEP) on Transcending From Fixed To Growth Mindset In Turbulent Times	Sri Sankara Arts and Science College, Enathur – 631 561.	4 th July 2020	

18.	Faculty Development Program (FDP) on	C. Abdul Hakeem College of	27 th to 31 st July 2020
	"Online Tools for Teaching and	Engineering and Technology,	
	Research"	Hakeem Nagar, Melvisharam-	
		632 509	

18. Projects Completed:

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

19. Any other Details:

ONLINE SEMINARS AND WORKSHOPS

- Participated on "Stay at Home; Save Lives Pledge" organized by Ministry of Electronics and Information Technology, New Delhi was held on 29th March, 2020.
- One day National Conference on "CONTAGIOUS DISEASE MANAGEMENT: PERSPECTIVE TO COVID-19" organized by Biological Science Forum, A Scientific community of India, India was held on 16th April, 2020.
- One day webinar on "How to Get Published In Scientific Journal: From Research to Publication" organized by MHRD Institute Innovation Council Sri Sai Ram Institute of Technology, Chennai- 44, Tamilnadu was held on 27th April, 2020.
- Participated in online quiz "COVID-19 Awareness Quiz" organized by St. Joseph College (Arts and Science), Kovur, Chennai was held on 7th May, 2020.
- Participated in webinar "Assessment and Evaluation in Outcome Based Education" organized by Office of Controller of Examinations, GTN ARTS COLLEGE (Autonomous), Dindigul was held on 11th May, 2020.
- Participated in online quiz "Bioquiz-2020" organized by Soka Ikeda College of Arts and Science for Women, Chennai was held on 28th May, 2020.
- Participated in online quiz "COVID-19 Awareness Quiz" organized by RRC, Adhiparasakthi College of Arts and Science (Autonomous), Kalavai was held on 30th May, 2020.
- Participated in online quiz "Sports Knowledge Quiz 2020" organized by Sir Theagaraya College,
 Chennai was held on 3rd June, 2020.
- Participated in online quiz "Hematological Techniques" organized by Department of Biochemistry, Soka Ikeda College of Arts and Science for Women, Chennai was held on 7th July, 2020.
- Participated in online quiz "NATIONAL LEVEL COVID-19 AWARENESS QUIZ" organized by Department of Microbiology, Ranveer Rananjay PG College Amethi (UP) was held on 8th July, 2020.
- Participated in National webinar "E-Learning for Professional Development Swayam& MOOCs" organized by GTN Arts College (Autonomous), Dindigul was held on 16th July, 2020.

- Participated in online quiz "National Level E Chem Quiz on Cognitive Chemistry" organized by Department of Chemistry, Ramakrishna Mission Vivekananda College, Mylapore, Chennai – 600 004 was held on 26th July, 2020.
- Participated in Inter National webinar "Cell Communication in Disease Course" organized by Government Arts and Science College, Thennangur - 604408 was held on 19th January, 2021.
- Participated in National webinar "Patenting of Biotechnological Inventions in India" organized by the Guru Nanak Centre for Research, Guru Nanak College (Autonomous), Chennai was held on 29th January, 2021.
- Participated in National webinar "NAAC Revised Accreditation Framework: Pathway to Excellence in HEI" organized by IQAC, Sri Sankara Arts and Science College, Enathur was held on 19th February, 2021.

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.
- ➤ 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.
- ➤ 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.
- ➤ 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.
- ➤ 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.
- ➤ Book titled on "Plant Biochemistry" was published by Archers and Elevators Publishing Houses, Bengaluru, Karnataka, India with ISBN no: 978-93-85640-31-5.
- ➤ Book titled on "Biological Databases and Bioinformatics Programming" was published by Mainspringer Publishers, Kanchipuram, Tamilnadu, India with ISBN no: 978-81-928157-4-9.
- ➤ 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.
- ➤ 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 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.

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 10th and 11th 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 17th 19th 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 30th 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 4th Januaray 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 27th – 28th 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 15th and 16th 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 5th – 6th 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 8th 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 20th and 21st 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 2nd 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 Auxilum College, Vellore – 632 006 during 12th – 13th 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 28th 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 3rd 4th 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 19th 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 21st 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 6th 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 18th and 19th 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 9th, 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 24th and 25th January, 2018, Department of Biochemistry, Mohamed Sathak College of Arts and Science (Autonomous), Chennai 600 119, Tamil Nadu, India.
- Paper on "Identification of active principle from the leaf extracts of *Melia Azedarach L., Andrographis Paniculata* and *Azadirachta indica* through bioinformatics tools" was presented in International Conference on New Frontiers in Engineering, Science, Law, Management, Humanities and Social Sciences (INFES 2019) held on 23rd and 24th January, 2019, Eudoxia Research Centre, Gauhati University, Gauhati, 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 6th 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 19th October, 2019, Department of Biochemistry, MMCH and RI of MAHER University, Enathur.

POSTER PRESENTED

- ♣ Poster on "Parkin reduces α-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 11th − 12th February 2011.
- ♣ Poster on "Enzymatic and Non-emzymatic 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 13th 14th 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 6th 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 31st 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 5th 6th 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 10th and 11th 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 23rd 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 02nd and 03rd 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 25th 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 8th and 9th January, 2020.

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

LAB MANUALS

- 1. Lab Manual Part I
- 2. Lab Manual Part II

PARTICIPATION IN ACADEMIC AND ADMINISTRATIVE COMMITTEES AT COLLEGE LEVEL

- 1. College Committee Staff representative
- 2. College Advisory Committee Member
- 3. Controller of Examination office Additional Controller of Examination
- 4. Controller of Examination office Controller of Examination
- 5. Examination Committee Convenor
- 6. Attendance Committee Convenor
- 7. Environment Committee Convenor
- 8. Bioinformatics Committee Co-ordinator
- 9. Research Committee Convenor
- 10. Sports Committee Member
- 11. Stock verification Committee Convenor
- 12. Value added course Convenor
- 13. IQAC Committee Member
- 14. NAAC Steering Committee Member
- 15. Autonomous Steering Committee Member
- 16. Academic Council Member of College
- 17. Academic Council Member of University of Madras

DATABASE SEQUENCE PUBLISHED

- Nucleotide sequence of Cucumis sativus ascorbate peroxidase-like gene, partial sequence was published on 28th 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 28th 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 12th 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 12th 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 5th 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 5th 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 5th 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 5th 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 5th 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 2nd 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 23rd 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 23rd Apr 2013 in Genbank database with Accession No: KC839996.1 GI: 479280231.
- ◆ Protein sequence of *Homo sapiens* osteopontin-C, 61aa was published on 5th April 2011 in Genpept database with Accession No: AEA49027.1 GI:327323283.
- ◆ Protein sequence of *Homo sapiens* osteopontin-D, 47aa was published on 5th 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 5th April 2011 in Genpept database with Accession No: AEA49029.1 GI:327323287.
- ♦ Protein sequence of *Homo sapiens* osteopontin-D, 292aa was published on 5th April 2011 in Genpept database with Accession No: AEA49030.1 GI:327323289.
- ♦ Protein sequence of *Homo sapiens* osteopontin-C, 287aa was published on 5th 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 2nd
 Oct 2012 in Genpept database with Accession No: AFS69159.1 GI:407033517.
- ♦ Protein sequence of *Cucumis sativus* ascorbate peroxidase, 249 aa, was published on 23rd Apr 2013 in Genpept database with Accession No: AGJ72850.1 GI: 479280230.

- ◆ Protein sequence of *Momordica charantia* ascorbate peroxidase, 249 aa, was published on 23rd Apr 2013 in Genpept database with Accession No: AGJ72851.1 GI: 479280232.
- ◆ A mi-RNA sequences were submitted at Gene Expression Omnibus (GEO) of NCBI with GEO id GSE124060 was published on 19th 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 19th 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 19th Dec 2018.

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 13th June, 2020.
- > Served as Reviewer for the Journal "Asian Plant Research Journal" during 29th September, 2020.
- Served as Reviewer for the Journal "Current Journal of Applied Science and Technology" during 29th September, 2020.
- > Served as Reviewer for the Journal "PLOS ONE" during 24th January, 2021.

VIDEO LECTURE REVIEWER

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

WEB SITE MAINTAINED

- 1. Lecture Notes http://www.biochem.tk
- 2. Job for Lifescience students http://joblifescience.blogspot.in/
- 3. Scholarship details http://lifescienceschlorship.blogspot.in/
- 4. Scientific Inventions and News http://biosiva.blogspot.in/

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.