

# CURRICULUM VITAE

1D

**Dr. M. Sundaramoorthy, M.Sc., M.L.I., M.Phil., Ph.D**

Assistant Professor

PG & Research Department of Zoology

Rajah Serfoji Govt. College

Thanjavur - 613 005

TN, South India

Mobile: 91-9488634245/7010144576

Email: [drmsundartnj@gmail.com](mailto:drmsundartnj@gmail.com);

[misundar@rediffmail.com](mailto:misundar@rediffmail.com)



## PROFESSIONAL OBJECTIVE

To achieve the best in higher educational teaching and research especially in the field of drug discovery by continuous learning and making best use of my skills, capabilities and commitments towards the work for the benefits of scholars and society.

## ACADEMIC QUALIFICATIONS

Course	Specialization	Year of passing	Institution	University	% percentage of Marks secured and class
M.Sc	Zoology	1996	A.V.V.M S.P College, Poondi	Bharathidasan	64.25% First Class
B.Sc	Zoology	1994	R.S. Govt. College, Thanjavur	Bharathidasan	60.5% First Class

## RESEARCH QUALIFICATIONS

Degrees	Title	Date and year of award	University
M.Phil.	Effect of blood meal substitution for groundnut oil cake in the fish feed on growth and nutritive composition of <i>Catla catla</i> (Hamilton) and <i>Labeo rohita</i> (Hamilton)	1999	Bharathidasan University, Tiruchirappalli -24
Ph.D.	Studies on isolation, purification and characterization of antibacterial peptides from the heart tissue of goat and chicken against human pathogenic bacteria.	2010	Bharathidasan University, Tiruchirappalli -24
Post Doctoral Fellowship	Research Associate in NASI Platinum Jubilee Fellowship Project entitled "Nanoscience and Glycoscience in Health & Disease using Lectin as Tool"	2013	West Bengal University of Technology, Kolkata

## ADDITIONAL QUALIFICATIONS

- ❖ DMLT (Diploma in Medical Laboratory Technology) in AIMLTA Board - New Delhi at 1989.

## RESEARCH GUIDANCE

Degree	Part Time	Full Time
M.Phil,	Nil	02 (Completed)
Ph.D	Nil	03 (Ongoing)
Others (M. Sc/B.Tech)	Nil	6+36 (Completed)

## RESEARCH AREA

- ❖ Drug discovery: Antimicrobial and anticancer proteins from natural resources with safe mode at pharmaceutical scale.
- ❖ Application of Quantum dot, gold and magnetic nanoparticles in diagnosis and therapy.

## TITLE AND SCOPE OF PH.D WORK

**Title** : Studies on isolation, purification and characterization of antibacterial peptides from the heart tissue of goat and chicken against human pathogenic bacteria.  
**Scope** : Commercial scale preparation of natural antibiotics.  
**Major Area of Research** : Microbiology, Biochemistry , Molecular biology and Bio informatics.  
**Abstract** : Refer Annexure - VI

## TECHNIQUES FAMILIARIZED

**Chromatography** : Column, affinity, gel filtration, thin layer, ion exchange HPLC and RP-HPLC.  
**Electrophorosis** : Agarose gel (protein/DNA & RNA), SDS- PAGE, 2D Gel, Capillary Electrophoresis and Immunoelectrophoresis.  
**Immunotechniques** : Immunodiffusion, ELISA and immunoblottings.  
**Spectrophotometry** : UV-Vis Spectrophotometer, Fluorescence spectrophotometer and Mass spectrophotometer.  
**Others** : PCR , RT-PCR, Gene sequencing and bioinformatics Tools.

## PAPER PUBLICATION

### In Journals of International Repute

1. Sundaramoorthy.M , Sabarimanikandan .M and Arul Doss G (2022). Protein extract of bovine heart displays antibacterial activity on human pathogenic bacteria in *in vitro* study. Uttar Pradesh Journal of Zoology .43 (14), 44-50. ISSN: 0256-971X
2. Sundaramoorthy.M and Sabarimanikandan .M (2019). Evaluation of different protein precipitates of a wild mushroom, Ganoderma lucidum for antibacterial activities against human pathogenic bacteria. Asian Journal of Pharmaceutical and Clinical Research.12, (7), 302-307. ISSN: 0974-2441 Impact Factor - 0.4
3. Sundaramoorthy.M, KannakiS and Saravanan.T.S (2014). Screening for antibacterial proteins from certain selective tissues of Indian major carp, Catla catla against human pathogenic bacteria. Indo American Journal of Pharm Research, 4(5): 2379-2385 ISSN: 2231-6876. SJIF value 6.6; Citation - 02
4. Sundaramoorthy.M, Prabaharan.C, Purusothaman.B and Saravanan.T.S (2014). Antibacterial and wound healing effects of semi purified heart protein from certain

- selective slaughter house animals, Indo American Journal of Pharm Research, 4(1): 1021-1028 ISSN: 2231-6876, SJIF value 6.6; Citation = 08
5. Meenakumari,S., Saravanan,T.S. and Sundaramoorthy,M. (2012). Ambient copper induced histopathological changes in the gill and liver of the major carp, *Labeo rohita* (Hamilton), Indian J Natural Sciences, 2(852-858) ISSN: 0976-0997,
  6. Sundaramoorthy,M and Saravanan,T.S (2012). Effect of Blood Meal substitution for Groundnut oilcake in the Fish feed on growth and nutritive composition of *Catla catla* and *Labeo rohita*, Indian J Natural Sciences, 3(883-890) ISSN: 0976-0997,
  7. Sundaramoorthy,M, Gomathi,S, Kannaki,S and Saravanan,T.S (2011). Antibacterial and haemolytic activities of tissue proteins of the major carp, *Labeo rohita* (Hamilton), Int.J.Sci.Nat, 2(3): 671-676, CI= 0.5; Citation = 3; ISSN: 2229-6441
  8. Sundaramoorthy,M, Saravanan,T.S, Shivashanmugam,P and Chellapandi,P. (2011). Identification and sequencing of a cDNA clone encoding cathelicidin-like antimicrobial peptide from chicken heart tissues, ejBio, 7(2): 26 = 31 IJIN: 1860-3122,
  9. Sundaramoorthy,M and Saravanan,T.S (2011). A Natural Antibacterial Peptide from Goat Heart Tissues Against *S. Typhi* and *P. Aeruginosa*, World J. Zool., 6(3): 227-234 ISSN: 1817-3098,
  10. Sundaramoorthy,M and Saravanan,T.S (2011). Purification of an antibacterial peptide from chicken heart tissues by RP-HPLC against *Pseudomonas aeruginosa*. Int.J.Sci.Nat, 2(2): 310-316, ISSN: 2229-6441
  11. Saravanan,T.S., Rajesh,P and Sundaramoorthy,M (2010). Studies on effects of chronic exposure of endosulfan to *Labeo rohita*, J. Environ.Bio., 31(6):755-758, Impact Factor = 0.68; Citation = 41; ISSN: 0254-8704,
  12. Sundaramoorthy,M and Saravanan,T.S (2010). Antibacterial effects of goat and chicken heart tissues against human pathogenic bacteria, Indian J Bxp. Biol., 48(4):407-414, Impact Factor = 1.295; Citation = 5; IJIN: 0975-1009,
  13. Saravanan,T.S., Annez Mohamed,R., Chandrasekhar,R and Sundaramoorthy,M (2009). Freshwater fishes as indicators of Kaveri River Pollution, J. Environ.Bio., 24(4): 381-389, Impact Factor = 0.68; Citation = 26; IJIN: 0254-8704,

Total citations : 82

h-index : 04

i10-index: 02

## In Proceedings

1. Chitrapriya,K., Asokan,S., and Sundaramoorthy,M (2012) "Diversity of phosphate solubilizing bacteria in vermicompost, Proc National Conference on Biodiversity-green strategies for sustainable development., 74 = 79,
2. Saravanan,T.S., Swaminathan,S., Annez Mohamed,R., and Sundaramoorthy,M (2002). "Chronic effects of endosulfan on blood, liver and ovary of *Anabas testudineus* (Block)During its spawning phase," Proc. XX Symp. Reprod. Biol Comp Endocrinol, 87 = 88,

## ABSTRACT PUBLICATION

1. Sundaramoorthy, M, Sabarimanikandan, M and Arul doss, G " Freezing nature of SDS in refrigerator temperature facilitates purification of bioactive protein fraction from bovine serum: An evaluation, International Conference on Recent Trends in Microbiology (RTM-2023) during 5<sup>th</sup> & 6<sup>th</sup> January 2023,
2. Vivek, N, Dhinesh,S., and Sundaramoorthy,M "Plastic waste Management in Mayiladuthurai town, Tamilnadu, India, Abst, Natl Seminar on Conservation of Natural Resources held during 16<sup>th</sup> & 17<sup>th</sup> March 2012,
3. Sundaramoorthy,M, Deepa,K and Saravanan,T.S. "Antibacterial and Haemolytic properties of cow heart proteins, Abst, Int Seminar on Biochemistry for tomorrow's Medicine held during 22<sup>nd</sup> & 23<sup>rd</sup> Feb 2012,
4. Sundaramoorthy,M, Saravanan,T.S, Shivashanmugam,P and Chellapandi,P "Identification and sequencing of a cDNA clone encoding cathelicidin-like peptide from

- selective slaughter house animals. Indo American Journal of Pharm Research, 4(1): 1021-1028 ISSN: 2231-6876. SJIF value 6.6; Citation - 08
5. Meenakumari.S, Saravanan.T.S and Sundaramoorthy.M (2012). Ambient copper induced histopathological changes in the gill and liver of the major carp, *Labeo rohita* (Hamilton). Indian J Natural Sciences, 2: 852-858 ISSN: 0976-0997.
  6. Sundaramoorthy.M and Saravanan.T.S (2012). Effect of Blood Meal substitution for Groundnut oilcake in the Fish feed on growth and nutritive composition of *Catla catla* and *Labeo rohita*. Indian J Natural Sciences, 3: 883-890 ISSN: 0976-0997.
  7. Sundaramoorthy.M, Gomathi.S, Kannaki.S and Saravanan.T.S (2011). Antibacterial and haemolytic activities of tissue proteins of the major carp, *Labeo rohita* (Hamilton). Int.J.Sci.Nat, 2(3): 671-676. IF - 0.5; Citation - 3; ISSN: 2229-6441
  8. Sundaramoorthy.M, Saravanan.T.S, Shivashanmugam.P and Chellapandi.P (2011). Identification and sequencing of a cDNA clone encoding cathelicidin-like antimicrobial peptide from chicken heart tissues. eJBio., 7(2): 26 - 31 ISSN: 1860-3122.
  9. Sundaramoorthy.M and Saravanan.T.S (2011). A Natural Antibacterial Peptide from Goat Heart Tissues Against *S. Typhi* and *P. Aeruginosa*. World J. Zool., 6(3): 227-234 ISSN: 1817-3098.
  10. Sundaramoorthy.M and Saravanan.T.S (2011). Purification of an antibacterial peptide from chicken heart tissues by RP-HPLC against *Pseudomonas aeruginosa*. Int.J.Sci.Nat, 2(2): 310-316. ISSN: 2229-6441
  11. Saravanan.T.S., Rajesh.P and Sundaramoorthy.M (2010). Studies on effects of chronic exposure of endosulfan to *Labeo rohita*. J. Environ.Bio., 31(6):755-758. Impact Factor - 0.68; Citation - 41; ISSN: 0254-8704.
  12. Sundaramoorthy.M and Saravanan.T.S (2010). Antibacterial effects of goat and chicken heart tissues against human pathogenic bacteria. Indian J Exp Biol., 48(4):407-414. Impact Factor - 1.295; Citation - 5; ISSN: 0975-1009.
  13. Saravanan.T.S., Annez Mohamed.R., Chasnndrasekhar.R and Sundaramoorthy.M (2003). Freshwater fishes as indicators of Kaveri River Pollution. J. Environ.Bio., 24(4): 381-389. Impact Factor - 0.68; Citation - 26; ISSN: 0254-8704.

**Total citations : 82**

**h-index : 04**

**i10-index: 02**

## In Proceedings

1. Chitrapriya.K., Asokan.S., and Sundaramoorthy.M (2012) "Diversity of phosphate solubilizing bacteria in vermicompost. Proc National Conference on Biodiversity-green strategies for sustainable development., 74 - 79.
2. Saravanan.T.S., Swaminathan.S., Annez Mohamed.R., and Sundaramoorthy.M (2002). "Chronic effects of endosulfan on blood, liver and ovary of *Anabas testudineus* (Block)During its spawning phase." Proc XX Symp Reprod Biol Comp Endocrinol.87 - 88.

## ABSTRACT PUBLICATION

1. Sundaramoorthy, M. Sabarimanikandan. M and Arul doss. G " Freezing nature of SDS in refrigerator temperature facilitates purification of bioactive protein fraction from bovine serum: An evaluation. International Conference on Recent Trends in Microbiology (RTM-2023) during 5<sup>th</sup> & 6<sup>th</sup> January 2023.
2. Vivek. N. Dhinesh.S., and Sundaramoorthy.M "Plastic waste Management in Mayiladuthurai town, Tamilnadu, India. Abst. Natl Seminar on Conservation of Natural Resources held during 16<sup>th</sup> & 17<sup>th</sup> March 2012.
3. Sundaramoorthy.M, Deepa.K and Saravanan.T.S "Antibacterial and Haemolytic properties of cow heart proteins. Abst. Int Seminar on Biochemistry for tomorrow's Medicine held during 22<sup>nd</sup> & 23<sup>rd</sup> Feb 2012.
4. Sundaramoorthy.M, Saravanan.T.S, Shivashanmugam.P and Chellapandi.P "Identification and sequencing of a cDNA clone encoding cathelicidin-like peptide from

- chicken heart tissues and its phylogenetic resemblance. Abst. Int Conf Bioinformatics and System Biology held during 19-21st Feb 2010
5. Emili Vinolya. R, Radhika, R, Shiva Adaikmai. MSS., and Sundaramoorthy.M "Study on Heat resistant protein in certain selective goat tissues". Abst. Exploring the Research Platform for Pharmaceutical Product and Process Development held during 15<sup>th</sup> & 16<sup>th</sup> March 2008.
6. Saravanan.T.S., Swaminathan.S., Annez Mohamed.R, and Sundaramoorthy.M "Chronic effects of endosulfan on blood, liver and ovary of Anabas testudineus (Block) During its spawning phase." Abst. XX National Symp Reprod Biol Comp Endocrinol., held during 7-9<sup>th</sup> Jan 2002.

#### GENBANK ACCESSION

A gene sequence encoding an antimicrobial peptide identified from chicken heart tissue was deposited in GenBank of NCBI with accession number FJ755847.

#### DETAILS OF RESEARCH PROJECTS

S. No	Funding agency	Name of the scheme	Project Title	Year	Amount (INR)
1	TANSCHE (Dr. M Sundaramoorthy)	Minor Research Project	Screening for natural antibacterial proteins from wild mushrooms for pharmaceutical applications	2017	1,00,000
2	TANSCHE (G. Punitha bhuvana)	Mini student Project	Evaluation of chemical precipitation of antimicrobial proteins from the wild mushroom, Grifola frondosa	2018	15,000
3	TANSCHE (M. Sabarimanikandan)	Mini student Project	Antimicrobial and haemolytic activities of the wild mushroom, <i>Ganoderma lucidum</i>	2018	15,000
4	TNSCST (M. Thirumeninathan)	Student Project Scheme	Diversity of Wild Mushroom in different areas of Thanjavur District : A Survey	2023	7,500

TEACHING EXPERIENCE

Designation	Institution	Experience (Duration)	Experience (in years)
Asst. Professor in Biochemistry	Pavendar Bharathidasan College of Arts and Science, Trichy	3 <sup>rd</sup> Jan 2000 to 7 <sup>th</sup> Dec 2004	4.01
Asst. Professor in Biotechnology	Pavendar Bharathidasan College of Engineering and Technology, Trichy	17 <sup>th</sup> Dec 2004 to 14 <sup>th</sup> Aug 2005	1.08
Asst. Professor in Biotechnology	ARJ College of Engineering Technology, Mannargudi	4 <sup>th</sup> Sep 2005 to 4 <sup>th</sup> June 2010	3.09
Asst. Professor in Zoology	AVC College (Autonomous), Mayiladuthurai	1 <sup>st</sup> July 2010 to 31 <sup>st</sup> Jan 2013	2.07
Asst. Professor in Zoology	A.A Govt. Arts College, Musiri	27 <sup>th</sup> July 2015 to 1 <sup>st</sup> Aug 2016	1.00
Asst. Professor in Zoology	R.S Govt. Arts College, Thanjavur	1 <sup>st</sup> Aug 2016 to Till date	8.00
<b>TOTAL</b>			<b>23.00</b>

ACADEMIC STAFF COLLEGE ORIENTATION/REFRESHER COURSES ATTENDED

Name of the Course	Academic Staff College, University	Duration	Date
Orientation Programme	UGC-HRDC Bharathidasan University	21 days	03.03.2017 to 30.03.2017
Refresher Course in Life Science (Interdisciplinary)	UGC-HRDC Bharathidasan University	14days	16.07.2019 to 29.07.2019
Refresher Course (Special Summer School – Online - Interdisciplinary)	UGC-HRDC Mizoram University	14days	20.07.2021 to 02.08.2021
Refresher Course (Online –Zoology)	UGC-HRDC Madurai Kamaraj University	14days	02.11.2022 to 15.11.2022

RESOURCE PERSON

- Resource person in establishing a "Soil and Water Quality Analysis Laboratory" funded by NFDB in Fisheries Training and Research Centre, Soorakottai, Thanjavur from Feb.2014 to Dec.2014 (11 Months) on contractual basis.
- Resource person in the "INSERVICE TRAINING PROGRAMME FOR SCIENCE TEACHERS" catalysed and supported by TAMILNADU STATE COUNCIL FOR SCIENCE AND TECHNOLOGY, chennai and jointly organized by Rajah Serfoji Government College (Autonomous), Thanjavur held during 11.02.2019 to 15.02.2019 (5 days).

#### OTHER EXPERIENCES

- Soft skill trainer from Sep.2013 to Feb 2014 in MR Govt. Arts College, Mannargudi, Tamilnadu through Tamil Nadu Skill Development Mission and IL&FS Education and Technology Services Ltd (6 Months)
- Part Time Blood Bank Technician from April 2000 to April 2003 in Sri Kaali Blood Bank, Thanjavur, Tamil Nadu
- Part Time Tutor for DMLT (Diploma in Medical Laboratory Technology) Course from Aug.1995 to Aug.1997. in Chitra Institute of Medical Academy (AIMLTA), Thanjavur, Tamil Nadu (2 Years)
- Part Time Lab Technician from Aug.1989 to March 2000 in Vishnu Nursing Home Orathanadu, Tamil Nadu (10 Years).

#### ADMINISTRATIVE EXPERIENCE

Worked as Academic Co-ordinator in ARJ College of Engineering and Technology from Sep 2007 to June 2010.

#### ACADEMIC RESPONSIBILITIES HELD

- ❖ Acted as External Examiner for several times in Anna University, Chennai.
- ❖ Acting as External Examiner for Bharathidasan University, Trichy.
- ❖ Acted as University Representative for several times in Anna University Examinations.
- ❖ Acting as question paper setter for Universities and Colleges up to PG level.
- ❖ Acted as member of question paper scrutinizing board at university level.

#### EXTRACURRICULAR ACTIVITIES

- Worked as YRC Programme Officer at Pavendar Bharathidasan College of Engg. & Technology, Trichy.
- Worked as Coordinator for STUDENTS' EXNORA at Pavendar Bharathidasan College of Arts & Science, Trichy.
- Member in Entrepreneurship committee of AVC College, Mayiladuthurai.
- Member in Board of studies of AVC College, Mayiladuthurai and currently in Rajah Serfoji College (A), Thanjavur.
- Working as RRC Programme Coordinator in Rajah Serfoji College (A), Thanjavur.

#### TRAINING PROGRAMMES AND WORKSHOPS ATTENDED

1. 3 day Training Programme on "Blood safety and screening procedure for HIV and other transmittable diseases" conducted by STATE AIDS PROJECT CELL SOCIETY, Madras between 23-25 Nov.1994.
2. 1 day Training Programme on "Environmental Issues" conducted by C.P.R Environmental Educational centre,Chennai on 29 th Oct.1997.
3. 2 day Workshop on "Techniques in Experimental and Clinical Immunology" organized by Dept. of Biochemistry, St.Joseph's College (Autonomous), Trichy between 25-26 Feb.2004.
4. 2 day Lecture Programme on "Current concepts in Biological Research" under the auspices of INDIAN ACADEMY OF SCIENCES, Bangalore held at Bharathidasan University,Trichy between 27 – 28 Feb.2004.
5. 10 day Workshop on "Electrophoretic and Immunological Techniques" held at PG Department of Zoology, Jamal Mohamed College, Trichy between 2-12 June 2004.
6. 2 day TNSCST Sponsored state level workshop on Application of Biostatistics with statistical packages for college teachers in Biology held at the PG Department of Zoology, Jamal Mohamed College (Autonomous), Trichy during 13-14 October 2008.
7. 5 day Faculty Improvement Programme on Effective Teaching organized by the Internal Quality Assurance Cell (IQAC) of AVC College (Autonomous), Mannampandal, Mayiladurai during 2-7 September 2010.

8. 1 day UGC Sponsored Workshop on "Molecular Biological Tools and Techniques" jointly organized by the R & D cell, A.V.C College (Autonomous), and Department of Microbiology, Bharthidasan University on 29<sup>th</sup> January 2011.
9. 2 day UGC aided workshop on "Setting Question Bank for part-A Questions" organized by the Internal Quality Assurance Cell (IQAC) & Office of the Controller of the Examinations, AVC College (Autonomous), Mannampandal, Mayiladurai during 26<sup>th</sup> & 27<sup>th</sup> December 2011.
10. 4 day UGC aided workshop on "Lab to Land Techniques" organized by PG & Research Department of Zoology and Wildlife Biology, AVC College (Autonomous), Mannampandal, Mayiladurai during 10<sup>th</sup> to 13<sup>th</sup> January 2012.
11. 1 day UGC assisted workshop on "Women: Towards Empowerment" organized by Equal Opportunity Centre of AVC College (Autonomous), Mannampandal, Mayiladurai held on 23<sup>rd</sup> January 2012.
12. 2 day Lecture series on "WBUT Winter School 2013" organized by West Bengal University of Technology, Kolkata under the World Bank sponsored TEQIP programme of the University during 28<sup>th</sup> February to 1<sup>st</sup> March 2013.
13. 6 day Training Programme on "Pisciculture" conducted by IOB-RSETI, Thanjavur between 18-24 Sep.2013. The Programme was sponsored by SNEHA TRUST IOB/NABARD Chennai.
14. 1 day Training Programme on "Native Chicken Farming and Ethnoveterinary Herbal Medicine" conducted by VUTRC, Thanjavur of Tamilnadu Veterinary And Animal Sciences University, on 19.11.2014.
15. 1 day Training Programme on "Intensive Goat Farming and Ethnoveterinary Herbal Medicine" conducted by VUTRC, Thanjavur of Tamilnadu Veterinary And Animal Sciences University on 23.12.2014.
16. 2 day workshop on "Capacity Building on Bhuvan Map Based Skill Set" sponsored by ISRO Bhuvan-NNRMS and organized by Periyar Maniyammai University, Thanjavur during 14<sup>th</sup> July 2016 to 15<sup>th</sup> July 2016.
17. 2 day Science Academies' Lecture workshop on "Thrust Areas in Biological Sciences" sponsored by IAS, Bangalore, INSA New Delhi & NASI Alahabad and organized by Seethalakshmi Ramaswami College (Autonomous), Tiruchirappalli during 09<sup>th</sup> Feb. 2017 to 10<sup>th</sup> Feb. 2017.
18. 2 days State level workshop on "Animal Cell Culture" organized by PG. Department of Zoology, Dr. Ambedkar Government Arts College, Chennai in collaboration with LIFE TECK Research Centre, Chennai during 15<sup>th</sup> Feb. 2017 to 16<sup>th</sup> Feb. 2017.
19. 2 day Lecture workshop Science Academies' on "Recent Advances in Biological Sciences" sponsored by IAS, Bangalore, INSA New Delhi & NASI Alahabad and organized by Centre for Advanced Studies in Botany, University of Madras, Guindy Campus, Chennai during 8<sup>th</sup> and 9<sup>th</sup> Dec. 2017.
20. 2 day workshop on Advanced Chromatographic Techniques-GCMS & HPLC organized by TANBIO R and D Solution in Periyar Technology Business Incubator, Periyar Maniammai Institute of Science and Technology, Vallam, Thanjavur on 28<sup>th</sup> & 29<sup>th</sup> September 2018.
21. 2 day Capacity Building workshop for teachers of higher education on "Computer Aided Drug Design" jointly organized by major Science departments in Manonmaniam Sundaranar University, Tirunelveli during 3<sup>rd</sup> and 4<sup>th</sup> Feb. 2020.
22. 1 day workshop for college teachers on "Generation & Characterization of Chicken Egg Yolk Antibodies (IgY) from White Leghorn Chickens" organized by SASTRA Deemed-to-be –University, Thanjavur as a part of SSR Policy of DST-SERB on 15<sup>th</sup> March 2022.
23. 3day National workshop on "The Cornerstones of the Research Process: Unravelling the Science of Scientific Writing and Communication"organized by the Office of Dean Research & IQAC Office, Periyar Maniammai Institute of Science and Technology, Vallam, Thanjavur from 28<sup>th</sup> to 30<sup>th</sup> April 2022.
24. 3 day RRC Programme Officers Meet and Peer Educators Training Programme organized by Bharathidasan University, Trichy and TANSACS, Cennai on 17<sup>th</sup> March 2022.

25. 1 day workshop on Nuances on Documentation Process: Research Proposal, NAAC & NIRF organized by Tamilnadu State Council For Higher Education at Thanthai Periyar Government Arts and Science College (A), Tiruchirappalli, on 12<sup>th</sup> August 2022.

### SOFT SKILL/ SKILL DEVELOPMENT TRAININGS

- ❖ Certified as trainer to train soft skills by Southerland Global Services.
- ❖ Certificate for effective participation in EPS (Effective Public Speaking) training hosted by JCI Thanjavur Prince & Rotary Club of Thanjavur Kings on 19<sup>th</sup> Feb 2017.
- ❖ Completed 14 day Certificate Course in "Master Trainer - Soft Skill" conducted by National Institute of Skills Training, New Delhi June 2023.
- ❖ 5 day training on "Naan Muthalvan-A Massive Upskilling Programme in the course of Clinical Trial" conducted by Tamilnadu Government (TSDC) at Bharathidasan University, Trichy from 24<sup>th</sup> to 28<sup>th</sup> July 2023.

### SEMINARS/CONFERENCES PARTICIPATED

#### **International Level:**

1. Participated in a 2 day seminar on **Biotechnology: UK and Indian Perspectives** organized jointly by British Council and Anna University - Chennai, held at Department of Biotechnology, Anna University, Chennai during 17-18 October, 2008.
2. Participated and presented a paper in the "**1<sup>st</sup> International Conference on Bioinformatics and Systems Biology**" held at Annamalai University, Chithambaram during 19 - 21 February 2010.
3. Participated and presented a paper in the "**International Seminar on Biochemistry for tomorrow's Medicine**" held at Justice Basheer Ahmed Sayeed College for Women (autonomous), Chennai during 22 & 23 February 2012.

#### **National Level:**

1. Participated in a 2 day Seminar on "**Conservation of Bioresources**" sponsored by Tamilnadu State Council for Science and Technology, Chennai held at A.A Govt.Arts College, Namakkal between 19-20 Dec.1997.
2. Participated in a 2 day National Seminar on "**Atomic Energy & Environment**" sponsored by BRNS, Dept.of Atomic Energy & Atomic Energy Regulatory Board, Govt. of India held at Jamal Mohamed College, Trichy between 8-9 Feb.2001.
3. Participated in a 3 day XX National Symposium on "**Reproductive Biology and comparative Endocrinology**" in the Dept. Animal Science, Bharathidasan University, Trichy between 7-9 Jan.2002.
4. Participated in a 1 day Seminar on "**Herbs in Treatment**" in the Dept. of Biotechnology, P.R.College, Thanjavur on 24th July 2004.
5. Participated in a 3 day State level Seminar on "**Animal Biotechnology**" held at PG Dept. of Zoology, Jamal Mohamed College, Trichy between 23-25 Aug.2004.
6. Participated and presented a paper in a 2 day National level Seminar on "**Biomedical Wastes : Hazards to public health and its management**" held at Dept.of Biochemistry, S.R.College, Trichy between 3-4 March 2004.
7. Participated in a 2 day UGC-SAP sponsored Conference on "**Diabetus and Cancer**" in the Dept. of Biochemistry and Biotechnology, Annamalai University, Chidambaram between 15 -16 Dec.2007.
8. Participated in a 2 day Regional Symposium on "**Newer Challenges in Laboratory Diagnosis for life Style diseases**" held at Loyola College (Autonomous), Chennai between 17 -18 Dec. 2007.
9. Participated in a 2 day seminar on "**Emerging Trends in Conservations Science**" held at A.V.C. (Autonomous), Mayiladuturai during 22 & 23 March 2010.
10. Participated in a 2 day seminar on "**Future Prospective of Natural Products and Food as Medicine**" held at Rajah Serfoji Govt. College (Autonomous) Thanjavur on 1<sup>st</sup> and 2<sup>nd</sup> April, 2011.

11. Participated in a 2 day conference on "Aquatic biotoxin-2011" held at CAG in Marine Biology, Parangipettai during 14 - 16 September, 2011.
12. Participated in a 2 day conference on "Recent Trends in Materials Science" held at A.V.C. (Autonomous), Mayiladuturai during 8 & 9 March 2012.
13. Participated in a 2 day seminar on "Conservation of Natural Resources" held at A.V.C. (Autonomous), Mayiladuturai during 16 & 17 March 2012.
14. Participated in a 2 day NASI sponsored National Seminar on "Promoting safe water supply for urban and rural community: Problems & Prospects" held at Dept. of Sanitary Engineering, All India Institute of Hygiene and Public Health, Kolkata during 20 & 21st March 2013.
15. Participated in a 1 day National Seminar on "Present and Future Prospects of Biotechnology in Health and Environment" held at Rajah Serfoji Govt. College (Autonomous) Thanjavur on 5<sup>th</sup> October, 2017.
16. Participated in the TNGCTA 19<sup>th</sup> State Conference on the theme Quality Higher Education for all: Challenges and Achievements held on 5<sup>th</sup> & 6<sup>th</sup> January 2019 in Bharathiyar University, Coimbatore.
17. Completed "PST workshop on Certification of Leadership" held on 2<sup>nd</sup> August to 4<sup>th</sup> August 2019 at Bangalore conducted by Lions Clubs International, District 324 A2.

#### EXTENSION ACTIVITIES

- ❖ Delivered 7 radio talklets in All India Radio-Tiruchirappalli on Environmental protection (Soozhal Kappom). They were broadcast from 15<sup>th</sup> May 2010 to 21<sup>st</sup> May 2010 at 7.35 am.
- ❖ Conducted a free blood grouping camp at Government High School, Thirukattuppalai combined with RMT Educational and Charitable Trust, Thanjavur on 29.10.2012.
- ❖ Conducted a Soft Skill Training for school teachers at Little Star Matriculation School Vaduvoor, Mannargudi on 14<sup>th</sup> Nov. 2013
- ❖ Conducted a Soft Skill Training for school students at Govt.High School, Kannanthangudi West, Orathanadu on 30<sup>th</sup> Jan. 2015.
- ❖ Conducted a Soft Skill Training for Final year BE/B.Tech students at Annai College of Engineering & Technology, Kumbakonam from 16 to 20 March 2015.
- ❖ Conducted a Soft Skill Training for Final year B.Sc/B.A/BCA/B.Com students at Thiruvenkadam Nattar Thiruvarul College Thanjavur on 25<sup>th</sup> March 2015.
- ❖ Conducted a soft skill training for the NSS volunteers in the NSS special camp held on 23.03.2019 at Pillaiyarnatham village, Thanjavur.
- ❖ Organised and conducted a cycle rally on 21.02.2020 behalf of LIONS CLUB OF THANJAVUR ARASAN jointly with NSS units of Rajah Serfoji Government College (Autonomous), Thanjavur for creating social awareness to the public for health promotion, pollution control and fuel savings. Certificates were issued to the participants.
- ❖ Conducted a women entrepreneurship program for women members of JCI Thanjavur Prince on January 2021.
- ❖ Certificate of Merit from Vice Chancellor and YRC Zonal Coordinator of Bharathidasan University, Trichy for 16<sup>th</sup> Blood Donation on 30.04.2021.
- ❖ Conducted a Soft Skill Training on Character Building to the students of Xt Xavier Private ITI (Auto), Thanjavur on 7<sup>th</sup> March 2022.
- ❖ Conducting Soft Skill programmes for Final year UG students in Rajah Serfoji College from 2022.

#### MEMBERSHIP IN PROFESSIONAL BODIES

1. Life member in AIMLTA (All India Medical Laboratory Technologists Association), New Delhi.
2. Life member in ISTE (Indian Society of Technical Education ), New Delhi.

PERSONAL DETAILS

Date of Birth : 24. 05.1971  
Sex : Male  
Languages known : Tamil & English  
Nationality : Indian  
Religion : Hindu  
Permenant Address : Middle Elanthavetti,  
Kannanthangudi East & Post  
Orathanadu - 614 625  
Thanjavur, Tamilnadu  
South India.  
Mailing Address : Ist Floor  
APD Maligai  
Medical College  
Thanjavur - 613 009  
TN, South India

DECLARATION

I declare that the above particulars furnished by me are true to the best of my knowledge and belief.

Date: 11.08.2023

Place: Thanjavur

  
Signature

## ANNEXURE - I

### RESEARCH GUIDANCE

M.Phil

Serial No.	Name of the Student/ research scholar	Title of thesis	Degree	Year of completion (or in progress)
1	M. Rani	A study on Evaluation of Protein Recovery from salt out precipitates by SDS treatment with reference to bovine serum ABPs	M.Phil Zoology (Arignar Anna Govt. College, Musiri)	2016
2.	C. Phuviyarasan	Molecular basics of major cancer types and selection of suitable drugs for breast cancer by computational docking with special reference to sphingosine kinase-1	M.Phil Zoology (R.S. Govt. College, Thanjavur)	2020

### POST GRADUATE

Serial No.	Name of the Student/ research scholar	Title of thesis	Degree	Year of completion (or in progress)
1	M. Muneeswaran	Eletrophoretic pattern of Human Serum in HIV and AIDS	M.Sc., Biochemistry (Pavendar Bharathidasan College of Arts & Science, Trichy)	2004
2	S.Gomathi	Sereening of different tissue of <i>Labeo rohita</i> for their antibacterial proteins against human ptheogenic Bacteria	M.Sc. Zoology (AVC College, Mayiladuthurai)	2011
3	S. Kannaki	Screening of different tissue of <i>Catla catla</i> for their antibachterial proteins against human poathogenic bacteria.	M.Sc Zoology (AVC College, Mayiladuthurai)	2011
4	S. Sakthivel	Characterisation of antibacterial proteins partially purified from heart tissues of slaughter house animals	M.Sc Zoology (AVC College, Mayiladuthurai)	2012

5	A. Akila	A study on characterization of chemically separated bioactive proteins of organs of <i>Catla catla</i>	M.Sc Zoology (AVC College, Mayiladuthurai)	2012
6	U. Meera	Antibacterial properties of silver nanoparticles synthesized from chicken liver	M.Sc Zoology (AVC College, Mayiladuthurai)	2013
7	K. Karunakaran	A preliminary study on partial purification of bioactive protein from chicken gizzard	M.Sc Zoology (AVC College, Mayiladuthurai)	2013
8	A. Mohana	A study on antibacterial properties of human serum proteins	M.Sc Zoology (AVC College, Mayiladuthurai)	2013
9	V.Porchelvi	Separation of proteins from salt out precipitate by SDS adopting its freezing difference with reference to bovine serum AMPs-A novel approach	M.Sc Zoology (Arignar Anna Govt. College, Musiri)	2016
10	J. Vignesh	Zooplanktonic Study Of Freshwater Ayyu Pond – Devanancheri, Kumbakonam, Thanjavur.	M.Sc Zoology (R.S. Govt. College, Thanjavur)	2017
11	M. Marikkannu	Antibacterial And Antifungal Properties of Goat Dung	M.Sc Zoology (R.S. Govt. College, Thanjavur)	2017
12	M.Sabarimanikandan	Antibacterial And Haemolytic Activitivies Of Wild Mushroom, <i>Ganoderma Lusidum</i> <b>(TNSCHE Project)</b>	M.Sc Zoology (R.S. Govt. College, Thanjavur)	2018
13	G. Punitha bhuvana	Evalution Of Chemical Precipitation Of Antimicrobial Proteins From The Wild Mushroom, <i>Grifola Frondosa</i> <b>(TNSCHE Project)</b>	M.Sc Zoology (R.S. Govt. College, Thanjavur)	2018
14	M. Ajith Kumar	HPLC Analysis Of Antifungal Proteins Purified From <i>Grifola Frondosa</i> Against <i>Candida Albicans</i>	M.Sc Zoology (R.S. Govt. College, Thanjavur)	2019

15	S. Praveen Kumar	Antifungal Proteins Purified From Wild Mushroom, <i>Grifola Frondosa</i> Against <i>Aspergillus Fumigatus</i>	M.Sc Zoology (R.S. Govt. College, Thanjavur)	2019
16	R. Sarmathi	Antibacterial Activity Of A Wild Mushroom, <i>Tapinella Sp.</i>	M.Sc Zoology (R.S. Govt. College,Thanjavur)	2020
17	K. Indumathi	Antibiotics And The Mechanisms Of Resistance To Antibiotics	M.Sc Zoology (R.S. Govt. College, Thanjavur)	2020
18	G. Vinitha	A Preliminary Study On Antifungal And Haemolytic Activities Of Bovine Serum Protein Extracts	M.Sc Zoology (R.S. Govt. College, Thanjavur)	2021
19	K. Veeraraghavan	Production of Bio Ethanol Using Waste Paper	M.Sc Zoology (R.S. Govt. College, Thanjavur)	2021
20	B. Abinaya	A Random Survey Of Wild Mushroom Diversity In Certain Selective Places Of Tamil Nadu	M.Sc Zoology (R.S. Govt. College, Thanjavur)	2022
22	D. Abirami	Preparation Of Culture Media Using Banana Pulp Supplement	M.Sc Zoology (R.S. Govt. College, Thanjavur)	2022
23	M. Thirumeninathan	A Study On Diversity Of Wild Mushroom In Thanjavur And Gandarvakottai, Tamilnadu <b>(TNSCST Project)</b>	M.Sc Zoology (R.S. Govt. College, Thanjavur)	2023
24	S.Navya	Preparation Of Culture Media Using Soybean Extract As A Supplement	M.Sc Zoology (R.S. Govt. College, Thanjavur)	2023

**UNDER GRADUATE (B. Tech Biotechnology)**

<b>Serial No.</b>	<b>Name of the Student/ research scholar</b>	<b>Title of thesis</b>	<b>Degree</b>	<b>Year of completion (or in progress)</b>
1	Vineeth Vijay, V. Subramaniyan and V.O. Saravananaraj	Role of Obligate Aerobes in Reducing effluent COD	B. Tech Biotechnology	2006
2	S. Prabhu, T. Ragavenran and S. Rathinakumar	Protein structure predication for von Willbrand Disease Domain using Bioinformatics	B. Tech Biotechnology	2006
3	S. Ashokkumar and B. Gnanabrabhu and J. Saravanan	Bioethanol Production form waste potatoes	B. Tech Biotechnology	2006
4	C. Jayapradha	Production of protease from <i>Bacillus subtilis</i> isolated form tannery waste water	B. Tech Biotechnology	2008
5	M. Prabha and D. Sharmila Gayathri	The electrophoretic pattern of Alu I Digested PCR Amplified 16s RNA isolated form <i>Aeromonas hydrophila</i>	B. Tech Biotechnology	2008
6	M. Anitha and R. Karthikeyini	Evaluation of Secondary Metabolites in commonly used Medicinal plants and purification of Alkaloids and lactins.	B. Tech Biotechnology	2008
7	T. Anitha and S. Sangeetha	Treatment of Myocardial infarction by <i>Tridax procumbens</i> leaves	B. Tech Biotechnology	2008
8	C. Bhuvaneshwari	Analysis of genetic variation in mitochondrial DNA of <i>sepia</i> species by Restriction Fragment Length Polymorphism (RELP)	B. Tech Biotechnology	2008
9	B. Purusothaman	Production of Bioethanol using waste paper.	B. Tech Biotechnology	2009
10	R.N Monisha	Invitro propagation of <i>Yucca</i> species	B. Tech Biotechnology	2009
11	E.A. Azharudeen and A. Safiullah	Study on production parameters of chitin and chitosan from shrimp shell	B. Tech Biotechnology	2009
12	M.S.S. Shiva Adaikamai	Isolation, purification and characterization of antibacterial peptides from goat heart tissues against human pathogenic bacteria	B. Tech Biotechnology	2009
13	K. Srinath and S. Senthil	Antibacterial and haemolytic activity of chicken and goat heart proteins	B. Tech Biotechnology	2009
14	A. Farjana Begum and K. Vetriselvi	cDNA cloning of human cathelicidin related gene from chicken heart tissues	B. Tech Biotechnology	2009

15	S.K Priya and M. Priyanka	Isolation, purification and characterization of antibacterial peptides from chicken heart tissues against human pathogenic bacteria	B. Tech Biotechnology	2009
16	K. Deepa	Antibacterial Activity of Cow ( <i>Bos taurus</i> ) heart proteins	B. Tech Biotechnology	2010
17	T. Elangovan, S. Ramkumar and G. Thiruneelakandan	Preparation of a novel Biofilter for absorption of nicotine from cigarettes.	B. Tech Biotechnology	2010
18	R. Ilakkiya	A comparative study on anti-inflammatory activities of certain herbal leaf Extracts	B. Tech Biotechnology	2010