

CURRICULUM VITAE

Dr. S. Sundarraj, M.Phil., Ph.D.,
 Assistant Professor
 PG and Research Department of Zoology
 V.O.Chidambaram College
 Tuticorin – 628008
 Tamil Nadu, INDIA
 Email : shenvsun@gmail.com
 Mobile : +91 98436 59985



ORCID: 0000-0003-4045-5758
Vidwan ID : 183361
Scopus ID : 53865491600
WoS Researcher ID: ABI-6183-2020

Profile URL: <https://vidwan.inflibnet.ac.in/profile/183361>

Scholar Profile : <https://scholar.google.com/citations?user=EsbogWcAAAAJ&hl=en>

EDUCATION:

	Year of Passing	Marks	Class	%	Institution / University
Ph.D. Zoology	December 2012	Best Thesis Award (Gold Medal)			Bharathiar University, Coimbatore
M.Phil. Zoology	April 2009	577/800	First with Distinction	72.10	Ayya Nadar Janaki Ammal College (Autonomous), Sivakasi.
M.Sc. Zoology	April 2008	1885/2600	First with Distinction	74.21	Ayya Nadar Janaki Ammal College (Autonomous), Sivakasi.
B.Sc. Zoology	April 2006	1715/2600	First	62.37	Ayya Nadar Janaki Ammal College (Autonomous), Sivakasi.
Hr.Sec.	March 2003	745/1200	First	62.0	Board of Higher Secondary Examination Tamil Nadu
S.S.L.C.	March 2001	375/500	First with Distinction	75.0	Board of Secondary Education Tamil Nadu
Any other	1. Underwent Training for HPLC instrumentation at ANJAC 2. Underwent Training for AAS instrumentation at ANJAC 3. Underwent Training for Confocal Microscopy at TANUVAS, Chennai 4. Training course for Animal Cell Culture at Karunya University, Coimbatore 5. Certificate Course in DTP 6. UGC – NRCBS Training Program in Bacterial Genomics at MKU, Madurai 7. Underwent Training for Cell Culture at King Institute of Preventive Medicine and Research, Chennai				

SWAYAM – MOOC COURSES:

Organizer	Course Type	Title	Duration	Grade
IGNOU & UGC	UGC Approved Short Term Professional Development Programme Under Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching	Professional Development Programme on ‘Implementation of NEP2020 for University and College Teachers’	9 days (21 st – 29 th September, 2022)	A
NPTEL & IIT Kanpur	AICTE Approved FDP	Functional Genomics	4 weeks (22 nd Aug 2022 to 16 th Sep 2022)	B Credit point - 1

Area of Specialization: Cancer Biology, Environmental Toxicology, Biomaterials

TEACHING CUM RESEARCH EXPERIENCE:

Position	Institution	From	To	Period		
				Y	M	D
Guest Lecture	Bharathiar University	05.07.2013	30.04.2014	-	9	26
CSIR Research Associate	Periyar University	01.10.2014	15.06.2017	2	8	15
Assistant Professor (SF)	Ayya Nadar Janaki Ammal College	16.06.2017	20.04.2018	-	10	5
SERB-NPDF	Sathyabama Institute of Science and Technology	23.04.2018	30.09.2020	2	5	7
Assistant Professor (SF)	Ayya Nadar Janaki Ammal College	01.10.2020	28.12.2022	2	2	28
Assistant Professor (R)	V.O.Chidambaram College	29.12.2022	Till now	-	5	23
Total				6	39	104
Total in Years				9	5	14

FUNDS/FELLOWSHIPS RECEIVED FROM VARIOUS FUNDING AGENCIES:

Funding Agency	Year	Institution	Purpose	Amount (Rs.)
DBT – CTEP	2022	Ayya Nadar Janaki Ammal College, Sivakasi	To be organizing National Conference on Pharmacology and Drug Discovery	72,000
Seed Grant under Ayya Nadar Janaki Ammal Research Fund	2022	Ayya Nadar Janaki Ammal College, Sivakasi	Research Project	30,000
DBT – CTEP	2021	Ayya Nadar Janaki Ammal College, Sivakasi	Organized Popular Lecture Series in Biotechnology	16,000
SERB, India	2018	Sathyabama Institute of Science and Technology, Chennai	National Postdoctoral Fellowship	24,47,280
CSIR, India	2014	Periyar University, Salem	Research Associateship	15,81,000
European Society for Medical Oncology(ESMO), Switzerland	2012	Bharahiar University, Coimbatore	3rd European Lung Cancer Conference (ELCC) Travel Grants, Geneva.	1,45,000
DST-Nanomission, India	2011	Bharahiar University, Coimbatore	Senior Research Fellowship	4,87,000
Total Grant in Rs.				47,78,280

FDP/CONFERENCE/SEMINAR/TRAINING PROGRAMME ORGANIZED:

S. No.	Title	Sponsor	Amount	Date	Venue
1.	Two Day Training Programme on Ornamental Fish Culture	ANJAC Alumni Association	Rs.10000	22 nd & 23 rd September 2022	ANJAC, Sivakasi
2.	Popular Lecture Series in Biotechnology on Genomics and Proteomics	DBT – CTEP, New Delhi	Rs.16000	18 th & 19 th April 2022	ANJAC, Sivakasi
3.	FDP on “Lab to Land Transformation –Focus on Entrepreneurial Skill Development”	UGC PARAMARSH Scheme	Rs.10,000	20 th September to 22 nd September 2021	ANJAC, Sivakasi

WEBINAR ORGANIZED:

S. No.	Title	Date	Venue
1.	International Webinar on “Waste to Wealth”	9 th June 2021	ANJAC, Sivakasi
2.	National Webinar on “Health issues of indoor air pollution from biomass burning emissions” under the observance of World Environment Day	4 th June 2021	ANJAC, Sivakasi
3.	Awareness Programme on “Protect your body and mind from tobacco” under the observance of World No Tobacco Day	31 st May 2021	ANJAC, Sivakasi
4.	National Webinar on “Netaji: Seed of the Indian Revolution” for the celebration of “PARAKRAM DIWAS” (125th Birth Anniversary of Netaji Subhash Chandra Bose)	25 th January 2021	ANJAC, Sivakasi

AWARDS:

- **Research Excellence Award** from Ayya Nadar Janaki Ammal College, Sivakasi, 2023
- **Esteemed and Duty Bound Faculty Award** for consistently maintaining Punctuality and Good Record of Attendance during the year 2022 from Ayya Nadar Janaki Ammal College, Sivakasi.
- **National Postdoctoral Fellowship Award** from SERB, 2018

- **Research Associateship** Award from CSIR, New Delhi, 2014
- Maniben Kirtilal Mehta Award **Gold Medal** for the best Ph.D. thesis in Zoology, Bharathiar University, Coimbatore, 2012
- **Travel Award**, European Society for Medical Oncology for Presentation at 3rd European Lung Cancer Conference in Geneva, Switzerland, 2012
- **Senior Research Fellowship** Award from DST, New Delhi, 2011

CITATION OF RESEARCH ARTICLES:

Citation indices	Since 2010
Citations	747
h-index	12
i10-index	13

DETAILS OF PATENTS UNDERTAKEN

1. **Title:** Development of Polysorbate 80 Tethered Ormosil Nanoparticle Crossing Blood-Brain Barrier for Targeted Drug Delivery in Zebrafish Brain.
Application No.: 201941045696 Dated 11/11/2019; CBR No. 36896.
The Patent Office Journal No.: 48/2019 Dated 29/11/2019

PUBLICATIONS

S.No.	Name of the Authors	Title of the Paper	Name of the Journal	Year	Vol.No./ Issue No.	Page No.	Impact Factor
1.	Sundarraaj S, DNP.Sudarmani P.Samuel, SP.Sevar Kodiyanne	Bioremediation of hexavalent chromium by transformation of <i>Escherichia coli</i> DH5 α with chromate reductase (ChrR) genes of <i>Pseudomonas putida</i> isolated from tannery effluent.	Journal of Applied Microbiology (Oxford University Press).	2022	134	1-11	4.061
2.	Sundarraaj S, M.Sankarashwari, Alphonse CRW, MV.Sujitha, Soundarapaniyan N, Vidhya, Kannan, RR	UV-B protective effect of SiO ₂ doped TiO ₂ thin film regulates pitx3 and sparc expression during embryonic development of zebrafish	<i>Environmental Science: Nano</i> (Royal Society of Chemistry)	2022	9	3809-3820	9.473
3.	Malavika J.P., Shobana C,	Green synthesis of multifunctional	<i>Biomaterials Advances</i>	2022	136	212756	7.328

	Sundarraaj S, Ganeshbabu M, Kumar P, Kalai Selvan R	carbon quantum dots: An approach in cancer theranostics	(Elsevier Publication)				
4.	Sundarraaj S, Sujitha MV, Alphonse CRW, Kalaiarasan R, Kannan RR	Bisphenol-A alters hematopoiesis through EGFR/ERK signaling to induce myeloblastic condition in the zebrafish model	<i>Science of The Total Environment</i> (Elsevier Publication)	2021	6(787)	147530	10.753
5.	Deepika MS, Thangam R, Sundarraaj S, Sheena TS, Sivasubramania n S, Jeganathan K, Thirumurugan R	Co-delivery of Diverse Therapeutic Compounds using PEG-PLGA Nanoparticle Cargo against Drug- Resistant Bacteria: An Improved Anti- biofilm Strategy	<i>Applied Bio Materials</i> (American Chemical Society)	2020	3	385–39 9	3.25
6.	Rayappan K, Murugan C, Sundarraaj S, Portillo Lara R, Kannan S	Peptide-Conjugated Nano-Drug Delivery System to Improve Synergistic Molecular Chemotherapy for Colon Carcinoma	<i>Chemistry Select</i> (American Chemical Society)	2017	2(27)	8524- 8534	2.307
7.	Vimala K, Shanthi K, Sundarraaj S, Kannan S	Synergistic Effect of Chemo- Photothermal for Breast Cancer Therapy Using Folic Acid (FA) modified Zinc Oxide Nanosheet	<i>J Colloid Interface Sci.</i> (Elsevier Publication)	2016	488	92-108	9.965
8.	Thangam R, Sundarraaj S, Vivek R, Suresh V, Sivasubramania n S, Paulpandi M, Vignesh Kathick S, Sri Ragavi A,	Theranostic potentials of multifunctional chitosan–silver– phycoerythrin nanocomposites against triple- negative breast cancer cells	<i>RSC Advances</i> (Royal Society of Chemistry)	2016	5(16)	12209 – 12223	4.036

	Kannan S						
9.	Sundarraaj S, Thangam R, Sujitha MV, Kannan S	Ligand-conjugated mesoporous silica nanorattles based on enzyme targeted prodrug delivery system for effective lung cancer therapy	<i>Toxicology and applied pharmacology</i> (Elsevier Publication)	2014	275(3)	232 – 243	4.46
10.	Vimala K, Sundarraaj S, Paulpandi M, Vengatesan S, Kannan S	Green synthesized doxorubicin-loaded zinc oxide nanoparticles regulates the Bax and Bcl-2 expression in breast and colon carcinoma	<i>Process Biochemistry</i> (Elsevier Publication)	2014	49(1)	160–172	4.885
11.	Vimala K, Sundarraaj S, Sujitha MV, Kannan S	Curtailing the overexpression of E2F3 in breast cancer using <i>siRNA</i> (E2F3) based gene silencing	<i>Archives of Medical Research</i> (Elsevier Publication)	2012	43(6)	415–422	8.323
12.	Thangam R, Gunasekaran P, Kaveri K, Sridevi G, Sundarraaj S, Paulpandi M, Kannan S	A novel disintegrin protein from <i>Naja naja</i> venom induces cytotoxicity and apoptosis in human cancer cell lines <i>in vitro</i>	<i>Process Biochemistry</i> (Elsevier Publication)	2012	47(8)	1243–1249	4.885
13.	Sundarraaj S, Thangam R, Sreevani V, Kaveri K, Gunasekaran P, Achiraman S, Kannan S	Gamma Sitosterol from <i>Acacia nilotica</i> L. induces G2/M cell cycle arrest and apoptosis through c-Myc suppression in MCF-7 and A549 cells	<i>Journal of Ethnopharmacology</i> , (Elsevier Publication)	2012	141(3)	803–809	5.195
14.	Sunarraaj S, Kannan S, Thangam R, Gunasekaran P	Effects of the Inhibition of Cytosolic Phospholipase A ₂ α in Nonsmall cell	<i>Journal of Cancer Research and Clinical Oncology</i> (Springer)	2012	138(5)	827–835	4.322

		lung cancer cells	Publication)				
15.	J.Anburaj, C.Ravinder Singh, S.Sundarraaj , S.Kannan	<i>In vitro</i> regeneration of <i>Cleome viscosa</i> – an important medicinal herb	<i>Journal of Cell and Molecular Biology</i>	2011	9(1)	37-44	-
16.	S.Sundarraaj and S.Kannan	Immunohistochemical expression of cytosolic phospholipase A ₂ α in Nonsmall cell lung cancer	<i>Asian Pacific Journal of Cancer Prevention</i>	2010	11(5)	1367- 1372	2.514
17.	S.Kannan, M.Krishnan, S.Sundarraaj , Meenambigai ,M.Vimalade vi	Assessment of Site-Specific Mutational Effect on Transcription Initiation at <i>Escherichia coli</i> Promoter	<i>American Journal of Biochemistry and Biotechnology</i>	2009	5 (2)	54-58	0.67

CONFERENCE PROCEEDINGS:

1. Sujitha MV, **Sundarraaj S**, Rajeshkannan R. Antibacterial defensive mechanism of circulating blood erythrocyte in zebrafish (*Danio rerio*). Proceedings of National Conference on Future Trends in Marine Biotechnology (FTMBT). 2019; 77-82. ISBN: 81-86660-32-1.
2. **Associate Editor** in Proceedings of International Conference on Advances in Medical and Industrial Biotechnology (ICAMIB) 2019. Organized by Sathyabama Institute of Science and Technology from March 20th – 22nd 2019, Sponsored by CSIR, New Delhi. (ISBN 978-93-83409-50-1).

BOOK CHAPTERS

1. Samuel P, **Sundarraaj S**, Sudarmani DNP. Nanotechnology-Based Stem Cell Therapy: Current Status and Perspectives'. Possibilities and Limitations in Current Translational Stem Cell Research [Working Title], IntechOpen, 16 Feb. 2023. Crossref, doi:10.5772/intechopen.109275.
2. **Sundarraaj, S.**, Rajagopal, G., Sundaramahalingam, B., Sundar, M., Thangam, R. Methods of Protein Detection in Cancer for Diagnosis, Prognosis and Therapy. In:

Tutar, Y., Tutar, L., editors. Protein Detection. London: IntechOpen; 2022. (ISBN: 978-1-83969-352-6), DOI: 10.5772/intechopen.101050

- Gopalan R., **Sundarraaj S.**, Anand K., Ilango S. (2022) Nanotechnology's Promising Role in the Control of Mosquito-Borne Disease. In: Krishnan A., Ravindran B., Balasubramanian B., Swart H.C., Panchu S.J., Prasad R. (eds) Emerging Nanomaterials for Advanced Technologies. Nanotechnology in the Life Sciences. Springer, Cham. pp: 345-368. (ISBN: 978-3-030-80370-4), DOI: 10.1007/978-3-030-80371-1_11.
- Kannan, S., Sujitha, M. V., **Sundarraaj, S.**, Thirumurugan, R. Two Dimensional Gel Electrophoresis in Cancer Proteomics. In: Magdeldin, S. , editor. Gel Electrophoresis - Advanced Techniques. London: IntechOpen; 2012. (ISBN:978-953-51-0457-5), DOI: 10.5772/37470

Submission of Sequence Data to GenBank in NCBI

- M.V.Sujitha and **S.Sundarraaj**, *Pannonibacter phragmitetus* strain anjacbact2021b 16S ribosomal RNA gene, partial sequence submitted on 03-May-2022 (GenBank Accession Numbers: **ON394693**).
- S.Sundarraaj** and M.V.Sujitha, *Staphylococcus epidermidis* strain anjacbact2021a 16S ribosomal RNA gene, partial sequence submitted on 01-May-2022 (GenBank Accession Numbers: **ON387515**).
- S. Sundarraaj**, D. N. Sudarmani, and P. Samuel, *Pseudomonas putida* strain anjacbact2021 16S ribosomal RNA gene, partial sequence submitted on 21-APR-2022. (GenBank Accession number: **ON312942.1**)

GUEST SPEAKER / RESOURCE PERSON

S.No.	Programme	Organizer	Date	Title
1.	National Seminar on Innovative Trends in Microbial Sciences	Department of Microbiology, Kailash Women's College, Salem	4 th November 2022	The Mysterious Magic of Microbes: Unlock the Secrets of Modern Science
2.	Inaugural Function of Cluster Department – Life Sciences Meeting, ANJAC	Coordinator, Cluster Department of Life Sciences	26 th September 2022	Important Discoveries in Past Pandemic
3.	PG Zoology Association Inauguration Meeting	Department of Zoology, V.V.Vannaiperumal College for Women, Virudhunagar	11 th August 2022	Interesting facts about Infectious Disease
4.	UGC – Summer Training Programme	Department of Zoology, Vivekananda College, Madurai	7 th July 2022	Isolation and Separation of bacterial genomic DNA by electrophoresis

5.	Central Valuation of April 2022 offline Examination	Madurai Kamaraj University	05 th August to 08 th August 2022	Examiner of Valuation
6.	valedictory function of Blossom Association (UG)	Department of Biotechnology (UG), ANJAC	2 nd June 2022	Zebrafish as a model animal for human diseases
7.	Online Coaching Programme of Life Sciences aspirants for CSIR-NET examinations	Centre for Technology Enhanced Learning (CTEL), Ayya Nadar Janaki Ammal College (Autonomous), Sivakasi	June 2021 – May 2022	CSIR – NET Coaching Class
8.	valedictory function of Botany Association (PG)	Department of Botany (PG), ANJAC	31 st May 2022	Zebrafish as a model animal for Cancer Model
9.	National Science Day Celebration	Department of Botany, G. Venkataswamy Naidu College (Autonomous), Kovilpatti	28 th February 2022	Natural Products in Drug Discovery: Advances and Opportunities
10.	Aristotle Association Meeting	Department of Zoology, Holy Cross College (Autonomous), Tiruchirappalli	25 th February 2022	Infectious disease: Past, Present and Future
11.	Alumni Guest Lecture	Department of Hindi, ANJAC	27 th December 2021	Tips to Enhance Communicative Hindi
12.	Guest Lecture in a webinar	Department of Biotechnology, Vivekanandha Arts and Science College for Women, Sankari	2 nd June 2021	Mucormycosis: More than meet the eyes
13.	Indo-US Lecture Workshop on Zebrafish in Biology and Medicine (ZBM 2019)	Centre for Nanoscience and Nanotechnology, IRC, Sathyabama Institute of Science and Technology, Chennai	17 th to 18 th October 2019	Toxicity assessment of ORMOSIL nanoparticle in Zebrafish early life stage
14.	Guest Lecture Programme	Department of Zoology, V.V.Vannaiperumal College for Women	31 st January 2018	Nanomaterials and its Application in Cancer Therapy

AFFILIATION

- Placement Officer, V.O.Chidambaram College, Tuticorin
- Assistant Programme Officer, Yellow Ribbon Club, ANJAC
- Joint Coordinator, Anti-Drug Club, ANJAC
- Executive Member, Jal Sakthi Abiyan Cell, ANJAC
- Member of Central Valuation Zoology Board at Madurai Kamaraji University
- Vice-President of Gene Association, PG and Research Department of Zoology, ANJAC
- Member of Management Fellowship committee – 2021
- Member of Environment Audit, ANJAC (2020 – 2022)
- Executive Member of HE Club, ANJAC – 2020
- Member of Academic Institution Innovation HUB – ANJAC (2020 – 2022)
- Member of pre and post-NAAC Committee (2021)
- Member of Timetable Committee in ANJAC (2020 – 2022)
- Member of the European Society for Medical Oncology, Switzerland (2012)
- Assistant Programme officer, RRC in ANJAC (2017 – 2018)
- Sub-Warden in ANJAC hostel (2017 – 2018)
- Peer reviewer of World Journal of Surgical Oncology
- Peer Reviewer of Materials Letters
- Peer Reviewer of Tumor Biology
- Peer Reviewer of Nanomedicine: Nanotechnology, Biology, and Medicine
- Peer Reviewer of Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy
- Peer Reviewer of Toxicology

Webinar Attended: 35

WORKSHOP CUM TRAINING COURSE: 8

Abstracts Presented in Various National and International Conferences: 23

FOREIGN VISIT – Geneva, Switzerland, Japan

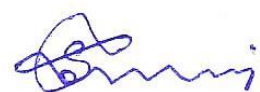
PERSONAL DETAILS

Date of Birth : 23/01/1985
Marital Status : Married
Gender : Male
Nationality : Indian
Permanent Address : 85C First Floor, Briyant Nagar (12th Street)
Thoothukudi – 628008
Tamil Nadu, India

DECLARATION

I hereby declare that the information furnished above is true to the best of my knowledge and belief.

Place: Sivakasi
Date: 02.07.2023


(Dr.S.Sundarraj)