

## 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)  
**Employee ID No** : JACZOA10  
**Telephone** : 04546-231482  
**Mobile** : 8148818245  
**E.mail** : [kalai.akila@gmail.com](mailto:kalai.akila@gmail.com)  
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[Dr. S.Iruthaya Kalai Selvam - Google Scholar](#)

### **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** : 17 Years (2008-2025)

Self-Financing (Govt. Sanctioned Post of Dr.Agatha) :2008-2014

Regular Appointment :2014-2025

Teaching and Research Experience : 17 Years

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

**Publication of the Patent in Official Journal of The Patent Office : 4**

<b>S. No</b>	<b>Title</b>	<b>Journal Name &amp; Issue No.</b>	<b>Ref. No. / Application No./Date of Filing</b>	<b>App. Number</b>	<b>Publication Date</b>
<b>1</b>	Guardian Drive: Real-Time Monitoring and Assistance for Safer Roads	Official Journal Of The Patent Office	15/04/2025	202541036377	02/05/2025
<b>2</b>	Nanotechnology -Driven Enhancement of Plants Défense Compounds To Address Abiotic And Biotic Stresses, With Emphasis On Parasitic Nematode Stress	Official Journal Of The Patent Office	15/04/2025	202541036376	02/05/2025
<b>3</b>	Cost-Effective Water Can For Removing Microplastics And Hardness	Official Journal Of The Patent Office	15/04/2025	202541036366	02/05/2025
<b>4</b>	Eco-Friendly Steam Toilet Cleaner	Official Journal Of The Patent Office	15/04/2025	202541036367	02/05/2025
<b>5</b>	A Kind of Mushroom Fortified Cake Preparation Method Thereof	Official Journal Of The Patent Office 05/2022	21/01/2022 TEMP/E1/4 097/2022- CHE	202241003519 A	04/02/2022
<b>6</b>	A Nutritional Rich Mushroom Chocolate	Official Journal Of The Patent Office 09/2022	26/02/2022 TEMP/E- 1/11974/20 22- CHE	202241010371	04/03/2022
<b>7</b>	A Nutritional Rich Spirulina	Official Journal	29/04/2022 TEMP/E-	202241025287 A	13/05/2022

	Jelly	Of The Patent Office 19/2022	1/27134/20 22- CHE		
8	A Method of Preparation of An Edible Product Mushroom Marshmellow	The Patent Office Journal No. 28/2022 Dated 15/07/202 2	07/07/2022	202241039161 A	15/07/2022

### 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 :3

1. Refresher Course in Interdisciplinary Advances in Biological Sciences (Biotechnology, Biophysics, Bioinformatics, Physics, Chemistry, Biochemistry, Nanoscience, Botany, Microbiology, Zoology) conducted by the UGC Malaviya Mission Teacher Training Centre, University of Calicut, Kerala from 15-10-2024 to 28-10-2024 University Grants Commission Malaviya Mission Teacher Training Centre University of Calicut and obtained grade 'A+'.
2. UGC\_HRDC, Bharathiyar University, Coimbatore (Synthetic Biology (ID) 02.02.2021 to 15.02. 2021
3. UGC\_HRDC, Bharathiyar University, Coimbatore (Zoology) 05.09.2022 to 21.09.2022

### Significant Professional Contribution :10

1. Received a Certificate of Recognition for Scholarly Research Work, along with a grant of ₹25,000 from Jeevanadhi Charitable Trust (No. 001, Shreya Residency, Near Sal Orchid Apartment, Chelekere, Kalyan Nagar Post, Bangalore – 560043), in support of further research and ongoing contributions to academic and societal progress.
2. **TNSCST-RFRS Funded students/Scholars project entitled** “Development of Green synthesized Zinc oxide nano nematicide employing *Tagetes erecta* leaf extract an ecofriendly approach for controlling *Meloidogyne incognita* on *Solanum lycopersicum*,” with a grant of Rs.3,00,000 for the period of 2023-2025
3. **STIPEND for Research Scholars-(Fulltime) for the research work entitled** “Formulation of Silver Nano Wound Irrigation Solution for Diabetic Foot Ulcer using *Loquat* Extract and its Bio Activities in Wister Albino Rats”with the grant of Rs.60,000

for the period 2022-2023 and Rs.60,000 for the period 2023-2024

**4. JACFRP funded students/Scholars project** entitled “Budget friendly AI and IOT based self-regulating cultivation environment to increase the yield of milky and oyster mushroom” with a grant of Rs.10,000 for the period 2024-2025.

**5. JACFRP funded students/Scholars project** entitled “Extraction and Characterization of Biopolymers from different Mushroom for Sustainable Paper cup production” with a grant of Rs.10,000 for the period 2024-2025.

**6. JACFRP funded students/Scholars project** entitled “Development of mosquito repellent using Garlic crude Extract” with a grant of Rs.10,000 for the period 2023-2024.

**7. 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.

**8. JACFRP funded students/Scholars project** entitled “Green Synthesis of Zinc oxide nanoparticles using *Tagetes erecta* root extract against *Meloidogyne incognita*” with a grant of Rs.10,000 for the period 2022-2023.

**9. 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.

**10. 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.

### **Reviewer in Journal:2**

1. Received the "Certificate of Excellence in Reviewing" from the *Asian Food Science Journal* on 16.09.2024, in recognition of outstanding contribution to the quality of the journal
2. Received the "Certificate of Reviewing The Research Papers In The International Conference On Innovative Research And Development (ICIRD - 2024) Held Between 26th - 28th February, 2024. Organized By Metharath University, Thailand, ESN Publications, India, Mother Teresa Women's University, Kodaikanal Jayaraj Annapackiam College For Women, Thamaraiikulam, Theni Christ College (Autonomous), Irinjalakuda

### Details of Ph.D Scholar 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	Completed	2022
2	<b>A. Vinothini</b> <b>PHDZOO21F004</b>	Biosynthesis of Silver Nanoparticles using <i>Xenorhbdus</i> Against Insect Pest	Completed	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</b> <b>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
5	<b>A. Sofia Marjana Begam</b>	Biomedical Application of Chitin based Biopolymer	Ongoing	2024
6	<b>Nagapriya</b>	Synthesis of nanonematicide from <i>Calocybe indica</i>	Ongoing	2025

### Academic and Administration Activities

Position	Duration	Organization
Member	2022-Till Date	Governing Body
Vice Principal	2022-Till Date	
Compliance Officer of Study in India	12.12.2023 - Till Date	Study in India
Member	2022-Till Date	Planning and Evaluation Committee
Member	2022-Till Date	Examination and Awards Committee
Member	2022-Till Date	Staff Council
Member	2022-Till Date	Grievance Redressal Cell
Member	2022-Till Date	Disciplinary Committee
Member	2022-Till Date	Research Committee
Co-ordinator	2024-till Date	IPR Cell
Member	2021- Till Date	Anti-Drug Club
Convener, Internship Activity Coordinator	2019-Till Date	Institution Innovation Council (IIC)

Member	2022-Till Date	Anti – ragging cell
Co Ordinator of academic collaboration	2022- Till Date	Xavier Bord Higher Education, India and International Collaboration
Member in	2022-Till Date	Academic Counsel
Hostel Director	2021-2022	St. Anne’s Hostel
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 in-charge	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

#### **Award/Prize/Certificate etc. 14**

S.No.	Name of Award	Awarding Agency	Year
1	Inspiring Women Leadership Award - Best Women Faculty Award	Genesin of Educational Impressions, An internationally accredited ISO 9001:2015 certified company based in Roorkee District Haridwar, Uttarakhand, India	2025
2	Certificate of Recognition for Scholarly Research Work	ANADHI JEEVANADHI CHARITABLE TRUST No: 001, Shreya Residency, Near Sal Orchid Apartment, Chelekare, Kalyan Nagar Post Bangalore, Pin: 560043	2024
3	Excellence in Research Award	Metharath University, Thailand	2024
4	Award recognizes certificate for the recognition of exceptional dedication to fostering knowledge, nurturing minds, and promoting academic excellence  Date of Issue: May 30, 2024	Shinawatra University, Thailand	2024
5	Senior Innovator Award	G.Venkataswamy Naidu College (Autonomous)Kovilpatti-628502	2023

		Sponsored by Tamnilnadu State Council For Science And Technology(Govt Of Tamil Nadu), National Council For Sciecne 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)	
6	Women of Excellence Award 2023	Indiaan World Records (IWR), Chennai (Reg. No. 165 TN, No 5663413 GOVT of India)	2023
7	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
8	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
9	V.O.C. Pottum Manithar	V.O.C Ilakiya Vaanam at Ottapidaram on 4.09.2022	2022
10	Best Teacher Award by	Indian World Records, Chennai (Reg. No. 165 TN, 4403292 GOVT of India)	2021
11	Golden Star Award	Women Consumer Protection Association, Madurai. (Reg No 35/99)	2021
12	Maha Vidya Mathangi Award	Indira Sundaram Charitable Trust, Tirupur (Reg No 22/2020)	2020
13	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> February2018
14	Secured University Rank at B. Sc Degree Semester Examination	Madurai Kamaraj University, Madurai	2000

	held in April 2000 in Branch VI (a)-Zoology by Madurai Kamaraj University, Madurai on 2000		
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### Edited Book

Year	Title	Publication	ISBN
2024	Today's Multidisciplinary Research Perspectives Volume -1	AUTHORS CLICK PUBLISHING Area no.55, Ashok Vihar, Phase 2, Bilaspur, Chhattisgarh 495001. www.authorsclick.com	ISBN: 978-81-19368-81-5
2024	Proceedings of International Conference on Innovative Research and Development (ICIRD - 2024)	ESN PUBLICATIONS, 3/151-A, Muthuramalingapuram, Kalloorani Post, Aruppukottai Taluk, Virudhunagar District, Tamilnadu, India, Pincode- 626 105 Ph:+91- 8838173189	ISBN: 978-93-90188-66-6

### Books and Manual Published:7

S.No	Year	Title	Publication	ISBN
1	2024	Bio Entrepreneurship	AUTHORS CLICK PUBLISHING Area no.55, Ashok Vihar, Phase 2, Bilaspur, Chhattisgarh 495001. www.authorsclick.com	ISBN: 9789366657158
2	2024	Fermented and Food and Beverages	Alpha International Publication	
3	2024	Fundamentals of Zoology	ESN publications, 3/151-A, Muthuramalingapuram, Kalloorani Post, Aruppukottai Taluk, Virudhunagar District, Tamilnadu, India,	ISBN: 978-93-90188-88-8
4	2024	Spirulina Entrepreneurship	ESN publications 3/151-A, Muthuramalingapuram, Kalloorani Post, Aruppukottai Taluk, Virudhunagar District, Tamilnadu, India,	ISBN: 978-93-90188-71-0
5	2022	Handbook on Mushroompreneurship,	New Century Book House (p) Ltd	978/81/2344-238-9



6	2019	Feathered Friends in Theni	Golden Net Computers,13-16 Prem Towers I Floor,Old Karur, Road. Melachinthamani, Trichy.	978-81-923121-8-7
7	2017	<i>A Lab Manual</i> based on National Workshop on Microbial tool and Bioremediation (NWMB-2017)	PG & Research Centre of Zoology. Periyakulam	978 – 81– 931923 – 8 –2

### Course Material Prepared:

Book Title	Year	Beneficiaries
Apiculture	2009 – 2010	III BSC zoology Students

### Book Chapter Published :33

S. No.	Name of the Staff member	Title of the Chapter / Paper	Title of the Book	Name of the Publisher (Organizer of the seminar or symposia)	ISBN, month, year
1	D.Kasthuri Santira Kumari, Research Scholar in Zoology <b>Dr. S. Iruthaya Kalai Selvam</b> Assistant Professor in Zoology Dr.S. Catherine P. Alexander, Associate Professor of Zoology	Chapter 15 – The Advancement of Crispr Technology in Life Sciences in the Areas of Precision Medicine and Agriculture	“Advancement in Life Science: Exploring Recent Trend.”	Euphoria Publishers	ISBN 978-81-970537-4-0 May 2024 National
2	D.Kasthuri Santira Kumari, Research Scholar in Zoology <b>Dr. S. Iruthaya Kalai Selvam</b> Assistant Professor in Zoology C. Sagaya Rani, Associate Professor of Zoology	Chapter 7 – Nanomedicine Revolution: Enhancing Health Care with Nanotechnology in Wound Healing	“Advancement in Life Science: Exploring Recent Trend.”	Euphoria Publishers	ISBN- 978-81-970537-4-0 May 2024 National
3	D.Kasthuri Santira Kumari, Research Scholar in Zoology <b>Dr. S. Iruthaya Kalai Selvam</b> Assistant Professor in Zoology Dr.M.R. Delphine Rose Associate Professor of	Chapter 7 – Adapting Life: Exploring the Impact of Climate Change on Terrestrial and Aquatic Biodiversity	“Dynamic Trends in Multi-Domain Integration”	String Production	ISBN- 978-93-6048-526-9 May 2024 National

	Zoology Dr.V. Jemima Florence Borgia, Associate Professor of Zoology				
4	<b>Dr. S. Iruthaya Kalai Selvam</b> Assistant Professor in Zoology D.Kasthuri Santira Kumari, Research Scholar in Zoology	Chapter 15 – Approachable Ways to Modern Trends in Interdisciplinary Research	“Modern Trends in Multi-Disciplinary Research (Vol-1)”	String Production	ISBN- 978-93-6048-157-5 May 2024 National
5	<b>Dr. S. Iruthaya Kalai Selvam</b> Assistant Professor in Zoology D.Kasthuri Santira Kumari, Research Scholar in Zoology Dr. A. Irudaya Lourdu Gladis, Assistant Professor in Botany	Chapter 11 – The Impact of Climate Change on Plant Biodiversity.	“Dynamic Trends in Multi-Domain Integration”	String Production	ISBN- 978-93-6048-526-9 May 2024 National
6	D.Kasthuri Santira Kumari, Research Scholar in Zoology <b>Dr. S. Iruthaya Kalai Selvam</b> Assistant Professor in Zoology	Chapter 1 – An Introduction to Economic Zoology.	“Today’s Multidisciplinary Research - Volume 3	Prime International Publication.	978-93-6010-068-1 July 2024 International
7	D.Kasthuri Santira Kumari, Research Scholar in Zoology <b>Dr. S. Iruthaya Kalai Selvam</b> Assistant Professor in Zoology	Chapter 1 – “Trajectories in Life Sciences	“Today’s Multidisciplinary Research Perspectives ” – Volume II	Authors click Publishing	978-81-19368-56-3 July 2024 International
8	D.Kasthuri Santira Kumari, Research Scholar in Zoology, <b>Dr.Sr. S. Iruthaya Kalai Selvam,</b> Assistant Professor in Zoology, Dr.Sr. A. Irudaya Lourdu Gladis, Assistant Professor in Botany	Chapter 13 – A Symphony of Life – Understanding the Biological World”	“Today’s Multidisciplinary Research Perspectives – Volume I	Authors Click publishing	978-81-19368-81-5 July 2024 International
9	D.Kasthuri Santira Kumari, Research Scholar in Zoology, <b>Dr.Sr. S. Iruthaya Kalai Selvam,</b> Assistant Professor in Zoology	Chapter 11 - The Omics That Play a Vital Role in Human Beings	Today’s Multidisciplinary Research Perspectives ” – Volume II	Authors click Publishing	978-81-19368-56-3 July 2024 International
10	<b>Dr.Sr. S. Iruthaya Kalai Selvam,</b>	<b>Chapter 6:</b> Biofabrication of Silver	Today’s Multidisciplinary	Authors click	978-81-19368-56-3

	Assistant Professor in Zoology, D.Kathuri Santira Kumari, Research Scholar in Zoology, T.Manimegalai, Research Scholar in Zoology	Nanoparticles from Citrus Peel Extract: Characterization, Larvicidal Activity, and Applications in Aedes aegypti Mosquito Control	nary Research Perspectives ” – Volume II	Publishing	July 2024 International
11	<b>Dr. Sr. S. Iruthaya Kalai Selvam</b> , Assistant Professor in Zoology, L. Archana Devi , Research Scholar in Zoology A. Vinothini Research Scholar in Zoology	<b>Chapter 7:</b> Real-World Strategies for Sustainable Water Management	Today’s Multidisciplinary Research Perspectives ” – Volume II	Authors click Publishing	978-81-19368-56-3 July 2024 International
12	D. Kasthuri Santira Kumari, Research Scholar in Zoology <b>Dr. S. Iruthaya kalai Selvam</b> L.Archana devi, Research Scholar in Zoology T.Manimegalai Research Scholar in Zoology	<b>Chapter 8:</b> The Role of Endophytes in Enhancing Plant Growth and Stress Tolerance	Today’s Multidisciplinary Research Perspectives ” – Volume II	Authors click Publishing	978-81-19368-56-3 July 2024 International
13	<b>Dr. S. Iruthaya kalai selvam</b> Assistant Professor in Zoology, <b>Kasthuri Santira Kumari</b> Research Scholar in Zoology <b>T.Manimegalai</b> 3 Research Scholar in Zoology <b>L.Archana devi</b> Research Scholar in Zoology	<b>Chapter 12</b> Role Of Pheromones In Animal Behavior	Today’s Multidisciplinary Research Perspectives ” – Volume II	Authors click Publishing	978-81-19368-56-3 July 2024 International
14	<b>Dr. S. Iruthaya kalai selvam</b> Assistant Professor in Zoology, <b>Kasthuri Santira Kumari</b> Research Scholar in Zoology	Genetic Engineering Strategies to Enhance Phytochemical Production in Plants for Medicinal Applications	Today's Multidisciplinary Research Perspectives Volume-5	Authors click Publishing	ISBN: 978-93-6665-861-2 International

15	T.Manimegalai Research Scholar in Zoology <b>Dr. S. Iruthaya Kalai Selvam</b> Assistant Professor in Zoology D.Kathuri Santira Kumari, Research Scholar in Zoology	Chapter 18 Diverse Dynamics: Economic, Agricultural, and Morphological perspectives on Root - Knot Nematode(Meloidogyne	“Today's Multidiscipli nary Research Perspectives -Volume 4	Thanuj Internation al Publication	978-93- 94638-990 September 2024 International
16	L. Archana Devi K.S. Bremkumar Chelladurai S. Iruthaya Kalai Selvam and A. Antony Selvi	Pharmacological Properties Of Horse Mint (Mentha longifolia): An Overview	Dynamic Trends in Multi- Domain Integration Volume -2	AUTHORS CLICK PUBLISHING	ISBN: 978- 81-19368- 31-0 2024
17	D.Kasthuri Santira Kumari, Research Scholar in Zoology <b>Dr.Sr.S.Iruthaya Kalai Selvam,</b> Assistant Professor in Zoology	Chapter 4 (Synthetic Biology: Engineering Life for the 21 <sup>st</sup> Century)	Today's Multidiscipli nary Research Perspectives -Volume 4”.	Thanuj Internation al Publishers, Tamilnadu.	978-93- 94638-990
18	<b>Dr.Sr.S.Iruthaya Kalai Selvam,</b> Assistant Professor in Zoology D.Kasthuri Santira Kumari and T.Manimegalai, Research Scholar in Zoology	Chapter 12 (Genomics of Animal Evolution: Using Bioinformatics to study the Genetic Basis of Evolutionary Adaptations in various Animal species)	Today's Multidiscipli nary Research Perspectives -Volume 4”.	Thanuj Internation al Publishers, Tamilnadu.	978-93- 94638-990
19	D.Kasthuri Santira Kumari, Research Scholar in Zoology <b>Dr.Sr.S.Iruthaya Kalai Selvam,</b> Assistant Professor in Zoology	Chapter 13 (Silver Nanoparticles in Breast Cancer Research and Treatment.)	Today's Multidiscipli nary Research Perspectives -Volume 4”.	Thanuj Internation al Publishers, Tamilnadu.	978-93- 94638-990
20	D.Kasthuri Santira Kumari, Research Scholar in Zoology <b>Dr.Sr.S.Iruthaya Kalai Selvam,</b> Assistant Professor in Zoology	Chapter 14 (Silver Nanoparticles and their potential Bioactivities.)	Today's Multidiscipli nary Research Perspectives -Volume 4”.	Thanuj Internation al Publishers, Tamilnadu.	978-93- 94638-990
21	<b>Dr.Sr.S.Iruthaya Kalai Selvam,</b> Assistant Professor in Zoology D.Kasthuri Santira Kumari and T.Manimegalai, Research Scholar in Zoology	Chapter 15 (The Role of Artificial Intelligence in Forecasting Modeling of Ecosystem Dynamics)	Today's Multidiscipli nary Research Perspectives -Volume 4”.	Thanuj Internation al Publishers, Tamilnadu.	978-93- 94638-990
22	D.Kasthuri Santira Kumari, Research	Chapter 1 (Astrozoology: Exploring Animal	Dynamic Trends in	Authors click	978-81- 19368-31-0

	Scholar in Zoology <b>Dr.Sr.S.Iruthaya Kalai Selvam,</b> Assistant Professor in Zoology	Biology beyond Earth)	Multi-Domain Integration	Publishing, Tamilnadu.	
23	D.Kasthuri Santira Kumari, Research Scholar in Zoology <b>Dr.Sr.S.Iruthaya Kalai Selvam,</b> Assistant Professor in Zoology	Chapter 4 (Signalling Pathways in Plant Immunity and Human Health)	Dynamic Trends in Multi-Domain Integration	Authors click Publishing, Tamilnadu.	978-81-19368-31-0
24	L. Archana Devi Research Scholar in Zoology <b>Dr.Sr.S.Iruthaya Kalai Selvam,</b> Assistant Professor in Zoology	Chapter 10 (Pharmacological properties of Horse Mint ( <i>Mentha longifolia</i> ))	Dynamic Trends in Multi-Domain Integration	Authors click Publishing, Tamilnadu.	978-81-19368-31-0
25	<b>Dr.Sr.S.Iruthaya Kalai Selvam,</b> Assistant Professor in Zoology D.Kasthuri Santira Kumari and T.Manimegalai, Research Scholar in Zoology	Chapter 12 (Early -Onset Diabetes: Decoding the Spectrum, Gender Variations, and Root causes)	Dynamic Trends in Multi-Domain Integration	Authors click Publishing, Tamilnadu.	978-81-19368-31-0
26	T.Manimegalai, Research Scholar in Zoology <b>Dr.Sr.S.Iruthaya Kalai Selvam,</b> Assistant Professor in Zoology	Chapter 13 (Exploring Biodiversity: Analysing monkey population Variations in the Kodaikanal Hills)	Dynamic Trends in Multi-Domain Integration	Authors click Publishing, Tamilnadu.	978-81-19368-31-0
27	<b>Dr.Sr. S. Iruthaya Kalai Selvam,</b> Assistant Professor in Zoology D.Kasthuri Santira Kumari, Research Scholar in Zoology A.Vinothini, Research Scholar in Zoology T.Manimegalai, Research Scholar in Zoology L.Archana Devi, Research	The role of artificial intelligence in enhancing healthcare outcomes	Today's Multidisciplinary Research Perspectives	Authors click publishing	978-81-19368-81-5
28	<b>Dr.Sr. S. Iruthaya Kalai Selvam,</b> Assistant Professor in Zoology/// D.Kasthuri Santira Kumari, Research Scholar in Zoology //	Published a book chapter Green Silver Nanoparticle using Alium cepa Peel Extract and Antimicrobial Activity against Selected Human	Innovative Research and Development Volume III	ESN Publications 3/151-A Muthurali ngapuram, Viruthuna	ISBN 978-93-90188-38-3

	A.Vinothini, Research Scholar in Zoology, T.Manimegalai, Research Scholar in Zoology L.Archana Devi, Research	Pathogens		gar, India	
29	<b>Dr.Sr. S. Iruthaya Kalai Selvam</b> , Assistant Professor in Zoology/ D.Kasthuri Santira Kumari, Research Scholar in Zoology.	Diabetes Mellitus-An Overview with Symptoms, Diagnosis and Treatment	Research Insights of Life Science Students (Volume - 4)	JPS Scientific Publications, India.	ISBN Number: 978-93-91342-27-2
30	<b>Dr.Sr. S. Iruthaya Kalai Selvam</b> , Assistant Professor in Zoology T.Manimegalai, Research Scholar in Zoology L.Archana Devi, Research	Review on Medicinal plants potential against Covid-19., Tamil Nadu, India	Recent Research in Medicinal plants – S.M. Prasad	Krishna Publication House No 303, Yashkunji Devbaug Anantwadi, Bhavnagar, Gujarat 364002	ISBN 978-93-90627-63-9
31	L. Archana Devi, Dr. <b>Sr. S. Iruthaya Kalai Selvam</b> , Dr. G. Chelladurai, Dr. M. Arun and K.S. Bremkumar	Chapter - 5 Water Resources for Sustainable Mariculture	ADVANCE S IN Multidisciplinary C and urrent Research Volume - 15	Published By: Weser Books Weser Books, No. 79737 Äussere Weberstr. 57 02763 Zittau, Germany	ISBN: 978-3-96492-488-9 2023
32	Biodiversity and Conservation	Diversity of Butterflies in Gandhigram Rural Institute-Deemed University, Gandhigram and Sirumalai hill stations, Tamil Nadu, India	Biodiversity and Conservation	Elite Publishing House New Delhi -110002 (INDIA)	ISBN: 978-81-955567-0-0
33	Biodiversity and Conservation	Diversity of Avifauna in Gandhigram Rural Institute- Deemed University, Gandhigram and Sirumalai hill stations, Tamil Nadu, India	Biodiversity and Conservation	Elite Publishing House New Delhi -110002 (INDIA)	ISBN: 978-81-955567-0-0

## Gen Bank Submission:6

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 sequence</a>	1121_404_023_P CR_VINO_N_D2 A_C11.ab1	Jan 31, <b>2022</b> <a href="#">Search: OM403107 - NLM (nih.gov)</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_27 F_C01.ab1	July 12, <b>2022</b> <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	Stenotrophomonas maltophilia		09-SEP-2023 <a href="https://www.ncbi.nlm.nih.gov/nuccore/OR512347">https://www.ncbi.nlm.nih.gov/nuccore/OR512347</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	Stenotrophomonas pavanii		09-SEP-2023 <a href="https://www.ncbi.nlm.nih.gov/nuccore/OR512327">https://www.ncbi.nlm.nih.gov/nuccore/OR512327</a>

	kumar.K			
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/nuccore/OR512348">https://www.ncbi.nlm.nih.gov/nuccore/OR512348</a>

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1. Vinothini Arumugam, Aashaq Hussain Bhat, **Iruthaya Savarirayan**, and Farid S. Ataya Efficacy of *Photorhabdus luminescens* Supernatant in Controlling *Meloidogyne incognita*: A Potential Biocontrol Strategy for Root-Knot Nematodes (2024) PLANT PHYSIOLOGY, ISSN 1062-3590, Biology Bulletin, 2024, Vol. 51, Suppl. 1, pp. S145–S155. © Pleiades Publishing
2. Vinothini Arumugam · Aashaq Hussain Bhat **Iruthaya Kalai Selvam. Savarirayan** · Farid S. Ataya ·Dalia Fouad Root-knot nematode suppression through biogenic silver nanoparticles: a promising path for sustainable agriculture J Nanopart Res (2024) 26:249 <https://doi.org/10.1007/s11051-024-06160-7>
3. Lakshmanan Archana Devia, Iruthaya Kalai Selvama,, Karuppiiah Nagaraj, b. Muthukrishnan Arun, Natchiappan Senthilkumar, Krishnagowdu Saravanan, Prasenjit Maity, Renuka Venkatachalapathy, Srinivasan Bremkumar', Thangavel Manimegalai :Potassium silicate applications in okra (*Abelmoschus esculentus* (L.) Monech) cultivation: A comprehensive review on mitigating abiotic and biotic stresses Physiological and Molecular Plant Pathology 134 (2024) 102437 ELSEVIER journal homepage: [www.elsevier.com/locate/pmpp](http://www.elsevier.com/locate/pmpp) Contents lists available at ScienceDirect
4. M. Karthick1, B. Samuel, **Iruthaya Kalai Selvam**, C. Sagaya Rani And R. Azhagu Raj1 (2024) Ultrastructure and morphometric characteristics of *Oecophylla smaragdina* (Fabricius, 1775) (Hymenoptera: Formicidae) Journal of Biological Control, ISSN Online 2230 -7281, 38(1): 73-81, 2024 DOI:10.18311/jbc/2024/35481 <https://informaticsjournals.com/index.php/jbc/article/view/35481/29612>
5. 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
6. 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



7. 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
8. Jamuna Selvi A, Karthick. Iruthaya Kalai Selvam Sagaya Rani and Azhagu Raj. Morphometric Analysis of Native Freshwater Fishes from Manur Pond, Tirunelveli District, Tamil Nadu, India. Bulletin of Environment, Pharmacology and Life Sciences Bull. Env. Pharmacol. Life Sci., Vol 13 [1] December 2023:242-247 Online ISSN 2277-1808 ©2023 Academy for Environment and Life Sciences, India Journal's URL:<http://www.beppls.com>
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13. 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)
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15. 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>
16. A. Vinothini, **S. Iruthaya Kalai Selvam** (2022) Extracellular biosynthesis of

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19. 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,
20. 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
21. S. Muthuveerammal, \*C. SagayaRani, P. Nagapriya, **S. Iruthaya Kalai Selvam**, A. Vinothini Study on Prevalence of Leprosy in Man at Theni, Tamil Nadu REST Journal on Emerging Trends in Modelling and Manufacturing **Vol: 8(1), 2022** REST Publisher; ISSN: 2455-4537
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## UNDER PROCESSING

Two Paper in Science Direct  
Four Patent

## Proceedings 28

1. *Proceedings Of International Conference On Innovative Researc And Development (Icird - 2024) Photorhabdus* mediated synthesis of silver nanoparticlces against *Meloidogyne incognita*. Organized by Shinawatra University, Thailand and ESN Publications, India from May 28<sup>th</sup> -30th 2024. ISBN: 978-93-90188-66-6
2. Presented a paper entitled Green Silver Nanoparticle Synthesis using *Allium cepa* Peel Extract and Antimicrobial Activity against Selected Human Pathogens in the International Conference on Innovative Research and Development (ICIRD - 2024) held between 26th - 28th February, 2024. Jointly organised by Metharath University, Thailand, ESN Publications, India, Mother Teresa Women's University, Kodaikanal Jayaraj Annapackiam College for Women, Periyakulam, Theni Christ College (Autonomous), Irinjalakuda
3. Isolation and identification of *Heterorhabditis indica* using *Galleria mellonella* baiting method published in the Proceedings of National seminar on “Interdisciplinary trends in life sciences” on 25<sup>th</sup> September, 2024 organised by PG and Research Center of Zoology, Jayaraj Annapackiam College for women Periyakulam
4. Evaluation of the impact of *Tagetes erecta* flower extract on morphological alterations and lethal effects in *Meloidogyne incognita* published in the Proceedings of National seminar on “Interdisciplinary trends in life sciences” on 25<sup>th</sup> September, 2024 organised by PG and Research Center of Zoology, Jayaraj Annapackiam College for women Periyakulam
5. A comprehensive analysis of diabetic patient’s foot ulcer grade and the microbial communities published in the Proceedings of National seminar on “Interdisciplinary trends in life sciences” on 25<sup>th</sup> September, 2024 organised by PG and Research Center of Zoology, Jayaraj Annapackiam College for women Periyakulam
6. *Photorhabdus* mediated synthesis of silver nanoparticlces against *Meloidogyne incognita*. published in the Proceedings of International Conference on innovative Research and Development (ICIRD-2024). Organized by Shinawatra University, Thailand and ESN Publications, India from May 28<sup>th</sup> -30th 2024. ISBN : 978-93-90188-47-5
7. Enhancing Morphological Growth and Yield of *Abelmoschus Esculentus*. L (Okra) with Potassium Silicate Foliar Application published in the Proceedings of International Conference on Microalgae: Biodiversity and Bioprospecting (ICMBB 2024) (20th & 21st February 2024) ICMBB21 organised by Department of Botany, St. Mary's College (Autonomous), Thoothukudi.
8. Green Synthesis and Characterization of ZnO Nanoparticles from *Tagetes erecta* for *Meloidogyne incognita* Management Published in the proceedings of 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
9. 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 of 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
10. Study of Butterfly Biodiversity from November to January at J.A. College Campus, Theni District, Tamil Nadu, India Published in the proceedings of

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11. Winged Guardians: Avian Diversity to Assess Ecosystem Health on Periyakulam Pond, Theni District, Tamil Nadu Published in the proceedings of 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
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  18. 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" 17th& 18th March, **2022** at PSGR Krishnammal College for Women, Coimbatore, 641004, Tamil Nadu organized by Department of Botany (pp -32)
19. 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)
  20. 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" 17th& 18th March, **2022** at PSGR Krishnammal College for Women , Coimbatore, 641004, Tamil Nadu organized by Department of Botany (pp -35)
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28. "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 34

1. Presented Paper in the One Day National Conference on "Innovative Approaches To Quality Assurance In Higher Education For Sustainable Futures" organised by the IQAC, Jayaraj Annapackiam College For Women (Autonomous), Periyakulam, Tamil Nadu on 9th January 2025. on the title of Innovative Approaches to Inclusive Education
2. Isolation and identification of **Heterorhabditis indica** using Galleria mellonella baiting method. National Seminar on Interdisciplinary trends in life sciences held on 25<sup>th</sup> September, 2024. Organised by PG and Research Center of Zoology, Jayaraj Annapackiam College for women Periyakulam
3. Evaluation of the impact of **Tagetes erecta** flower extract on morphological alterations and lethal effects in *Meloidogyne incognita*. National Seminar on Interdisciplinary trends in life sciences held on 25<sup>th</sup> September, 2024. Organised by PG and Research Center of Zoology, Jayaraj Annapackiam College for women Periyakulam
4. A comprehensive analysis of diabetic patient's foot ulcer grade and the microbial communities. National Seminar on Interdisciplinary trends in life sciences held on 25<sup>th</sup> September, 2024 organised by PG and Research Center of Zoology, Jayaraj Annapackiam College for women Periyakulam
5. *Photorhabdus* mediated synthesis of silver nanoparticles against *Meloidogyne incognita*. International Conference on innovative Research and Development (ICIRD-2024). Organized by Shinawatra University, Thailand and ESN Publications, India from May 28<sup>th</sup> -30<sup>th</sup> 2024. ISBN : 978-93-90188-47-5
6. Presented a paper entitled Green Silver Nanoparticle Synthesis using Allium cepa Peel Extract and Antimicrobial Activity against Selected Human Pathogens in the International Conference On Innovative Research And Development (ICIRD - 2024) held between 26th - 28th February, 2024. Jointly organised by Metharath University, Thailand, ESN Publications, India, Mother Teresa Women's University, Kodaikanal Jayaraj Annapackiam College for Women, Thamaraikulam, Theni Christ College (Autonomous), Irinjalakuda
7. Presented a Paper Title: Demat and Economic Growth in National Conference on "Strategies for career Growth and Financial Success in Capital Market" on 20th February 2024 Organized by Department of Commerce with Computer Application, Jayaraj Annapackiam College for Women (Autonomous) Periyakulam.
8. "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. of India, New Delhi.

9. 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.
10. 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
11. 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
12. 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
13. 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
14. 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.
15. 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.
16. 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.
17. 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**

18. 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**.
19. 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)
20. 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)
21. 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)
22. 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)
23. Influence of Potassium Silicate on the Morphological Growth Characters of *Abelmoschus esculentus* L.( Bhendi) 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)
24. 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.
25. Evaluation of Bioarmor<sup>TM</sup> and Bioharmony<sup>TM</sup> on *Solanum melongena* (Brinjal) and *Abelmoschus esculentus* L.( Bhendi) 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**
26. 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
27. 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.

28. "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.
29. 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.
30. 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.
31. "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.
32. "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.
33. "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.
34. "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 32

1. Participated in the One day seminar on International Collaboration For A Skilled Workforce 24-03-2025 Organized by Don Bosco Iti, Amsam, Skills For Progress (SKIP)
2. Participated in A SIX-DAYS NATIONAL-LEVEL VIRTUAL FACULTY DEVELOPMENT PROGRAM (FDP) Interdisciplinary Approaches on Green Chemistry, Biotechnology and Environmental Engineering (GCBE 2025) on 10<sup>th</sup> 15<sup>th</sup> February, 2025 organized by the Department of Chemistry. School of Sciences.
3. Women (Autonomous) has participated in the "Iupac-Global Women's Breakfast, Webinar on Accelerating Equity In Science" organized by the Department of Chemistry, SRM Institute of Science and Technology, Ramapuram campus, Chennai in association with Association of Chemistry Teachers (ACT), Mumbai on 11<sup>th</sup> February, 2025.

4. Attended Two Day National Level Faculty Development Programme (Online) Titled "Research Paper and Project Proposal Writing" on 07.02.2025 and 08.02.2025, Organized by Department of Humanities and Sciences, Sri Venkateswara College of Engineering & Technology (Autonomous), Andhra Pradesh, & A.C.T Academy, Kerala.
5. Attended One Day National Conference on "Innovative Approaches to Quality Assurance In Higher Education For Sustainable Futures" organised by the IQAC, Jayaraj Annapackiam College For Women (Autonomous), Periyakulam, Tamil Nadu on 9th January 2025
6. Participated in the Two Day National Seminar on Direct Benefit Transfer (Dbt) Scheme: An Initiative For Inclusiveness Sponsored by Indian Council of Social Science Research (ICSSR) SRC-HYDERABAD GAMO MANTRI KALYA PMGKY on 6th and 7th January, 2025 Organised by Research Committee & Pg And Research Department Of Commerce.
7. Participated in the International Webinar on The Contribution of Sri Lankans to the Enrichment of Tamil Culture organized by the PG & Research Centre of History, Jayaraj Annapackiam College for Women (Autonomous) Periyakulam, Theni Dt. on 7th October 2024.
8. Participated in National Seminar on Interdisciplinary trends in life sciences held on 25<sup>th</sup> September, 2024 organised by PG & Research Department of Zoology, Jayaraj Annapackiam College for Women (Autonomous), Periyakulam, Tamilnadu, India.
9. Participated in the International Webinar on "Multidisciplinary Approaches in Research for Sustainable Development" organized by PG & Research Centre of Zoology, Jayaraj Annapackiam College for Women (Autonomous), Periyakulam, Theni District, on 29th August 2024.
10. Participated in the International Conference On Innovative Research And Development (ICIRD - 2024) Organized by SHINAWATRA UNIVERSITY, Thailand and ESN PUBLICATIONS, INDIA held between 28th - 30th May, 2024.
11. Participated in National Conference on "Strategies for career Growth and Financial Success in Capital Market" on 20th February 2024 Organized by Department of Commerce with Computer Application, Jayaraj Annapackiam College for Women (Autonomous) Periyakulam.
12. 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.
13. 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
14. 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
15. 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

16. Participated in the Annual General Body Meeting of Physical Education Department for the Principals of all the Affiliated Colleges of our Mother Teresa Women's University held on 28.07.2023 at 10.30 am at our Mother Teresa Women's University, Attuvampatti Campus, Kodaikanal.
17. 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
18. 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
19. **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.
20. 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.
21. **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
22. **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.
23. **International** seminar on Modern Trends in Applied Microbiology. PG Department of Zoology J.A. College for women (A), Periyakulam. 19/8/2013.
24. **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.
25. Seminar on "Molding the Christian youth in the light of Christ". J.A. College for women (A), Periyakulam. 15/09/2011.
26. **National** Level Seminar on "Human Rights" organized by IQAC. J.A. College for Women (A), Periyakulam. 9 - 10.12.2010.
27. **State** level seminar on "Biodiversity- Measures for Conservation and Management" J.A. College for Women (A), Periyakulam. 16/12/2010.
28. **National** Level Seminar on "Inculcation of Values for Holistic Life Amidst Technological Scenario". J.A. College for Women (A), Periyakulam. 06 & 07/12/2010.
29. **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.
30. Awareness programme on SILKMARK. PG Department of Zoology, APA College for women, (A), Palani. 17/7/2009.
31. **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.
32. **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 :6**

1. Participated in the International Conference On Innovative Research And Development (ICIRD - 2024) (Online) held between 26th - 28th February, 2024. Organized by Metharath University, Thailand ESN Publications, India Mother Teresa Women's University, Kodaikanal Jayaraj Annapackiam College for Women, Thamaraiikulam, Theni Christ College (Autonomous), Irinjalakuda
2. **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.
3. **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.
4. **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.
5. **International** Conference on Science, Society and Sustainability “Many Species, OnePlanet”. Lady Doak College Madurai. 11 -13/01/2012.
6. **International** conference on “BIOETHICS”. M.T.W.U. Kodaikanal. 24 – 26/9/2008.

### **Workshop / Training Participated 27**

1. One day Conclave: for Leaders in Higher Education on 25<sup>th</sup> January 2025 in Christ Deemed to be University, Bangalore Organised by Christ University Higher Education Leadership Institute
2. Dr. Sr. S. Iruthaya Kalai Selvam, Assistant Professor of Zoology, participated in the State Level Seminar on Minority Higher Education: Trends, Challenges and Opportunities organized by Consortium of Christian Minority Higher Educational Institutions in St. Joseph's College (Autonomous), Tiruchirappalli on 5th October, 2024.
3. 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.
4. 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.
5. 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
6. 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
7. 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.
8. 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.
  9. 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.
  10. 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.
  11. 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.
  12. One Day Mushroom Training. Department of Floriculture and Medicinal Crops, Horticultural College & Research Institute, Periyakulam on 14/7/2015.
  13. 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.
  14. **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.
  15. **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.
  16. **State level Workshop** on “Advanced Techniques in Biotechnology. Dept of Biochemistry & Biotechnology, Sourashtra college Madurai. 23-25/1/2014.
  17. **State level Workshop** on “Reforms in Curriculum Development and examination System”. J..A..College for Women (A). Periyakulam. 13/11/2013.
  18. Counsellor **Training Course in accordance with the standards of Anugraha Institute of Counselling**. J..A..College for Women (A). Periyakulam. 10/6/2013
  19. 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
  20. 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
  21. **State Level Workshop** on Statistical Packages for The Social Sciences (SPSS). PG Department of Zoology J.A. College (A), Periyakulam. 11 -15/2/2013 days’ Environmental awareness programme. Anglade Institute of Natural History, Shenbaganur, Kodaikanal. 20-22/2/2012.
  22. **International workshop** on Profiling Research Publications for Quality Research. SriSaradha 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.
  23. **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.

24. Two days' **Workshop** on "Higher Education in a Changing Environment". J.A.C (A), Periyakulam. 26 & 27 -11/2010.
25. **National** Level Workshop on "Techniques in Animal Cell Culture". Lady Doak College. Madurai. 22 -26 /2/2010.
26. **State level seminar cum Workshop** on "Future Scope for Young Botanists in Herbal Industries". S.F.R. College for women. Sivakasi. 09/10/2009.
27. The **course** on Social Analysis". IDEAS. Madurai. 07-12/ 06/2009.

### **Recourse Person : 25**

1. Served as a resource person in One Day Capacity Building Program on Mushroom Based Startup Models: Sustainable Value Addition Business Opportunities for Young Entrepreneurs Jointly Organized by Arul Anandar Incubation Center in association with IOAC. Dean Research and MHRD IPR & Innovation Cell Institution's Innovation Council In Collaboration with Jeyaraj Annapackiam College for Women Periyakulam, Theni – 625601 on 26/3/2025
2. Served as a resource person in Three Days Training Programme on Mushroom Cultivation And Its Value Addition from 04.02.2025-06.02.2025 under the "Scheduled Caste (SC) and Scheduled Tribes (ST) Cell TNSCST sponsored by Seed Division, Department of Science and Technology, Govt of India, Tamil Nadu State Council for Science and Technology Govt of TamilNadu and PG and Research Centre of Zoology Jayaraj Annapackiam College for Women Periyakulam on the title on Mushroom cultivation and its maintenance on 4<sup>th</sup> Februar 2025.
3. Served as Chair Person in the International Conference on Innovative Research And Development (ICIRD - 2024) from February 28th - 30th, 2024 Shinawatra University, Thailand
4. Invited as Chief Guest for the Madurai CRI West Christmas Celebration held on 15.12.2024, *Organized by the Conference of Religious of India – West Zone, Madurai*
5. Served as a Chair person in the International Webinar on Multidisciplinary Approaches In Research For Sustainable Development' Organised By Pg & Research Centre Of Zoology on 29th August 2024
6. 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
7. 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
8. 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
9. 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
10. 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.
11. Resource Persons for the training on mushroom cultivation and value-added

products from mushroom on 19th November 2022, in clerisian seminary at Karumathur.

12. We are pleased to invite you and your students to be the resource persons for the training on mushroom cultivation and value-added products from mushroom on 19th November 2022, in our seminary at Karumathur
13. Served as a External Practical Examiner from 23<sup>rd</sup> to 26<sup>th</sup> May 2022 at HKRH College , Uthamapalayam-625533
14. 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.
15. 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.
16. 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.
17. 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.
18. 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.
19. 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.
20. Served as a resource person on the topic “Positive Visualaization” 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.
21. 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.
22. 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.
23. 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.
24. 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.
25. Served as a resource person to deliver a talk on Mushroom Culture in one dayworkshop 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:5

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:24

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 2021organised by Department of International Business, Karaikudi
6. webinar on Honey bee: Hope foe life On 27Aug 2021organised by Department of IIC, J.A. College for women, Periyakulam
7. National webinar on Journey of *C.elegans* trends in Biotechnology On 13 Aug 2021organised 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 July 2021- Aug 16 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. 3 Day 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 21st 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:10

S.NO	Position	Title & Date	Sponsored	Place
1	Convener	National Day Exhibition - 22/2/2015	J.A.College for Women, Periyakulam	J.A.College for Women, Periyakulam
2	Organizing Director	International Conference of Innovative Research and Development (ICIRD 2024) Feb 27 <sup>th</sup> - 29 <sup>th</sup> 2024	Jointly organised by Metharath University Thailand, ESN publication, Mother Teresa Women's university, Christ University, Irinjalakuda and J.A.College for Women, Periyakulam	Metharath University Thailand
3	Convener	International awareness programmes on Drug abuse among young people and its preventive methods. February 18 2023	Anti-drug club, Red Ribbon Club & Youth Red Cross of JAC in collaboration with St. Aloysius college (Autonomous) Mangalore Karnadaka	Anti -Drug Club J.A.College for Women, Periyakulam
4	Convener and Organizing Secretary	Regenerative Agriculture Training Programme on Agripreneurship on 19/12/2022-21/12/2022	Naandi Foundation Mahindra Pride Classroom	PG& Research Centre of Zoology, J.A.College for Women, Periyakulam
5	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
6	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
7	Organizing Secretary	National Workshop on Microbial tool and Bioremediation(NWMB-2017) on 09 & 10 February	JAC, Periyakulam	PG& Research Centre of Zoology, J.A.College for Women, Periyakulam

8	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, Periyakulam
9	Organizing Secretary	<b>National</b> seminar on Interdisciplinary Application of Biology 28& 29/1/2015	UGC	PG& Research Centre of Zoology, J.A.College for Women, Periyakulam
10	Organizing Secretary	<b>International Webinar on</b> Brief Perspectives Of Nanotechnology Biosynthesis And Application Of Nanoparticles	PG& Research Centre of Zoology, J.A.College for Women, Periyakulam	PG& Research Centre of Zoology, J.A.College for Women, Periyakulam

### Research Guidance (Completed and Ongoing)

S.No	Discipline	Ongoing	Completed
1	Under Graduate		2
2	Post Graduate		18
4	M.Phil		2 (2017)
3	PhD	4	2

### 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

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

### **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