

## CURRICULAM VITAE

DR.SR.IRUTHAYA KALAI SELVAM

### PERSONAL INFORMATION

#### **Assistant Professor**

Post Graduate and Research Centre of  
Zoology St. Anne's Convent,

Jayaraj Annapackiam College for Women  
(Autonomous), Periyakulam, Theni District.



**Date of Birth** : 05/01/1979  
**Date of Appointment** : 18.06.2008  
**Date of Appointment** : 18.06.2014 (Permanent)  
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#### **Academic Qualifications:**

S. No	Degree	Year	Discipline	University / Institution	% of marks
1.	Ph. D	2013	Zoology	Madurai Kamaraj University, Madurai.	Awarded
2.	M.Phil	2008	Zoology	Manonmaniam Sundaranar University, Tirunelveli.	75.54
3.	M. Sc	2007	Zoology	Mother Teresa Women's University, Kodaikanal.	87.69
4.	B. Sc	2000	Zoology	Manonmaniam Sundaranar University, Tirunelveli.	73.63 Gold Medallist
5	Diploma in PC Professional (PCP)	2003	Computer Education	CSC Computer Education	-

## Academic Service

**Total** : 16 Years

Teaching and Research : 16 Years

**Area of Specialization** : Plant Pathology, Microbial Biotechnology

S.No	TITLE	Journal Name & Issue No.	Ref. No. / Application No.	App. Number	Publication Date	Docket No
1	A KIND OF MUSHROOM FORTIFIED CAKE PREPARATION METHOD THEREOF	Official Journal Of The Patent Office 05/2022	TEMP/E1/4097/2022-CHE	202241003519A	04/02/2022	5889
2	A NUTRITIONAL RICH MUSHROOM CHOCOLATE	Official Journal Of The Patent Office 09/2022	TEMP/E-1/11974/2022-CHE	202241010371	04/03/2022	17390
3	A NUTRITIONAL RICH SPIRULINA JELLY	Official Journal Of The Patent Office 19/2022	TEMP/E-1/27134/2022-CHE	202241025287A	13/05/2022	39112
4	A METHOD OF PREPARATION OF AN EDIBLE PRODUCT MUSHROOM MARSHMELLOW	The Patent Office Journal No. 28/2022 Dated		202241039161A	15/07/2022	

		15/07/2022				
5						

### **Publication of the Patent in Official Journal of The Patent Office**

#### **Orientation Programme**

UGC/MKU/sel. Or.85<sup>th</sup>/86<sup>th</sup> OP, Orientation Programme in Madurai Kamaraj University, Madurai-625021. 16/11/2018- 13 /12/ 2018.

#### **Refresher Course**

1. UGC\_HRDC, Bharathiyar University, Coimbatore (Synthetic Biology (ID) 02.02.2021 to 15.02. 2021
2. UGC\_HRDC, Bharathiyar University, Coimbatore (Zoology) 05.09.2022 to 21.09.2022

#### **Significant Professional Contribution**

1. **TNSCST- funded student project** entitled Formulation of Biosynthesized Silver Nanoparticles-based Creams using banana stem waste for Treating Wounds in Wistar Albino Rats” with a grant of Rs.10,000 for the period 2022-2023.
2. **JACFRP funded students/Scholars project** entitled “Green Synthesis of Zinc oxide nanoparticles using *Tagetes erecta* leaf extract against *Meloidogyne incognita*” with a grant of Rs.10,000 for the period 2022-2023.
3. **JACFRP funded students/Scholars project** entitled “Extracellular Biosynthesis of Silver Nanoparticles using Entamopathogenic bacteria against *Meloidogyne Incognita*” with a grant of Rs.10,000 for the period 2021-2022.
4. **TNSCST- funded student project** entitled “Phytochemicals screening and antimicrobial activities of selected medicinal plants of Theni district in Tamilnadu” with a grant of Rs.10,000 for the period 2016-2017.

#### **Hands on Training**

UGC\_NRCBS, XXXI Winter School on “Microbial- Molecular Techniques and their applications” UGC- Networking Resource Centre in Biological Sciences, Madurai Kamaraj University, Madurai-625021. 26/12/2016- 07 /01/ 2017.

### Details of Ph.D Students Guided

S. No.	Name of the Student/ Reg.No	Title of the Project	Degree Awarded/ Thesis Submitted	Registration Year
1	<b>L. Archana Devi</b> <b>PHDZOO17P517</b>	Potassium Silicate Application: A Holistic Approach to Alleviate Abiotic and Biotic Stresses in Okra ( <i>Abelmoschus esculentus</i> ) Cultivation	Ongoing	2017
2	<b>A. Vinothini</b> <b>PHDZOO21F004</b>	Biosynthesis of Silver Nanoparticles using <i>Xenorhbdus</i> Against Insect Pest	Ongoing	2021
3	<b>T.Manimegalai</b> <b>PHDZOO21FO48</b>	Development of Zinc Nano Nematicide using <i>Tagetes Erecta</i>	Ongoing	2021
4	<b>D.Kasthuri Santira Kumari</b> <b>PHDZOO22F002</b>	Formulation of Silver Nano Wound Irrigation Solution for Diabetic Foot Ulcer using <i>Loquat</i> Extract and its Bio Activities in Wister Albino Rats	Ongoing	2022

### Academic and Administration activities

Position		Activity
<b>Vice Principal</b>	2022-Till Date	
<b>Co-ordinator of Anti-Drug Club</b>	2021- Till Date	
<b>IIC</b>	2019-Till Date	
Co Ordinator of academic collaboration of Xavier Bord Higher Education, India	2022- Till Date	
Member in Governing Body	2022-Till Date	
Hostel Director	2021-2022	
Coordinator	2012- 2022	Avian club

Coordinator	2014-2015	JAC Community College
Member	2013-2016	Campus ministry
Member	2011-2013	JACEP
Member	2016- 2020	Fine Arts
Member	2015-2016	OSA
Member	2013- 2018	Entrepreneur cell
Association incharge	2015-2018	Zoology Association
Assistant Director	2010-2019	St. Annes Hostel
Coordinator (Zoology Dept)	2018- 2022	Startup programme of Mushroom Cultivation
Coordinator	2020 – 2022	AIACHE, Xavier Board & Campus Ministry
Member	2020- 2022	Consultancy Cell
Convener, Internship Activity Coordinator	2020-Till Date	Institution Innovation Council (IIC)

**Award/Prize/Certificate etc. won by the investigator:**

S.No.	Name of Award	Awarding Agency	Year
1	Excellence in Research Award	Metharath University, Thailand	2024
2	Senior Innovator Award	G.Venkataswamy Naidu College (Autonomous)Kovilpatti-628502 Sponsored by Tammilnadu State Council For Science And Technology(Govt Of Tamil Nadu), National Council For Scieene And Techology (Govt Of India, New Delhi) Microbiologists Society, India (Maharashtra, India) Tamilnadu Science Forum (Madurai – Branch)Sponsored And Supported Sci-Tech Award (In Connection With National Science Day -2023)	2023
3	Women of Excellence Award	Indiaan World Records (IWR), Chennai (Reg.	2023

	2023	No. 165 TN, No 5663413 GOVT of India)	
4	Research Excellence Award 2023 in Plant pathology/ Zoology	Research Excellence Award 2023 in Plant pathology/ Zoology by Prosper Foundation & Agri Amigos Private Limited – Academic Excellence Awards 2023. Madurai, Tamil Nadu, India	18 <sup>th</sup> February 2023
5	International Human Welfare Award 2023 as an Achiever in the field of Social Works	Unice Council Underprivileged Nikethan Intercommunity Children Education Council. Registration Number R/M/B:4/10/142/22 Hosur, South India unicecouncil@gmail.com	1 7 <sup>th</sup> Jan, 2023
6	V.O.C. Pottum Manithar	V.O.C Ilakiya Vaanam at Ottapidaram on 4.09.2022	2022
7	Best Teacher Award by	Indian World Records, Chennai (Reg. No. 165 TN, 4403292 GOVT of India)	2021
8	Golden Star Award	Women Consumer Protection Association, Madurai. (Reg No 35/99)	2021
9	Maha Vidya Mathangi Award	Indira Sundaram Charitable Trust, Tirupur (Reg No 22/2020)	2020
10	Secured first prize on poster presentation on Bioaction of the peels of <i>Carica papaya</i> l. with silver nanoparticle”in the National Symposium on Advances in Cancer Research (NSACR- 2018)	Karpagam Academy of Higher Education, Tamil Nadu	14 <sup>th</sup> February 2018
11	Secured University Rank at B. Sc Degree Semester Examination held in April 2000 in Branch VI (a)-Zoology by Madurai Kamaraj University, Madurai on 2000	Madurai Kamaraj University, Madurai	2000

### Books and Manual Published

Year	Title	Publication	ISBN
2022	Handbook on Mushroompreneurship,	New Century Book House (p) Ltd	978/81/2344-238-9
2019	Feathered Friends in Theni	Golden Net Computers, 13-16 Prem Towers I Floor, Old Karur Road.  Melachinthamani, Trichy.	978-81-923121-8-7
2017	<i>A Lab Manual based on “National Workshop on Microbial tool and Bioremediation (NWMB-2017)</i>	PG & Research Centre of Zoology.  Periyakulam	ISBN : 978 – 81 – 931923 – 8 – 2

### Course Material Prepared:

Book Title	Year	Beneficiaries
Apiculture	2009 – 2010	

### Book Chapter Published

S.No	Book Title	Year	Chapter Title/ Page	Publisher	ISBN
1.	Modern Trends in Multidisciplinary Research Volume-3	2024	Biofabrication of Silver Nanoparticles from Citrus Peel Extract: Characterization, Larvicidal Activity, and Applications in Aedes aegypti Mosquito Control	Authors Click Publishing	978-81-19368-14-3
2.	Modern Trends in Multidisciplinary Research Volume-3	2024	Real-World Strategies for Sustainable Water Management	Authors Click Publishing	978-81-19368-14-3

3.	Modern Trends in Multidisciplinary Research Volume-3	2024	The Role of Endophytes in Enhancing Plant Growth and Stress Tolerance	Authors Click Publishing	978-81-19368-14-3
4.	Modern Trends in Multidisciplinary Research Volume-3	2024	Role Of Pheromones In Animal Behavior	Authors Click Publishing	978-81-19368-14-3
5.	Modern Trends In Multidisciplinary Research-Vol 1	2024.	“Approachable Ways To Modern Trends In Interdisciplinary Research”	String Production	978-93-6048-157-5
6.	Advancements in Life Science- Exploring Recent Trends”	2024.	Nanomedicine Revolution Enhancing Health Care With Nanotechnology In Wound Healing	Euphoria Publishers	81970537-4-0
7.	Advancements in Life Science- Exploring Recent Trends	2024	The Advancement Of CRISPR Technology in Life Sciences In The Areas Of Precision Medicine And Agriculture	Euphoria Publishers	81970537-4-0
8.	Dynamic Trends In Multi Domain Integration	2024	Adapting Life:Exploring The Impact Of Climate Change On Terrestrial And Aquatic Biodiversity	String Production	978-93-6048-526-9
9.	Dynamic Trends In Multi Domain Integration	2024	The Impact Of Climate Change On Plant Biodiversity	String Production	978-93-6048-526-9
10.	“Today’s Multidisciplinary Research Perspectives	2024	A symphony of life- understanding the biological world	Authors click publishing	978-81-19368-81-5
11.	Today’s Multidisciplinary Research Perspectives	2024	Trajectories in life sciences	Authors click publishing	978-81-19368-81-5
12.	“Today’s Multidisciplinary Research Perspectives	2024	The Omics that play a vital role in human beings	Authors click publishing	978-81-19368-81-5
13.	Today’s Multidisciplinary Research	2024	The role of artificial intelligence in enhancing healthcare	Authors click publishing	978-81-19368-81-5



	Perspectives		outcomes		
14. 1	Innovative Research and Development Volume III	2024	Published a book chapter Green Silver Nanoparticle using Alium cepa Peel Extract and Antimicrobial Activity against Selected Human Pathogens	ESN Publications 3/151-A Muthuralingapuram, Viruthunagar, India	ISBN 978-93-90188-38-3
15. 2	Research Insights of Life Science Students (Volume - 4)	2023	Diabetes Mellitus-An Overview with Symptoms, Diagnosis and Treatment	JPS Scientific Publications, India.	ISBN Number: 978-93-91342-27-2
16. 3	Recent Research in Medicinal plants – S.M. Prasad	2023	Review on Medicinal plants potential against Covid-19., Tamil Nadu, India	Krishna Publication House No 303, Yashkunji Devbaug Anantwadi, Bhavnagar, Gujarat 364002	ISBN 978-93-90627-63-9
17. 4	Biodiversity and Conservation	2022	Diversity of Butterflies in Gandhigram Rural Institute-Deemed University, Gandhigram and Sirumalai hill stations, Tamil Nadu, India	Elite Publishing House New Delhi - 110002 (INDIA)	ISBN: 978-81-955567-0-0
18. 5	Biodiversity and Conservation	2022	Diversity of Avifauna in Gandhigram Rural Institute- Deemed University, Gandhigram and Sirumalai hill stations, Tamil Nadu, India	Elite Publishing House New Delhi - 110002 (INDIA)	ISBN: 978-81-955567-0-0

### Gen Bank Submission

S.No	Accession No	Name of the species	Sequence ID	Released Date and Link
1	OM403107 Vinothini.A, Iruthaya Kalai Selvam. S*	<a href="#">Heterorhabditis indica isolate - large subunit ribosomal RNA gene, partial</a>	1121_404_023_P CR_VINO_N_D2 A_C11.ab1	Jan 31, 2022 <a href="#">Search: OM403107 - NLM (nih.gov)</a>

		<a href="#">sequence</a>		
2	ON929969 Vinothini.A, Iruthaya Kalai Selvam. S*	Photorhabdus luminescens strain CH-23 16S ribosomal RNA gene, partial - Nucleotide	0921_430_007_P CR_Na_Med_27F _C01.ab1	July 12, 2022 <a href="#">Photorhabdus luminescens strain CH-23 16S ribosomal RNA gene, partial - Nucleotide - NCBI (nih.gov)</a>
3.	OR544271 Manimegalai.T ,Iruthaya Kalai Selvam. S*	Meloidogyne incognita isolate Female Eukaryotic Nuclear 28S gene rRNA/ITS	>NEMATODE_A B28_4- 37_P03,Raw Sequence	Sep 18, 2023 <a href="mailto:gb-admin@ncbi.nlm.nih.gov">gb- admin@ncbi.nlm.nih. gov</a>
4.	OR512327 Vinothini.A, Iruthya kalai Selvam.S, Sagaya rani.C, Archana devi.L, Manimegalai.T , Kasthuri santira Kumari.D, Brem kumar.K	Stenotrophomona s maltophilia		09-SEP-2023 <a href="https://www.ncbi.nlm.nih.gov/nucleotide/512347">https://www.ncbi.nlm .nih.gov/nucleotide/OR 512347</a>
5.	OR512327 Vinothini.A, Iruthya kalai Selvam.S, Sagaya rani.C, Manimegalai.T , Kasthuri santira Kumari.D, Archana devi.L, Sampooranam, .W and Brem kumar.K	Stenotrophomona s pavanii		09-SEP-2023 <a href="https://www.ncbi.nlm.nih.gov/nucleotide/512327">https://www.ncbi.nlm .nih.gov/nucleotide/OR 512327</a>

6.	OR512348 Vinothini.A, Iruthya kalai Selvam.S, Sagaya rani.C, Kasthuri santira Kumari.D, Sampooranam, .W Archana devi.L, Brem kumar.K and Manimegalai.T	Enterobacter hormaechei		09-SEP-2023  <a href="https://www.ncbi.nlm.nih.gov/nucleotide/512348">https://www.ncbi.nlm.nih.gov/nucleotide/512348</a>
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## Research Articles Publications

Total 30

1. T. Manimegalai, S. Iruthaya Kalai Selvam, L. Archana Devi, A. Vinothini (2024). Green synthesized zinc oxide nanoparticles from *Tagetes erecta* aqueous root extract against *M. incognita* Cellular. Archives. Vol. 24, No. 1, pp. 149-155, 2024, ISSN 0972-5075 eISSN 0976-1772
2. D.Kasthuri Santira Kumari and **S.Iruthaya Kalai Selvam (2024)** Unveiling the Bio prospecting Potential of Green Synthesised Silver Nano Particles using Loquat Leaf Extract for Antimicrobial and Anticancer Activities, Indian Journal of Natural Sciences, **14(82)**: 68614-68624 ISSN :0976-0997
3. P. Pushpa, **S. Iruthaya Kalai Selvam (2023)** Avifaunal diversity in JAC Campus in Periyakulam, Theni District, Tamilnadu. Indian Journal of Natural Sciences. **14(80)**: 60848- 60852.) pISSN: 0976-0997
4. D. Kasthuri Santira Kumari, **S. Iruthaya Kalai Selvam (2023)** Phyto constituents screening of loquat leaf extract using different solvents and antioxidant potential assessment (2023) An International Journal of Agricultural and Biological Research ISSN- 0970-1907. AGBIR. 39 (4):578-580
5. L.Archana Devi, **S. Iruthaya Kalai Selvam**, T.Manimegalai, A.Vinothini, and D.kasthuri Santira kumari (2023) Effect of Microbe-based Soil drenched liquid bio fertilizer (Ecoroot) on Growth and yield of eggplant (*Solanum melongena* L.).Journal of Science and Humanities and Management (JACJOSHAM). ISSN: 2347-9868, Vol. 10, No.2, June 2023
6. T. Manimegalai, S. Iruthaya Kalai Selvam (2023) Qualitative Phytochemical Analysis in *Tagetes erecta* (African Marigold) Extracted in Different Solvents. An International Journal of Agricultural and Biological Research ISSN-0970-1907. AGBIR Vol.39 No3 March 2023.
7. C. Sagaya Rani, S. Priyanka Devi, **S. Iruthaya Kalai Selvam**, A. Anitha Mary, A. Vinothini (2023) Prevalence of COVID-19 at Theni medical college and hospital in Kanavilakku, Theni district, Tamil Nadu, India An International

Journal of Agricultural and Biological Research ISSN- 0970-1907. AGBIR Vol.39 No.4 Jul 2023

8. Karuppiyah Nagaraj, Pilavadi Thangamuniyandi , Subramaniam Kamalesu , Snehal Lokhandwala , NikhilM. Parekh , Swapna RekhaPanda , Subramanian Sakthinathan , Te-Wei Chiu , Karuppiyah Chelladurai , Ammasai Karthikeyan, **Iruthaya KalaiSelvam** (2023) Metallo-Surfactant assisted silver nanoparticles: A new approach for the colorimetric detection of amino acids, *Spectrochimica Acta Part A:Molecular and Biomolecular Spectroscopy* 296 (2023) 122693 1386-1425/© 2023 Elsevier [file:///C:/Users/ANNES/Downloads/1-s2.0-S1386142523003785-main%20\(1\).pdf](file:///C:/Users/ANNES/Downloads/1-s2.0-S1386142523003785-main%20(1).pdf)
9. Karuppiyah Nagaraj, Jitendrabhai Naman, Manojkumar Dixitkumar, Jigeshkumar Priyanshi, Pilavad Thangamuniyandi, Subramaniam Kamalesu, Snehal Lokhandwala, Nikhil Parekh, Swapna RekhaPanda, Subramanian Sakthinathan , TeWei Chiu, Chelladurai Karuppiyah, Ammasai Karthikeyan, **Iruthaya Kalai Selvam** (2023 ) Green synthesis of Ag@ZnO nanocomposites using Cassia Alata leaf extract and surfactant complex for photodegradation of Rhodamin6G , *Inorganic Chemistry Communications*. [Volume 151](https://doi.org/10.1016/j.inoche.2023.110635), May 2023, 110635 Elsevier <https://doi.org/10.1016/j.inoche.2023.110635>
10. L. Archana Devi , **S. Iruthaya Kalai Selvam**, T. Nirmala (2023) Foliar application of potassium silicate and glycine betaine: Alleviating water deficit on soil properties, vegetative growth and yield attributes of *Abelmoschus esculentus* L (Okra) and *Solanum melongena* (Eggplant) *An International Journal on Agricultural and Biological Research (AGBIR)* Vol.39 No.2. <https://www.abrinternationaljournal.org/archive/agbir-volume-39-issue-2-year-2023.html>
11. A. Vinothini, **S. Iruthaya Kalai Selvam** (2022) Extracellular biosynthesis of silver nanoparticles using entamopathogenic bacteria against *Meloidogyne incognita* *An International Journal of Agricultural and biological Research*, AGBIR Vol.38 No.6 November 2022
12. L. Archana Devi 1 and **Dr. Sr. S. Iruthaya Kalai Selvam** (2022) Efficacy of Seed Priming Using Potassium Silicate on Okra's (*Abelmoschus Esculentus* Var. *Raadhika*) Germination Performance *Biochemical and Cellular. Archives*. Vol. 22, No. 2, pp. 4321-4325, 2022, ISSN 0972-5075 eISSN 0976-1772
13. Anitha Mary A, Delphine Rose M. **Iruthaya Kalai Selvam.S**, Kasthuri Santira Kumari D & Kayalvizhi R. (2022) Green synthesis of silver nanoparticles using flower extract of *Calotropis gigantea* and evaluation of its antimicrobial activity <https://doi.org/10.37896/sr9.4/003> *Strad Research*, ISSN: 0039-2049, VOLUME 9, ISSUE 4, pp 16-21,
14. Vinothini.A , **Iruthaya Kalai Selvam. S**, Sagaya Rani. C and Prabhu. S **2022**. Challenges on In-vivo Culture and Recovery of Entomopathogenic Nematodes from *Galleria mellonella* *Indian Journal of Natural Sciences*, ISSN: 0976 – 0997 Vol.12 / Issue 69
15. **Dr. S. Iruthaya Kalai Selvam**, Asha Banu 2021 Social Factors Influencing Entrepreneurship A Study On With Special Reference To Theni District *International Journal of Scientific Research in Computer sciences, Engineering and information Technology* ISSN 2456-3307 7(4)314-322
16. T. Nirmala, Arockiam Thaddeus, Anita Kannagi, V. Santhi, S. Catherine, P. Alexander, C Sagaya Rani, M.R. Delphine Rose, V. Jemima Florence Borgia, **S. Iruthaya Kalai Selvam**, L. Merlin Dayana, A. Irudaya Lourdu Gladis,

- S.Devashanthi, P. Pushpa And R. Medona Mary 2021 Establishment of water Quality Index in Different Waters of Theni and Dindigul District EM International ISSN: 0257-8050 PollRes.40(2)485-492
17. **S. Iruthaya Kalai Selvam**, S.Marian Bara Joicesky, A. Amolorpava Dashli,A.Vinothini,K.Premkumar (2021) Assessment Of Anti Bacterial, Anti Inflammation and Wound Healing Activity In Wistar Albino Rats Using Green Silver Nanoparticles Synthesized From *Tagetes Erecta* Leaves (2021) Journal Of Applied and Natural Sciences ISSN:0974-9411 (Print) 2231-5209 (Online) 13(1):343-351
  18. M Nisha Nair, R. Kanthasamy, R. Mahesh, **S. Iruthaya Kalai Selvam** and S. Ramalakshmi (2019) Identification of Antibacterial Compound from *Bacillus horikoshii*, Isolated from Rhizosphere Region of Alfalfa Plant. Journal of Applied Sciences 19(2): 140-147. ISSN 1812-5654.
  19. Nisha M Nair, R. Kanthasamy, R. Mahesh, **S. Iruthaya Kalai Selvam** and S.Ramalakshmi. 2019. Production and characterization of antimicrobials from isolate *Pantoea agglomerans* of *Medicago sativa* plant rhizosphere soil. *Journal of Applied and Natural Science* 11(2): 267- 272 ISSN : 0974-9411 (Print), 2231-5209 (Online). journals.ansfoundation.org
  20. Jeya prabha and **S. Iruthaya Kalaiselvam**. (2017). Impact of Biopesticide on pod borers *Helicoverpa armingera* and *Adsurat kisoni* of *Lablab purpurea* International journal for Innovative Research in Multidisciplinary Field. 3 (3): (ISSN: 2455-0620).
  21. **S. Iruthaya Kalai Selvam**, R. Aruna Devaraj, C. Sagaya Rani. (2016). Antagonistic effect of *Tagetes erecta* on soil microbes and nematodes of banana. Journal on Research in Ecology. **4 (2)**: 400-409. (ISSN: 2319-1538).
  22. S.Muthulakshmi, **S. Iruthaya Kalai Selvam**, C. Sagaya Rani (2016) Phytochemical and Antimicrobial activities of *Solanum nigrum* and *Solanum trilobatum* . Journal on Research in Ecology. **4 (1)**: 158-171. (ISSN: 2319-1538).
  23. **S. Iruthaya Kalai Selvam** and S.Catherine P. Alexander (2016) Research Quality in Indian Higer Education System- Current Scenario. JAC Journal of Science , Humanities and Management **4(1)**: 66-76. (ISSN: 2247-9868).
  24. **S. Iruthaya Kalai Selvam**, R. Aruna Devaraj, C. Sagaya Rani. (2015). Allelopathic Effect of *Tagetes erecta* on Soil Microbes and Nematodes of Papaya. *Indo American Journal of Pharmaceutical Research*. 5(10): 3210-3219. (ISSN: 2231-6876).
  25. Reenal M and **Iruthaya Kalai Selvam S**. (2015). Green Synthesis and Antibacterial activity of Silver Nanoparticles using *Oryza sativa* Husk Extract. International Research Journal of Environment Sciences 4(5): 68-72. (ISSN: 2319-1414).
  26. **Iruthaya Kalai Selvam S**, Nirmala T and Krishnakumar J. (2015). Effect of probioticbacteria (*Lactobacillus rhamnosus*) on the survival, growth and immune responses of the fresh water prawn *Macrobrachium idea*. International Journal of Pharmacy and Biomedical Research. 2(3): 1-7. (ISSN: 2394-3726).
  27. Priya Joy, D. Patric Raja and **S. Iruthaya Kalai Selvam**. 2014. Genetic analysis of somoclonal variation among *Jasminum auriculatum* and its callus. International Journal of Biological Technology. 5(1): 19-24. (ISSN: 0976-4313).
  28. Priya Joy, D. Patric Raja and **S. Iruthaya Kalai Selvam**. 2013. Callus induction in the leaf segments of *Jasminum angustifolium*. Botanical Report. 2(1): 3-5. (ISSN: 2319-8230). (ISSN: 2250-2033).
  29. Priya Joy, D. Patric Raja and **S. Iruthaya Kalai Selvam**. 2012. Effect of

different plant hormones on the callus induction of *Jasminum sambac*. International Journal of Applied Bioresearch. 9: 8-11. (ISSN: 2250-2033).

30. **S. Iruthaya Kalaiselvam** and Aruna Devaraj. (2011). Effect of root exudates of *Tagetes sp.* on egg hatching behavior of *Meloidogyne incognita*. International research journal of pharmacy. 2(10): 93-96. (ISSN: 2230-8407).

## Proceedings

1. Green Synthesis and Characterization of ZnO Nanoparticles from *Tagetes erecta* for *Meloidogyne incognita* Management Published in the proceedings National Conference on Frontiers in Life Science Research NCFLSR – 24 23 January 2024 PG & Research Department of Zoology The American College, Madurai Tamilnadu, India ISBN: 978-93-80-36847-4
2. Arachnids in the Academia: Exploring Spider Populations on J.A. College Campus from during the late fall and early winter months Published in the proceedings National Conference on Frontiers in Life Science Research NCFLSR – 24 23 January 2024 PG & Research Department of Zoology The American College, Madurai Tamilnadu, India ISBN: 978-93-80-36847-4
3. Study of Butterfly Biodiversity from November to January at J.A. College Campus, Theni District, Tamil Nadu, India Published in the proceedings National Conference on Frontiers in Life Science Research NCFLSR – 24 23 January 2024 PG & Research Department of Zoology The American College, Madurai Tamilnadu, India ISBN: 978-93-80-36847-4
4. Winged Guardians: Avian Diversity to Assess Ecosystem Health on Periyakulam Pond, Theni District, Tamil Nadu Published in the proceedings National Conference on Frontiers in Life Science Research NCFLSR – 24 23 January 2024 PG & Research Department of Zoology The American College, Madurai Tamilnadu, India ISBN: 978-93-80-36847-4
5. Screening of phytochemicals in okra (*Abelmoschus esculentus*) under different abiotic stress Published in the proceedings of the **International Conference** on Life Science Research and Intellectual Property Rights (LRIPR 22) organized by IQAC and Department of Zoology, St. Joseph,s College for Women, Alappuzha in collaboration with Inter University Center for IPR Studies, CUSAT< Kochi, Kerala and Jayaraj Annapackiam College for Women (Autonomous) Periyakulam, Theni, Tamil Nadu on 20<sup>th</sup> September 2022. ISBN No. 978-93-5768-350-0
6. Antifungal Activity of Green Synthesized Zinc Oxide Nanoparticle Using *Tagetes Erecta* Leaves Extract Published in the proceedings of the International Conference on Life Science Research and Intellectual Property Rights (LRIPR 22) 2022 organized by IQAC and Department of Zoology, St. ISBN No. 978-93-5768-350-0
7. Cytotoxicity Analysis and Anticancer Activity of green synthesized silver nanoparticles using loquat leaf extract in MCF 7 Cell line. Published in the proceedings of the **International Conference** on Life Science Research and Intellectual Property Rights (LRIPR 22) organized by IQAC and Department of Zoology, St. Joseph,s College for Women, Alappuzha in collaboration with Inter University Center for IPR Studies, CUSAT< Kochi, Kerala and Jayaraj Annapackiam College for Women (Autonomous) Periyakulam, Theni, Tamil

- Nadu on 20<sup>th</sup> September **2022**. ISBN No. 978-93-5768-350-0
8. Bioprospecting potential of green synthesis silver nanoparticles using **Eriovoprya japonica** leaf extract in cell line Published in the proceedings of the **Virtual National** Conference On unravelling application of alternative to animal models in biological research (AMBR 22) on 26<sup>th</sup> August **2022** organized by Bishop Heber College, Autonomous) Trichy ISBN 978-93-5680-437-1
  9. Effect Of Seed Priming Using Potassium Silicate on Germination Performance Of Okra (*Abelmoschus Esculentus* Var. *Raadhika*) Published in the proceedings of the **Virtual International** Conference On Recent Progresses In Biological Sciences-2021 on 4<sup>th</sup> & 5<sup>th</sup> March, **2022** Organized by Department of Zoology Ayya Nadar Janaki Ammal College (Autonomous), Sivakasi Sponsored by Department Of Biotechnology (Dbt), New Delhi & The Management Ayya Nadar Janaki Ammal College (pp -166)
  10. Impact of seed priming using potassium silicate on agronomic characters of okra (*Abelmoschus esculentus* var. *Raadhika*) Published in the proceedings of the **Virtual International** Conference on "Recent Innovations in Biological Research" 17<sup>th</sup>& 18<sup>th</sup> March, **2022** at PSGR Krishnammal College for Women, Coimbatore,641004, Tamil Nadu organized by Department of Botany (pp -32)
  11. Isolation of symbiotic Bacteria from Entamopathogenic Nematodes Published in the proceedings of **Virtual International** Virtual Conference on Recent Innovations in Biological Research (ICRIBR-2022) on 17<sup>th</sup> and 18<sup>th</sup> March **2022** at PSGR Krishnammal College for Women , Coimbatore,641004, Tamil Nadu organized by Department of Botany(pp -63)
  12. The study on green synthesized silver nano particles using loquat leaf extract, it's characterization and it's antimicrobial activities Published in the proceedings of **Virtual International** Conference on "Recent Innovations in Biological Research" 17<sup>th</sup>& 18<sup>th</sup> March, **2022** at PSGR Krishnammal College for Women , Coimbatore,641004, Tamil Nadu organized by Department of Botany (pp -35)
  13. Influence of Potassium Silicate on the Morphological Growth Characters of *Abelmoschus esculentus* L.( Bhendi) by Soil drenching Published in the proceedings of **Virtual International** Virtual Conference On Biological Innovations & Computational Exploration For Pandemic Challenges (BICPAC'22) on 24<sup>th</sup> & 25<sup>th</sup> February **2022** organized by Department Of Biotechnology & Bioinformatics at Bishop Heber College (Autonomous) TIRUCHIRAPPALLI – 620 017(PP 73) ISBN 978-93-5680-437-1
  14. Entamopathogenic Nematodes as a Biological Agent against Insects Published in the proceedings of 7<sup>th</sup> Go Green Summit **2021**, on 14<sup>th</sup> – 15<sup>th</sup> October 2021 organised by ISERS (**International** Society of Environmental Relationship and Sustainability at Manila, Philippines. ISBN: 978-81-951121-4-2 Page | 33.
  15. **S. Gayathri and S. Iruthaya Kalai Selvam (2016-2017)** “Phytochemicals screening and antimicrobial activities of selected medicinal plants of Theni district in Tamilnadu” Published in the proceedings of **Students Projects Scheme Seminar Cum Exhibition**, supported by Tamilnadu State Council for Science & Technology (TNSCST) Government of TamilNadu Chennai.
  16. Subbulakshmi S., **S. Iruthaya Kalai Selvam**, Joji Reddy L., Joys Rathinam A. (2016). Green synthesis and antimicrobial activity of silver nano particles using Senna auriculata flower extract Published in the proceedings of the Extended Summaries of Contributed Papers International Conference on “Emerging Trends in Synthesis of Nano Particles in Agri Biotechnology-Research and Commercialization”. (5.1.3). 14-20. Loyola Academy Degree & PG College, Old

Alwal, Secunderabad - 500 010, Telangana state, India. ISBN: 978-93-7495-634-2. February 25-27.

17. Jeyabharathi S., **Iruthaya Kalai Selvam, S.**, Vennila, B., Nirmala, T. (2016). Green synthesis and antimicrobial activity of silver nano particles using *Moringa oleifera* flower extract Published in the proceedings of the Extended Summaries of Contributed Papers International Conference on “Emerging Trends in Synthesis of Nano Particles in Agri Biotechnology - Research and Commercialization”. (5.1.4). 21-26. Loyola Academy Degree & PG College, Old Alwal, Secunderabad - 500 010, Telangana state, India. ISBN: 978-93- 7495-634-2. February 25-27.
18. Industrial waste management” Published in the proceedings of the **National** conference on “Technology for wealth from waste” (Recycling, recovery and Remanufacturing) organized by Loyola Institute of Frontiers Energy(LIFE) &Loyola ICAM College of Engineering and Technology(LICET) at Chennai on 8<sup>th</sup> &9<sup>th</sup> February 2013.
19. “Effect of Probiotic bacteria (Commercial *Lactobacillus*) on the survival and growth performance of *Cirrhinus mrigala*” Published in the proceedings of the **National** seminar on “New Frontiers in Biology” organised by J.A. College for Women (A) at Periyakulam on 18<sup>th</sup> & 19<sup>th</sup> December 2012.
20. “Allelopathy as a Participatory Technology for Resource Poor Banana Farmers” Published in the proceedings of the International Conference on Science, Society and Sustainability “Many Species, One Planet” organised by Lady Doak College, Madurai from 11<sup>th</sup> to 13<sup>th</sup> January 2012

### Paper Presented

1. *Photorhabdus* mediated synthesis of silver nanoparticles against *Meloidogyne incognita*. International Conference on innovative Research and Development (ICIRD-2024). May 28<sup>th</sup> 30<sup>th</sup> 2024.
2. “Unlocking the Therapeutic Potential of Loquat Leaves:Exploring the Phytochemical Spectrum,Anti oxidant Marvels and Antimicrobial Wonders through Varied Solvent Extraction Method”in the Two days International Conference on “Micro algae:Biodiversity and Bioprospecting” held on 20<sup>th</sup> and 21<sup>st</sup> February 2024 organised by the Department of Botany,St.Mary’s College(Autonomous),Thoothukudi under the Star College Scheme sponsored by the DBT,Govt.ofIndia,New Delhi.
3. Presented a paper in the national level online conference on Environmental Pollution and Land Restoration”on 10<sup>th</sup> June 2024,organized by Council for Science and Development and BPT Publications and Won the FIRST PRIZE.
4. Green Synthesis and Characterization of ZnO Nanoparticles from *Tagetes erecta* for *Meloidogyne incognita* Management Published in the proceedings National Conference on Frontiers in Life Science Research NCFLSR – 24 23 January 2024 organised by PG & Research Department of Zoology The American College, Madurai Tamilnadu, India ISBN: 978-93-80-36847-4
5. Arachnids in the Academia: Exploring Spider Populations on J.A. College Campus from during the late fall and early winter months Published in the proceedings National Conference on Frontiers in Life Science Research NCFLSR – 24 23 January 2024



organised by PG & Research Department of Zoology The American College, Madurai Tamilnadu, India ISBN: 978-93-80-36847-4

6. Study of Butterfly Biodiversity from November to January at J.A. College Campus, Theni District, Tamil Nadu, India Published in the proceedings National Conference on Frontiers in Life Science Research NCFLSR – 24 23 January 2024 organised by PG & Research Department of Zoology The American College, Madurai Tamilnadu, India ISBN: 978-93-80-36847-4

7. Winged Guardians: Avian Diversity to Assess Ecosystem Health on Periyakulam Pond, Theni District, Tamil Nadu Published in the proceedings National Conference on Frontiers in Life Science Research NCFLSR – 24 23 January 2024 organised by PG & Research Department of Zoology The American College, Madurai Tamilnadu, India ISBN: 978-93-80-36847-4

8. Green Synthesis and Characterization of ZnO Nanoparticles from *Tagetes erecta* for *Meloidogyne incognita* Management in the National conference on frontiers in Lifescience Research (NCFLSR 24) organized by PG and Research Center of Zoology, Affiliated to Madurai Kamaraj university, Madurai, Tamilnadu on January 23, **2024**.

9. Isolation and Morphological Identification of *Meloidogyne incognita* from *Solanum lycopersicum* roots in the Two days national conference on Biotechnology For Sustainable Agriculture And Healthcare (NCBSAH – 2023) organized by the School of Biotechnology, Madurai kamaraj University, Madurai, Tamilnadu on 23<sup>rd</sup> and 24<sup>th</sup> March **2023**.

10. Screening of phytochemicals in okra (*Abelmoschus esculentus*) under different abiotic stress in the International Conference on Life Science Research and Intellectual Property Rights (LRIPR'22 ) organized by IQAC and Department of Zoology, St. Joseph,s College for Women, Alappuzha in collaboration with Inter University Center for IPR Studies, CUSAT< Kochi, Kerala and Jayaraj Annapackiam College for Women (Autonomous) Periyakulam, Theni, Tamilnadu on 20<sup>th</sup> September **2022**.

11. Antifungal activity of green synthesized zinc Oxide Nanoparticle using *Tagetes erecta* leaves against *Aspergillus flavus* in the International Conference on Life Science Research and Intellectual Property Rights (LRIPR'22) organized by IQAC and Department of Zoology, St. Joseph,s College for Women, Alappuzha in collaboration with Inter-University Center for IPR Studies, CUSAT< Kochi, Kerala and Jayaraj Annapackiam College for Women (Autonomous) Periyakulam, Theni, Tamilnadu on 20<sup>th</sup> September **2022**

12. Green synthesized zinc Oxide Nanoparticle using *Tagetes erecta* flower extract efficiency on *Culex quinquefasciatus* Larva at the International Conference on Research Trends Strategies, and Technical Advancement in Biological and Biomedical Sciences for Sustainability (RTSTA'22) organized by Research Department of Zoology, Seethalakshmi Ramaswami College, Thiruchirappalli. On 14<sup>th</sup> and 15<sup>th</sup> December **2022**.

13. Impact of seed priming using potassium silicate on agronomic characters of okra (*Abelmoschus esculentus* var. *Raadhika*) presented in the **Virtual International** Conference on "Recent Innovations in Biological Research" 17th& 18th March, **2022** at PSGR Krishnammal College for Women , Coimbatore,641004, Tamil Nadu organized by Department of Botany (pp -32)

14. Isolation of symbiotic Bacteria from Entamopathogenic Nematodes presented in the **Virtual International** Virtual Conference on Recent Innovations in Biological Research (ICRIBR-2022) on 17<sup>th</sup> and 18<sup>th</sup> March 2022 at PSGR Krishnammal

- College for Women , Coimbatore,641004, Tamil Nadu organized by Department of Botany(pp -63)
15. The study on green synthesized silver nano particles using loquat leaf extract, it's characterization and it's antimicrobial activities presented in the **Virtual International** Conference on "Recent Innovations in Biological Research" 17th& 18th **March, 2022** at PSGR Krishnammal College for Women , Coimbatore,641004, Tamil Nadu organized by Department of Botany (pp -35)
  16. Effect Of Seed Priming Using Potassium Silicate on Germination Performance Of Okra (*Abelmoschus Esculentus* Var. *Raadhika*) presented in the **Virtual International** Conference On Recent Progresses In Biological Sciences-2021 on 4<sup>th</sup> & 5<sup>th</sup> **March, 2022** Organized by Department of Zoology Ayya Nadar Janaki Ammal College (Autonomous), Sivakasi Sponsored by Department Of Biotechnology (Dbt), New Delhi & The Management Ayya Nadar Janaki Ammal College (pp -166)
  17. Influence of Potassium Silicate on the Morphological Growth Characters of *Abelmoschus esculentus* L.( Bhenidi) by Soil drenching presented in the **Virtual International** Conference on Biological Innovations & Computational Exploration For Pandemic Challenges (BICPAC'22) on 24<sup>th</sup> & 25<sup>th</sup> **February 2022** organized by Department Of Biotechnology & Bioinformatics at Bishop Heber College (Autonomous) TIRUCHIRAPPALLI – 620 017(PP 73)
  18. Entamopathogenic Nematodes as a Biological Agent against Insects in 7<sup>th</sup> Go Green Summit **2021**, on 14th – 15th October 2021 organised by ISERS (**International** Society of Environmental Relationship and Sustainability at Manila, Philippines. ISBN: 978-81-951121-4-2 Page | 33.
  19. Evaluation of Bioarmor<sup>TM</sup> and Bioharmony<sup>TM</sup> on *Solanum melongena* (Brinjal) and *Abelmoschus esculentus* L.( Bhenidi) for drought mitigation effects presented in the **Virtual International** Conference on “Ecotoxicology – Impacts, Assessment and Mitigation” organised by PG & Research Department Of Zoology, Lady Doak College, Madurai on 16th & 17th September **2021**
  20. Bioaction of the peels of *Carica papaya* l. with silver nanoparticle” presented in the National Symposium on Advances in Cancer Research (NSACR- **2018**) on 14<sup>th</sup> February 2018 organised by Karpagam Academy of Higher Education, Tamil Nadu
  21. Silver nanoparticle- An overview of Industrial application in Cosmetics” presented in **National** Conference on Emerging Trends in Materials -2017, Department of physics, Chemistry and Biotechnology, Mary Matha College of Arts and Science, Periyakulam on 6<sup>th</sup> March 2017.
  22. “Nanoparticles sources and toxicity “ presented in the **National** Conference on Emerging Trends in Materials -2017, Department of physics, Chemistry and Biotechnology, Mary Matha College of Arts and Science, Periyakulam on 6<sup>th</sup> March 2017.
  23. Green synthesis and Antimicrobial Activity of Silver Nano particles using *Senna auriculata* flower extract presented in the **International** conference on Emerging Trends in Synthesis of Nano Particles in Agri Biotechnology - Research and Commercialization. Organized by Loyola Academy Degree & PG College at Old Alwal, Secunderabad - 500 010, Telangana state, India from 25<sup>th</sup> to 27<sup>th</sup> February 2016.
  24. Green synthesis and Antimicrobial Activity of Silver Nano particles using *Moringa oleifera* flower extract presented in the **International** conference on Emerging Trends in Synthesis of Nano Particles in Agri Biotechnology - Research and Commercialization. Organized by Loyola Academy Degree & PG College at Old

- Alwal, Secunderabad-500 010, Telangana state, India from 25<sup>th</sup> to 27<sup>th</sup> February 2016.
25. "Green synthesis and Antibacterial Activity of Silver Nano particles using *Oriza sativa* Husk Extract" presented in the **National** seminar on "Interdisciplinary Application of Biology" Sponsored by UGC. PG & Research Centre of Zoology at J.A. College for women (A), Periyakulam on 28<sup>th</sup> & 29<sup>th</sup> January 2015.
  26. "Industrial waste management" presented in the **National** conference on "Technology for wealth from waste" (Recycling, recovery and Remanufacturing) organized by Loyola Institute of Frontiers Energy(LIFE) & Loyola ICAM College of Engineering and Technology(LICET) at Chennai on 8<sup>th</sup> & 9<sup>th</sup> February 2013.
  27. "Effect of Probiotic bacteria (Commercial *Lactobacillus*) on the survival and growth performance of *Cirrhinus mrigala*" presented in the **National** seminar on "New Frontiers in Biology" organised by J.A. College for Women (A) at Periyakulam on 18<sup>th</sup> & 19<sup>th</sup> December 2012.
  28. "Allelopathy as a Participatory Technology for Resource Poor Banana Farmers" presented in the International Conference on Science, Society and Sustainability "Many Species, One Planet" organised by Lady Doak College, Madurai from 11<sup>th</sup> to 13<sup>th</sup> January 2012

### Seminar Attended

1. Participated in the Synchronised Bird Census 2024 (Phase 1 Wetland Birds) Conducted by Srivilliputhur Megamalai Tiger Reserve, Megamalai Division, Theni – Tamil Nadu Forest Department on 27<sup>th</sup> and 28<sup>th</sup> January 2024.
2. National Conference on Frontiers in Life Science Research NCFLSR – 24. 23 January 2024 organised by PG & Research Department of Zoology The American College, Madurai Tamilnadu, India
3. National Webinar on Interdisciplinary Approaches in Biology Organised by JA College Periyakulam in Collaboration with Christ College Kerala on 6<sup>th</sup> December 2023
4. Participated in the **National** Xavier Board Annual General Body Meeting 2023 on Institutional Preparedness for the Future: Challenges and Opportunities in Higher Education held at Rajagiri Business School, Kochi, Kerala from 21-23 October 2023, organised by Xavier Board of Higher Education in India, 31, Primrose Road, Bangalore, 560 025
5. Participated in IP Awareness/ Training Programme under National Intellectual Property Awareness mission on December 16<sup>th</sup> 2022 organised by Intellectual Property Office India
6. Participated in the **National** 24<sup>th</sup> Triennial Conference of Xavier Board member institutions held on from **October 22<sup>nd</sup> - 24<sup>th</sup>, 2022 at St. Joseph Vaz Spiritual Renewal Centre, Goa.** Organised by Xavier Board of Higher Education on India
7. **National** Academic Collaboration Meet 2022 organised by Xavier Board of Higher Education on 14<sup>th</sup> and 15<sup>th</sup> May 2022 at St. Albert's College (Autonomous) Ernakulam.
8. National Seminar on (Taxonomy, Biodiversity and Conservation organised by the PG and Research Department of Advanced Zoology & Biotechnology and Loyola Institute of Frontier Energy (LIFE) Loyola College, Chennai in Collaboration with Zoological Survey of India (ZSI) Kolkata, Ministry of Environment, Forest and Climate Change (MoEF & CC) Government of India on

- 11<sup>th</sup> and 12<sup>th</sup> February 2019.
9. **UGC Sponsored National** seminar on “Ranking the Research Publications: Citation Analysis, Citation Databases and Anti-Plagiarism. Central Library, J.A. College for women (A), Periyakulam. 27 & 28/1/2016
  10. **National** seminar on “Interdisciplinary Application of Biology” Sponsored by UGC. PG & Research Centre of Zoology J.A. College for women (A), Periyakulam. 28 & 29/1/2015.
  11. **International** seminar on Modern Trends in Applied Microbiology. PG Department of Zoology J.A. College for women (A), Periyakulam. 19/8/2013.
  12. **National** seminar on “New Frontiers in Biology” Sponsored by UGC. PG Department of Zoology J.A. College for women (A), Periyakulam. 18<sup>th</sup> & 19<sup>th</sup>/12/2012.
  13. Seminar on “Molding the Christian youth in the light of Christ”. J.A. College for women (A), Periyakulam. 15/09/2011.
  14. **National** Level Seminar on “Human Rights” organized by IQAC. J.A. College for Women (A), Periyakulam. 9 - 10.12.2010.
15. **State** level seminar on “Biodiversity- Measures for Conservation and Management”
- J.A. College for Women (A), Periyakulam. 16/12/2010.
16. **National** Level Seminar on “Inculcation of Values for Holistic Life Amidst Technological Scenario”. J.A. College for Women (A), Periyakulam. 06 & 07/12/2010.
  17. **State** level seminar on “Social work Practice in Mental Health: Contemporary Roles, Tasks and Challenges.” Department of Social Sciences, Lady Doak College. Madurai. 29/10/2009.
  18. Awareness programme on SILKMARK. PG Department of Zoology, APA College for women, (A), Palani. 17/7/2009.
  19. **State** level one-day seminar on “Modern Biological Sciences” with a support of Indian National Science Academy New Delhi. PG Department of Zoology, J.A. College for Women (A), Periyakulam. 27/ 01/2009.
  20. **State** level seminar on “Christian Values for wholesome Life” sponsored by Xavier Board of Higher Education in India, J.A. College for Women (A), Periyakulam. 29/8/2008.

### Conferences Participated

1. **International conference** on Emerging Trends in Synthesis of Nano Particles in AgriBiotechnology - Research and Commercialization. Loyola Academy Degree & PG College, Old Alwal, Secunderabad-500 010, Telangana state, India. 25-27/2/2016.
2. **14<sup>th</sup> FAOBMB Congress & 84<sup>th</sup> Annual Meeting of SBC (I) Current Excitement in Biochemistry and Molecular biology for Agriculture and**

- medicine by** Centre for Cellular and Molecular Biology, Hyderabad, India. BITS Pilani, Hyderabad, India. 27-30/ 11/2015.
3. **National** conference on “Technology for wealth from waste” (Recycling, recovery and Remanufacturing. Loyola Institute of Frontiers Energy(LIFE) & Loyola ICAM College of Engineering and Technology(LICET), Chennai. 8&9//2013.
  4. **International** Conference on Science, Society and Sustainability “Many Species, One Planet”. Lady Doak College Madurai. 11 -13/01/2012.
  5. **International** conference on “BIOETHICS”. M.T.W.U. Kodaikanal. 24 – 26/9/2008.

### Workshop / Training Participated

1. Five Day Faculty Development Programme on AI Tools for Streamlining Academic Research and Paper Writing conducted online during December 05th to 09th, 2023, organized by Scientific Research Reports, Chennai, India.
2. Participation the one-day FDP of Blooms Taxonomy in Teaching and Learning Organized by Sansnow’s Nebal Professional foundation (Approved by MSME and ministry of corporate affairs Government of India) of February 16, 2023.
3. Participated in Five Days Virtual Faculty Development Programme on Positive Aspects of Teaching Practices held on 20/2/2023 to 24/2/2023 organised by IQAC and PG and research Centre of Commerce, Theivanai Ammal College (Autonomous) Villupuram
4. Participated in 7 Day National Level Online Faculty Development Program on Outcome Based Education (OBE) organised by St. James College of Nursing and St. James College of Pharmaceutical Sciences, Chalakudy in association with The Kerala State Higher Education Council from 08<sup>th</sup> March to 15<sup>th</sup> March 2023
5. Participated in the International Webinar Series on “Recent Advances in Biological Research” organized by the Department of Botany, PSGR Krishnammal College for Women, Coimbatore on 23rd & 24th March 2023.
6. One Day Training on “ Bee Keeping and Apiculture” on 16<sup>th</sup> September 2021 Organized by Department of Entomology held at Agricultural College and Research Institute , Madurai.
7. National Workshop on Microbial tool and Bioremediation (NWMB-2017) organized by Research Centre and PG Dept. of Zoology, at J.A College for Women (A). Periyakulam on 9<sup>th</sup> & 10<sup>th</sup> February 2017.
8. State level one day Workshop on Polymerase Chain Reaction- Techniques organized by Research Centre and PG Dept. of Zoology, J.A College for Women (A). Periyakulam on 11<sup>th</sup> & 12<sup>th</sup> September 2015.
9. A **State Level Workshop** on Statistical Packages for The Social Sciences (SPSS) organized by PG & Research Centre of Zoology, J.A. College for Women (A), Periyakulam from 24 to 28 August 2015.
10. One Day Mushroom Training, Department of Floriculture and Medicinal Crops, Horticultural College & Research Institute, Periyakulam on 14/7/2015.
11. Leadership **Training** programme for the faculty members of JAC(A) Periyakulam. Centre for Education Beyond Curriculum (CEDBEC) Christ University, Bangaluru on 29&30/6/2015.
12. **National** level Workshop on E-Content Development for Effective Teaching and

- Learning. Dept. of physics, J.A College for Women (A). Periyakulam. 11-13/9/2014.
13. **National** level motivational cum capacity building workshop for college teachers organized by Xavier Board of Higher Education, Western Region (India). Pilar DeeptiSadan, Goa. 21-22/3/2014.
  14. **State level Workshop** on “Advanced Techniques in Biotechnology. Dept of Biochemistry & Biotechnology, Sourashtra college Madurai. 23-25/1/2014.
  15. **State level Workshop** on “Reforms in Curriculum Development and examination System”. J..A..College for Women (A). Periyakulam. 13/11/2013.
  16. **Counsellor Training Course in accordance with the standards of Anugraha Institute of Counselling.** J..A..College for Women (A). Periyakulam. 10/6/2013
  17. Online short course on Entrepreneurship Development in Food Processing (EDFP) organized by the Department of Technology Dissemination, National Institute of Food Technology Entrepreneurship and Management (NIFTEM) - Thanjavur held on 27<sup>th</sup> 28<sup>th</sup> January 2022
  18. Two day Workshop on Interactive E- Content Development, organized by the PG Department of Computer Science, Jayaraj Annapackiam College for Women, Periyakulam from 21.01.2022 to 22.01.2022
  19. **State Level Workshop** on Statistical Packages for The Social Sciences (SPSS). PG Department of Zoology J.A. College (A), Periyakulam. 11 -15/2/2013 3 days’ Environmental awareness programme. Anglade Institute of Natural History, Shenbaganur, Kodaikanal. 20-22/2/2012.
  20. **International workshop** on Profiling Research Publications for Quality Research. Sri Saradha College for women. Tirunelveli. 01-02-2012 **State level workshop** on “Hands on Training in Avian Studies”. PG Department of Zoology J.A. College (A), Periyakulam. 14-15/2/2012.
  21. **Workshop** on “Recent Trends in Science for Talented Rural School Students of Periyakulam Educational District”. PG Department of Zoology J.A. College (A), Periyakulam. 12&13/10/2011.
  22. Two days’ **Workshop** on “Higher Education in a Changing Environment”. J.A.C (A), periyakulam. 26 & 27 -11/2010.
  23. **National** Level Workshop on “Techniques in Animal Cell Culture”. Lady Doak College. Madurai. 22 -26 /2/2010.
  24. **State level seminar cum Workshop** on “Future Scope for Young Botanists in Herbal Industries”. S.F.R. College for women. Sivakasi. 09/10/2009.
  25. The **course** on Social Analysis”. IDEAS. Madurai. 07-12/ 06/2009.

### Recourse Person

1. Served as a resource person in the Inservice Training to Science Teachers Catalysed and Supported by Tamil Nadu State Council for Science and Technology, Chennai organised by PG and Research Centre of Zoology, JA College (Autonomous) Periyakulam. Theni District held during 4,5,6,8,9,/1/2024
2. Served as a Jury in the Rock N Roll on Old Songs competition held on 15<sup>th</sup> and 16<sup>th</sup> December 2023 held at JA College (Autonomous) Periyakulam. Theni District
3. Served as a Chair person in the Faculty Development programme on Intellectual Property Right and Innovative Research Methods organised by Research Committee and IQAC, JA College Periyakulam, Theni on 24/11/2023

4. Served as a Chair person in the National Webinar on Interdisciplinary Approaches in Biology Organised by JA College Periyakulam in Collaboration with Christ College Kerala on 6<sup>th</sup> December 2023
5. Served as a resource person on the topic “Green Synthesis of Nano Particles and Their Characterization” 3-Day National Workshop on 6,7,& 8 December 2022 Organized by the Department of Biotechnology, Loyola Academy, Secunderabad. Andhra Pradesh.
6. Served as a External Practical Examiner from 23<sup>rd</sup> to 26<sup>th</sup> May 2022 at HKRH College , Uthamapalayam-625533
7. Served as a resource person on the topic “Value Addition on Spirulina Cultivation” in Capacity Building, Skill Enhancement Compulsary Course (SECC2) for the students on 13<sup>th</sup> April 2022 organized Jayaraj Annapackiam College for Women (Autonomous) Periyakulam.
8. Served as a resource person on the topic “Mushroom Cultivation ” in Capacity Building, Skill Enhancement Compulsary Course (SECC2) for the students on 12<sup>th</sup> March 2021 organized Jayaraj Annapackiam College for Women (Autonomous) Periyakulam.
9. Served as a resource person on the topic “Mushroom Cultivation and spirulina Production” on 11th December 2020 organized at Carmel Philosophy College, Pushparam, Karumathur, Madurai-625514.
10. Served as a resource person for the Technical Session II Bio Control” in one day State Level Seminar on Environmental Biotechnology on 5<sup>th</sup> March 2019 organized by Department of Biotechnology and Microbiology, Mary Matha College of Arts and Science Periyakulam.
11. Served as a Resource person in the in service Training Programme for the Science Teachers –Theni District, Catalyzed and Supported by Tamil Nadu State Council for Science & Technology (TNSCST) Government of Tamil Nadu Chennai on 21<sup>st</sup> February **2019** organized by Jayaraj Annapackiam College for Women (Autonomous) Periyakulam.
12. Served as a Chairperson for the “National Symposium on Advances in Cancer Research (NSACR- 2018) on 14<sup>th</sup> February **2018** organised by Karpagam Academy of Higher Education, Tamil Nadu.
13. Served as a resource person on the topic “Positive Visualization” in orientation programme for the students on 22<sup>nd</sup> to 24<sup>th</sup> November 2017 organized by Jayaraj Annapackiam College for Women (Autonomous) Periyakulam.
14. Served as a resource person to deliver a talk on Mushroom Culture in one week NSS Camp on 17<sup>th</sup> November to 23<sup>rd</sup> November 2016 organized by Jayaraj Annapackiam College for Women (Autonomous) Periyakulam.
15. Served as a resource person to deliver a talk on Mushroom Culture in one day NSS Camp on 15<sup>th</sup> November 2017 organized by Jayaraj Annapackiam College for Women (Autonomous) Periyakulam.
16. Served as a resource person to deliver a talk on Mushroom Culture in one day NSS Camp on 14<sup>th</sup> November 2017 organized by Jayaraj Annapackiam College for Women (Autonomous) Periyakulam.
17. Served as a member of Youth Talk Jury Panel for the selection of regional level prelims of “ ICTACT Youth Contests” conducted by ICTACT Tamil Nadu on 12<sup>th</sup> and 13<sup>th</sup> August 2016.
18. Served as a resource person to deliver a talk on Mushroom Culture in one day workshop for economically weaker students supported by Tamilnadu State Council for Science & Technology (TNSCST) Government of TamilNadu

Chennai on 10<sup>th</sup> February 2014 organized by Jayaraj Annapackiam College for Women (Autonomous) Periyakulam.

### Guest Lectures in Club and Cells

S. No	Title	Date/ Year	Name of the Club
1	Impact of pesticide on human health on 28/10/2022	28/10/2022	Eco Club, Jayaraj Annapackiam College for Women, Periyakulam
2	Bird's Conservation	17/8/2017	Avian Club, Jayaraj Annapackiam College for Women, Periyakulam
3	Wetland bird's identification	27/9/2016	Avian Club, Jayaraj Annapackiam College for Women, Periyakulam
4	Organic Farming and Seedproduction	11/7/2015	Avian Club, Jayaraj Annapackiam College for Women, Periyakulam
5	Economic Importance of Birds	27/1/ 2014	Avian Club, Jayaraj Annapackiam College for Women, Periyakulam

### ONLINE Courses and Workshop Attended

1. Participation the one day FDP of Blooms Taxonomy in Teaching and Learning Organized by Sansnow's Nebal Professional foundation (Approved by MSME and ministry of corporate affairs Government of India) of February 16, 2023.
2. Participated in the Two days National Level online workshop on Molecular Docking organs of by Nirmala College for women. Coimbatore in collaboration with Auxillium college, vellore and Providence college for women, Nilgris on 20.02.2023 & 21.02.2023
3. Participated in five Days virtual faculty Development Programme on positive Aspects of Teaching practices held on 20.02.2022 to 24.02.2022 organized by IQAC and pot & Research Department of commerce Therivanai Ammal College for women (Autonomous) Villupuram



4. International webinar on Recent Trends in Life Sciences 5<sup>th</sup> and 6<sup>th</sup> January 2021 organised by PG and Research Centre of Zoology, J.A. College for women, Periyakulam
5. International webinar on Application of Data Sciences in Logistics and supply chain management. (ADALS2K21) On 28 Aug 2021 organised by Department of International Business, Karaikudi
6. webinar on Honey bee: Hope foe life On 27Aug 2021 organised by Department of IIC, J.A. College for women, Periyakulam
7. National webinar on Journey of *C.elegans* trends in Biotechnology On 13 Aug 2021 organised by Department of Microbiology and Biotechnology, Mary Matha College, Periyakulam.
8. International webinar on Advanced training scopus paper drafting and free publication process On 22 july2021- Aug16 2021 organised by EUDOXIA Research Centre, Pune, India
9. Five Day Faculty Development Programme on Insights into Marine Biodiversity and Taxonomy, organised by the Centre for Climate Change Studies. Sathyabama Institute of Science and Technology, Chennai from 10<sup>th</sup> to 14<sup>th</sup> August 2020.
10. State level Webinar on “Triage Crisis and Universal Remedy - Covid-19 Perspective” on 3rd June 2020 organised by National Service Scheme, Jayaraj Annapackiam College for Women (Autonomous) Periyakulam
11. Free Statistical Tool for Research Data Analysis and Research Publication with Special Reference to Citation Impact Factor and h Index on 1<sup>st</sup> and 2<sup>nd</sup> June 2020 organised by the Library of Jayaraj Annapackiam College for Women (Autonomous) Periyakulam.
12. International webinar on Brief Perspective of Nanotechnology - Biosynthesis and Bio- application of Nanoparticles from 27<sup>th</sup> to 29<sup>th</sup> May 2020 organised by PG and Research Centre of Zoology, Jayaraj Annapackiam College for Women( Autonomous).
13. International Webinar on “Past and Future of Dermatopotanical in Dermatopharmacology” held on May 26, 2020 organised by Department of Advanced Zoology and Biotechnology, Loyola College (Autonomous) Chennai, Tamil Nadu, India
14. National Webinar on “Outcome Based Education” organised by the Internal Quality Assurance Cell (IQAC) of Jayaraj Annapackiam College for Women (Autonomous) Periyakulam from 22<sup>nd</sup> to 29<sup>th</sup> May 2020.
15. International Webinar on "Biodiversity" organised by PG and Research Department of Zoology the American College Madurai on 22<sup>nd</sup> May 2020.
16. National level Webinar on "Biodiversity Conservation with Special Emphasis on Snakes" organised by Department of Zoology, Nallamuthu Gounder Mahalingam College, Pollachi, Tamil Nadu on 21<sup>st</sup> May 2020.
17. State level Webinar on “Virtual Reality” organised by Department of Computer Science and Engineering, St. Anne's College of Engineering and Technology on 20<sup>th</sup> May 2020.
18. National webinar on “Knowledge Gained Through the Challenging Exercise of NAAC: Success Story” organised by St. Joseph's College (Autonomous) Thiruchirappalli on 15<sup>th</sup> May 2020  
3Day online course on Apiculture from 13<sup>th</sup> to 15<sup>th</sup> May 2020 with the passing score of 85% organised by Department of Zoology, AYYA Nadar Janagi Ammal College Autonomous, Sivakasi.
19. Qualified the exam of one week STTP on Advanced Research Methodology from

- 11<sup>th</sup> May 2020 to 15<sup>th</sup> May 2020 organised by REST Society for Research International (RSRI) Krishnagiri, Tamil Nadu, India.
20. 3 day “Digital Marketing” Seminar Program held on 8<sup>th</sup> to 10<sup>th</sup> May 2020. organised by North Strom Academy, India's Largest Digital Marketing Seminar.
  21. National level online faculty development program on “Digital Tools for Smart Classrooms in Higher Education” held between 6<sup>th</sup> May 2020 and 7<sup>th</sup> May 2020 organised by Jayaraj Annapackiam College for Women Department of Computer Science Periyakulam (Autonomous) Periyakulam.
  22. 3 day National Level Faculty Development Programme held on 30<sup>th</sup> April, 1<sup>st</sup> May and 2<sup>nd</sup> May 2020 organized by BMM and B A M M C Department of Lala Lajpat Rai College of Commerce and Economics and University of Mumbai with North Strom Academy.
  23. National level online faculty development programme on "Effective usage of ICT Tools for E- Content Preparation between 27<sup>th</sup> April 2020 to 2<sup>nd</sup> May 2020 organised by Jayaraj Annapackiam College for Women (Autonomous) Periyakulam
  24. 10-day free online workshop for teachers from 21<sup>st</sup> April 2020 to 30<sup>th</sup> April 2020. During the workshop the following components are exposed: creation of basic e-content, Animated e-content, stop motion animation, editing e-content, creating interactive content and uploading the e content on the web organized by Universal Teacher's Academy Puducherry, India.

### Seminar and Workshop Organized

S.NO	Position	Title & Date	Sponsored	Place
1	Organizing Director	International Conference of Innovative Research and Development (ICIRD 2024)  Feb 27 <sup>th</sup> - 29 <sup>th</sup> 2024	Metharath University Thailand, J.A.College for Women, Periyakulam	Metharath University Thailand
2	Convener	International awareness programmes on Drug abuse among young people and its preventive methods. February 18 2023	Online Organization by anti-drug club, Red Ribbon Club & Youth Red Cross of JAC in collaboration with St. Aloysius college (Autonomous) Mangalore Karnadaka	Anti -Drug  J.A.College for Women, Periyakulam
3	Convener and Organizing	Regenerative Agriculture Training Programme on Agripreneurship on	Naandi Foundation  Mahindra Pride	PG& Research Centre of Zoology, J.A.College for Women,

	Secretary	<b>19/12/2022-21/12/2022</b>	<b>Classroom</b>	Periyakulam
4	Convener	Mushroom Fortified Bakery Products Preparation on 15 <sup>th</sup> December 2021	Startup programme- Mushroom Culture, JAC, Periyakulam	PG& Research Centre of Zoology, J.A.College for Women, Periyakulam
5	Organizing Secretary	International Webinar on Brief Perspectives of Nanotechnology- Biosynthesis and Application of Nanoparticles on 27 to 29 May 2020	JAC, Periyakulam	PG& Research Centre of Zoology, J.A.College for Women, Periyakulam
6	Organizing Secretary	National Workshop on Microbial tool and Bioremediation (NWMB- 2017) on 09 & 10 February, 2017	JAC, Periyakulam	PG & Research Centre of Zoology J.A. College for women (A), Periyakulam
7	Organizing Secretary	Two Days Science Academics, Lecture Workshop on Frontier Lecture In Biology on 21&22 /3/2016	IAS(Bengaluru) INSA (New Delhi) NASI (Allahabad)	PG & Research Centre of Zoology J.A. College for women (A), Periyakulam
8	Organizing Secretary	<b>National</b> seminar on “Interdisciplinary Application of Biology” 28& 29/1/2015	UGC	PG & Research Centre of Zoology J.A. College forwomen (A), Periyakulam
9	Organizing Secretary	<b>International Webinar on</b> “Brief Perspectives Of Nanotechnology- Biosynthesis And	J.A. College for women (A), Periyakulam	PG & Research Centre of Zoology J.A. College for women (A),

		Application Of Nanoparticles.		Periyakulam
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### Research Guidance (Completed and Ongoing)

S.No	Discipline	Ongoing	Completed year
1	Under Graduate		2
2	Post Graduate	1	14
4	M.Phil		2 (2017)
3	PhD	4	

### Question Setter

S.NO	College Name	Year
1	St. Mary's College, Thoothukudi District, Tamil Nadu	2020
2	St. Mary's College, Thoothukudi District, Tamil Nadu	2021
3	St. Mary's College, Thoothukudi District, Tamil Nadu	2022

### Active Life member

1. Active Life member of the Microbiologists Society, India from 15 Oct 2022 her Life Membership no is MS/LM/812 -MICROBIOLOGISTS SOCIETY, INDIA (Reg. No. MAHA/4814/SAT)

### Editorial Board Member

<b>S.No</b>	<b>Journal Name</b>	<b>ISSN No</b>
<b>1</b>	International Journal of Biological Technology	<b>0976-4313</b>
<b>2</b>	Sciencia Acta Xaveriana, An International Research Journal of Basic and Applied Sciences	<b>0976-1152</b>

### **Other Activities**

1. Conducted the Slogan writing competition in connection with International day Against Drug Abuse on "Drug Abuse and Harmful Health Effects" to the students on 04.01.2023.
2. Conducted the Verse Writing Competition among students on The Prevention of Drug in the Society on 8.01.2023.
3. Conducted the Essay writing competition on "Drug Abuse and Prevention Strategies" to the students on 12.01.2023.
4. Conducted the Drawing competition on "Social Media Impact on Drug Abuse" to the students on 21.01.2023.
5. Conducted an International E-Quiz on Drug Abuse and Prevention Strategies on 09.01.2023.
6. conducted the poster making competition on "Drug Abuse Among Teenages – causes and effects" on 28.01.2023.
7. Conducted an awareness programme to post a selfie picture to give awareness on anti-drug to the public on 11.01.2023 through online mode.
8. Organised an Campaign to promote the students of Anti-Drug Club to post "ENNAKU VENDAM – Message in social media" on 18.01.2023.
9. Organised the students to post "ENNAKU VENDAM HASHTAGS IN TWITTER" on 23.01.2023.
10. Organised **SHARING DRUG AWARENESS AMONG FRIENDS** on 15.02.2023.
11. Conducted the Anti-Drug Awareness Pamphlets distribution to the people in the nearby areas on 20.02.2023.
12. Organized human chain among the students on 21.02.2023.
13. Conducted an awareness mime programme on 23.02.2023.
14. Conducted a **SILAMBAM** Demonstration for promoting good mental health and stability among the students on 24.02.2023

15. Conducted an International Awareness Programme on Drug Abuse Among Young People and Its Preventive Methods 18.02.2023
16. Conducted Poster Making Competition on Drug Abuse On 21.07.2023
17. Conducted A Pamphlet Distribution Campaign In-Collaboration with Mar Ivanios College (Autonomous), Thiruvananthapuram, Kerala to Raise Awareness About Drug Abuse in The Nearby Villages On 05.08.2023
18. Conducted an Awareness Talk on Signs - Symptoms & Prevention Methods of Drug Abuse On 10.08.2023
19. Conducted an Awareness E-Quiz on Understanding the Dangers of Drug Abuse and It's Prevention Methods on 14.09.2023
20. Conducted Drug Abuse Awareness Mini Marathon Competition on 8.12.2023