Name : J. Stella Mary
Designation : Assistant Professor

Department : Zoology
Date of Joining : 29.09.2009
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# **Working Experience** (13 years)

- Working as Assistant Professor in the Department of Zoology, The American College, Madurai since **16**<sup>th</sup> **June 2017** till date.
- Worked as a lecturer in the Department of Immunology & Microbiology, The American College, Madurai from **29**<sup>th</sup> **September 2009**. (8 years)

**Educational Qualification** 

Degree	College / University & Place	Year Completed
B.Sc	Sri Kaliswari College, Sivakasi	2007
M.Sc	The American College, Madurai	2009
M.Phil	Prist University	2010
Ph.D (Pursuing)	Madurai Kamaraj University	(Pursuing)
SET	Mother Tersa University, Kodaikanal	2016

### **Specialisation in Teaching:**

Immunology, Microbiology, Molecular Biology & rDNA technology

**Specialisation in Research**: Marine Biotechnology and Nanobiology

**Research Interests:** Potential Applications of Microbes in Environment Welfare.

# Membership:

- Life time member in Tamil Nadu Science Forum.
- Life time member in Institute of Engineering Research and Publication. (ID.No.**PM80319542)**

## Administrative /Academic Position/s (Held / currently holding):

Positions held/	Year - from (month/year)	
Currently holding	To (month/year)	
Superintendent, Women's Hostel	September 2009 – January 2012	

### Other activities / Academic credentials:

- Member in College NAAC Criterion VI preparatory Committee (Governance, Leadership and Management)
- Department NAAC Criterion V and VI documenting member.
- Executive member in Social committee.
- Faculty of Community College Medical Lab Technology.



- Project Coordinator for Library and Society of Library and Information Services Programme (LISP).
- Faculty of SLP (Child support work in Orphanages I) (2016-2018)
- Committee member and active participation in Admission work, Orientation, College day, Convocation, Alumni association etc.
- Organizing committee member in Conferences/Seminars organized by the Department.
- Academic adviser for the UG and PG students. (2018 batch).

### **Recognitions:**

- Chairperson for the Poster Presentation session in the International Conference on "Novel Paradigms in Microbiology for Sustainable Future" Organised by the Department of Microbiology, The American College, Madurai, TamilNadu, India on 10 and 11 November 2022.
- © Evaluator in the 30<sup>th</sup> National Children Science Congress, co-ordinated by TamilNadu Science Forum on 01 December 2022.
- Mentor for Government School Students in Young **Student Scientists Programme** organized by the College under the support of Tamil Nadu State Council for Science and Technology during 21.05.2022 to 02.06.2022
- © Evaluator in Science Exhibitions conducted in Madurai Public School, Thirupalai on 12 March 2021.
- Sevaluator in Science Competitions of "Vigyan Sarvartra Pujyate" Festival of SCoPE for all organized by the Ministry of Culture, Government of India, at The American College, Madurai
- © Evaluator in **Tamil Nadu Science Exhibition Forum on** 05.11.2019 held at Madurai Kamaraj University, Madurai.
- **S** BOS member in Community College- Medical Lab Technology
- SExternal practical examiner and End of Semester Examination Question setter for various colleges and Universities.
- ©3 Evaluator for Petri-Art event in Microfiesta 2020, 2022, 2023 (Intercollegiate event) organized by Dept of Microbiology, The American College, Madurai

#### **Executive/Organizing Committee Member**

- Organizing Committee Member in Three days Workshop on "Taxidermy- The Art of Biodesign" organized by the PG & Research Department of Zoology, The American College, Madurai from 12 September to 14 September 2023.
- Executive Member in DST sponsored INSPIRE Science Camp held at The American College during 07-11, February 2018.
- Executive Member in the All India Association for Christian Higher Education' (AIACHE) Golden jubilee Grand Finale celebrations held at The American College, Madurai, Tamil Nadu from 7th to 11th October 2016.
- Executive Member in DBT sponsored National Conference on "Community Microbial Consortia and the Human Holobiont Implications of Yet- Unculturable Microorganisms in Systemic health, Disease & Personalized Medicine, organized by The American College, Madurai, during 7 and 8 December, 2015.
- Association President of Microfiesta Intercollegiate Event organized during 11<sup>th</sup> March 2016 and 7<sup>th</sup> March 2017 in the Dept of Immunology and Microbiology.

#### **Awards**

• Received "Best Young Faculty Award" from Novel Research Academy, Puducherry, India during the Academic Year 2019 – 2020.

#### Orientation Course and Faculty Development Programme Attended

- Completed UGC sponsored **Orientation Programme** conducted by UGC Human Resources Development Centre, Madurai Kamraj University held from 10.07.2019 to 30.07.2019 and obtained "A" Grade.
- Completed **Two Weeks Faculty Development Programme** on "Managing Online Classes and Co- Creating MOOCS" conducted Teaching Learning Centre, Ramanujan College, University of Delhi sponsored by MHRD Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching, held from April 20 May 06, 2020.
- Two weeks online Faculty Development Programme (FDP) "Pedagogy and Research Methods", organized by of Human Resource Development Centre and Internal Quality Assurance Cell (IQAC) of AMET University from 24 May to 6 June, 2021.
- Completed Online **Two Week Interdisciplinary Refresher Course/Faculty Development Programme** On "Advanced Research Methodology 2.0" Conducted By Teaching Learning Centre, Ramanujan College University Of Delhi Under The Aegis Of Ministry Of Education Pandit Madan Mohan Malaviya National Mission On Teachers And Teaching From 17 June 01 July, 2021 And Obtained Grade A.
- Completed Online **Two Week Refresher Course in "Zoology"** conducted By Teaching Learning Centre, Ramanujan College University Of Delhi Under The Aegis Of Ministry Of Education Pandit Madan Mohan Malaviya National Mission On Teachers And Teaching from *28 November 12 December*, *2022* and Obtained Grade *A+*.
- Completed One Week Online Faculty Development Programme on Confluence of Revised Guidelines of IQAC conducted by IQAC of Arulmigu Palaniandavar Arts College for Women, from 18 November – 25 November 2022.

# Participation in UBCHEA sponsored programme

- Participated in the Indian Academy for Campus Ministry (IACM) held at the Senate of Serampore College (University), Kolkatta from 21 July 2023 to 31 July 2023.
- Participated in the Faculty development programme for Young faculty of colleges and Universities organised by St. Christopher,s college of education, Vepery, Chennai from 12 July 2022 to 16 July 2022.

#### **Research Guidance**

#### **Guided academic research project - 18 PG Students**

- Production and Characterization of secondary metabolites from Seaweed Associated endophytic fungi Aspergillus niger. (U. Meenoloshini, June 2022- April 2023)
- Production and Characterization of secondary metabolites from Seaweed Associated endophytic fungi Starmera stellimalicola (M01). (Kajini Mohammed, June 2022- April 2023)
- Isolation and Characterization of Endophytic Fungi from Seaweed *Gracilaria edulis*. (T. Raja Rajan, June 2021- June 2022)
- Isolation and Characterization of Endophytic Fungi from Seaweed *Codium dichotomum*. (S. Sumana Lakshmi, June 2021- June 2022)
- Impact of Covid-19 and Lockdown on Physical and Mental Health of School Students In Madurai (10-17years Of Age Group). (P. Suamthi, June 2020- April 2021)
- "Impact Of Covid 19 Lockdown on Eye Health Of College Students In Madurai District" (J. Emmimal, June 2020- April 2021)
- Isolation of seaweed associated microorganisms and assessing its antimicrobial efficacy. (Vignesh, June 2019- April 2020)
- Isolation and characterization of probiotic organisms from fresh fruits and vegetables. (Lin Bernadette Deepa, June 2017 April 2018)
- Green synthesis of silver nanoparticles using marine green seaweed *Padina tetrastomatica* and Screening its antimicrobial and antioxidants activities. (Chitra Devi, June 2016 April 2017)

- Biosynthesis of silver nanoparticles using marine green seaweed *Halimeda macroloba* and Screening its antimicrobial, antioxidants and antidiabetic activities. (Brinda M, June 2015 April 2016)
- Biosynthesis of silver nanoparticles using marine green seaweed *Caulerpa racemosa* and Screening its antimicrobial, antioxidants and antidiabetic activities. (Banumathi P, June 2015 – April 2016)
- Screening for antioxidants and antimicrobial activity of Brown seaweeds *Turbinaria* ornata and *Turbinaria conoides*. (P.Madhumitha, June 2014 April 2015)
- Screening for antioxidants and antimicrobial activity of Brown seaweeds *Padina gymnospora* and *Padina tetrastromatica*.( J.M.John Marshal, June 2014 April 2015)
- Determination of oxidative stress (ROS and Malondialdehyde), antioxidant level (total antioxidant status), C- reactive protein and quantification of serum selenium in the immune regulation of patients with Tuberculosis infection. (Nandhini, June 2011- April 2012)
- Quantification of Serum SGPT & SGOT, Zinc & Iron in Patients with Pulmonary Tuberculosis. (Oluoch Beatrice Akinyi, June 2011 April 2012)
- Invitro Cytotoxic Effect of Seaweed *Sargassam sp.,* against MCF-7 and Hep-2 Cell Lines. (Vinotha, June 2010 April 2011).

#### **Guided Group Projects - 5 UG Batches (25 students)**

- Isolation and Characterization of Bacteria from Rice Gundi Bug (lepto. (P. Gokul, S. Hari haran, M.R. Joshua, S. Karthick, S. Logesh, November 2022-April 2023)
- Study on diversity of Macrofungi at Alagar hills, Madurai (Ajith Pandian .M, Dharmalingam .M, Prdeepkumar .C, November 2020 April 2021)
- Isolation and Characterisation of Multidrug Resistance Organisms from Hospital Environment. (K Chaakaravarthy, B Karthikeyan, M Mukeshbabu, R Muthupandi, and T Raja Rajan, November 2019- April 2020)
- Green synthesis of silver nanoparticles from Blueberry fruit extract and Screening for its antimicrobial and antioxidants activities. (K Divya, B Krishnaveni, M Pon Lakshmi Priya, C Praveena, K Priyadharshini , K Ram Kumar, M Santhosh Kumar, S Sushmitha Meenakshi, Nov 2016 – April 2017)
- Screening for antioxidants, antimicrobial and antidiabetic activity of *Plumbago zeylanica* plant extracts. (Asaithambi T, Christy Joshi M, Kasthuri B, mehreen Tanaz A, November 2015– April 2016)

# **Research Publication**

#### **Articles Published in National & International Journals**

- J. Stella Mary and A.J.Thatheyus (2022) Synthesis and Characterization of Silver Nanoparticles from *Portieria hornemannii*". International Journal of Research and Analytical Reviews, 9(4), 310-314, ISSN 2348-1269.
- Stella Mary, Christy Joshi, Kasthuri (2022) Screening for Antimicrobial, Antioxidant and Antidiabetic activity of *Plumbago zeylanica* Plant Extracts, Bulletin of Environment, Pharmacology and Life Sciences, Vol 11 [9] August 2022: 115-121. Online ISSN 2277-1808.
- Published a research article in Tathapi Journal (UGC approved journal), 19(42), 2020, 261-267, ISSN 2320-0693, Impact factor 5.60 entitled "Screening of Some Traditionally Used Medicinal Plants For Their Potential Antibacterial Activity."
- Published a research article in JAC Journal of Science, Humanities and Management, 5(1), 2017, 224-234, ISSN 2347-9868, entitled "Antimicrobial potential of Metallic nanoparticles synthesized from Seaweeds: An Overview."
- Published a research article in *Journal of Global Biosciences*, ISSN 2320 1355, Vol 4 (2), 2015, P: 1551-1557, entitled "Role of Reactive Nitrogen Species in Cardiac Associated Complication Among Type II Diabetic Melitus Patients".

- Published a research article in *Asian Pacific Journal for Cancer Prevention* 13(12), 6073 6076, Impact factor 0.659 entitled "Invitro Cytotoxic Effect of Seaweed *Sargassam sp.*, against MCF-7 and Hep-2 Cell Lines".
- Published a research article in American Journal of Bio-pharmacology Biochemistry and Life Sciences (AJBBL) 2014 September, Vol. 4 (Suppl 1): P 67 entitled "Pytochemical characterization and antimicrobial effect of *Kappaphycus alvarezii* (sea weed) against chosen isolates."
- Published a research article in American Medical Journal 1(2), 83-86,2010, ISSN 1949-0070, Science Publication entitled "Zinc Deficiency and T Cell Dysfunctioning among Human Immunodeficiency Virus Sero Positives".
- Published a research article in American Medical Journal 1(2),77-79,2010, ISSN 1949-0070, Science Publication entitled "Determination of Iron Deficiency among Human Immunodeficiency Virus Sero Positives".

### **Book Chapter Publication**

 Published a Book Chapter: ZEBRAFISH- A MODEL ORGANISM FOR REGENERATION STUDIES: "Plants as Immunostimulants in Fish" (2016) Darshan Publishers, Tamil Nadu, India. Pp 123 – 140.

#### **Abstract Publication in Journal**

- Published an abstract in Infectious Diseases 2020, 20(Suppl 1) 324, <u>https://doi.org/10.1186/s12879-020-05038-y:ISSHID</u> (International Science Symposium on HIV and Infectious Diseases) entitled Determination of Oxidative Stress and functional role of C-Reactive Protein in patients with tuberculosis.
- Published an abstract in Infectious Diseases 2020, 20(Suppl 1) 324, <a href="https://doi.org/10.1186/s12879-020-05038-y:ISSHID">https://doi.org/10.1186/s12879-020-05038-y:ISSHID</a> (International Science Symposium on HIV and Infectious Diseases):ISSHID entitled Immune effector role of serum selenium among patients with Tuberculosis.

#### **Abstracts in Conference Proceedings**

• "Screening for Antimicrobial, Antioxidant and Antidiabetic activity of *Plumbago zeylanica* Plant Extracts" in the VOICE-Virutual 3<sup>rd</sup> International Conference on Enivronmental, Agricultural, Chemical and Biological Sciences – ICEACBS 2022" organized by Voice of Indian Concern for the Environment(VOICE) in Support of United Nations – SDGS during 22, 23, 26 January 2022.

# **Gene Sequence Submission (2014)**

A.Joseph Thatheyus, D. Ramya, **J. Stella Mary,** M. Andrew Pradeep **NCBI (National Centre for Biotechnology Information) Culture Database** 

Pseudomonas aeruginosa Strain ACZ01 – Acc.No: KM434772 Pseudomonas aeruginosa Strain ACZ02 – Acc.No: KJ667740 Providencia sp. Strain ACZ03 – Acc.No: KJ139978 Pseudomonas aeruginosa Strain ACZ04 – Acc.No: KJ667741 Morganella morganii Strain ACZ05 – Acc.No: KJ830754

#### **Conference/Seminar Presentations**

- Presented a paper titled "Synthesis and Characterization of silver nanoparticles from *Portieria hornemannii*" in the International Conference on "Novel Paradigms in Microbiology for Sustainable Future" Organised by the Department of Microbiology, The American College, Madurai, TamilNadu, India on 10 and 11 November 2022.
- Participated & Presented a paper titled "Screening for Antimicrobial, Antioxidant and Antidiabetic activity of *Plumbago zeylanica* Plant Extracts" in the VOICE-Virutual 3<sup>rd</sup>

- International Conference on Enivronmental, Agricultural, Chemical and Biological Sciences ICEACBS 2022" organized by Voice of Indian Concern for the Environment(VOICE) in Support of United Nations SDGS during 22, 23, 26 January 2022.
- Presented a paper titled "Isolation and Characterization of Probiotic Organism from Fresh Fruits and Vegetables" in the National Conference on Recent Trends in Biological Sciences (RTBS – 2020)" organized by PG and Research Dept of Zoology, The American College, Madurai on 3<sup>rd</sup> Feb 2020.
- Presented a paper titled "Synthesis of Silver Nanoparticles From Green Seaweed Caulerpa racemosa and Assessing its efficacy of antimicrobial, antioxidant and antidiabetic activity" in the International Symposium on "Advances in Coastal Research with Special Reference to Indo Pacific, AdCoRe IP 2019" held at National Centre for Coastal Research (NCCR), Chennai Funded by Ministry of Earth Sciences, Govt of India during 17th 19th December 2019.
- Presented a paper titled "Screening for antimicrobial and antioxidant activity of Brown Seaweeds *Turbinaria conoides*" in the International Symposium on "Advances in Coastal Research with Special Reference to Indo Pacific, AdCoRe IP 2019" held at National Centre for Coastal Research (NCCR), Chennai Funded by Ministry of Earth Sciences, Govt of India during 17th 19th December 2019.
- Presented a paper titled "Comparitive study on Antimicrobial and antioxidant activity of *Padina gymnospora* and *Padina tetrastomatica*" in the International Symposium on "Advances in Coastal Research with Special Reference to Indo Pacific, AdCoRe IP 2019" held at National Centre for Coastal Research (NCCR), Chennai Funded by Ministry of Earth Sciences, Govt of India during 17<sup>th</sup> 19<sup>th</sup> December 2019.
- "Role of Microbes in Conservation of Nature" presented as a poster in the 'National Conference Impacts of Pollution on Health and Restoration of Quality Environment Through Biotechnology Applications (EBAC-2018)' organized by PG and Research Dept of Zoology and Dept of Immunology & Microbiology, The American College, Madurai during 2 & 3 Feb 2018.
- "Antimicrobial potential of metallic nanoparticles synthesized from Seaweeds" presented as a paper in the 'National Seminar on Emerging Trends in Life Sciences' sponsored by TNSCST and organized by Jayaraj Annapackiam College for Women, Periyakulam during 9th January 2018.
- "Antimicrobial and antioxidant potential of metallic nanoparticles synthesized from Seaweeds" presented as a paper in the 'National Level Conference on Reaching the Unreached through Science and Technology for nation Building' organized by ISCA Coimbatore Chapter held at Kongunadu Arts and Science College, Coimbatore during 09th – 11th October 2017.
- "Green synthesis of silver Nanoparticles using Marine Green Seaweeds *Halimeda* macroloba and screening its antimicrobial, antioxidant and antidiabetic activity" presented as a paper in the 'National seminar on OCEANIA '17' organized by Sarah Tucker College, Tirunelyeli during 01 Sep 2017.
- "Screening for antioxidants and antimicrobial activity of Brown seaweed *Padina gymnospora*" presented as a paper in the National Seminar on Marine Resources, organized by Department of Zoology, The M.D.T.Hindu College, Tirunelveli in collaboration with Seaweed Research and Utilization Association, CAS in Marine Biology, Annamalai University during 3<sup>rd</sup> and 4<sup>th</sup> March 2016.
- "Silicon Nanostructures for Cancer diagnosis and therapy" presented as a poster in ICMR, DBT & INSA sponsored International Conference on cancer biology: Drug discovery and Novel Therapeutics held on 29th & 30th September 2016, organized by the Department of Zoology & Chemistry, Saiva Bhanu Kshatriya College, Aruppukottai.
- "Lipid Oxidation in Fish Oil and Mayonnaise Role of Seaweeds as Natural Antioxidants" presented as a poster in the International Conference on "New Horizons, Emerging

- Challenges and Recent paradigms in food mediated immunity and their role in human health and longevity", Organized at The American college, Madurai during  $31^{st}$  August and  $1^{st}$  September 2016.
- Functional food as an effective therapeutic agent –"To promote health and to prevent disease" presented as a poster in the International Conference on "Applications of Natural Products and Oppurunities Ahead ICAN 2016", organized by the School of Life Sciences, B.S. Abdur Rahman University, Vandalur, Chennai, (Assocoation with University of east London, UK)during 2nd & 3rd August 2016.
- "Brachytherapy An Effective Therapeutic Tool against Cancer" presented as a poster in the National Seminar on Cancer Biology: "Drug Discovery and Novel Therapeutices" organized at Saiva Bhanu Kshatriya College, Aruppukotai during 23<sup>rd</sup> October 2015.
- "Quantification of ROS and Its Association with Anemic Prevalence among Cancer patients With Different Type Of Cancers" presented as a poster in the National Seminar on "Role of Immunomodulators in Cancer Therapy" (RICT 2010) organized at The School of Bio-Technology, Karunya University, Coimbatore during October 11th 12th, 2010.
- "Biocontrol potential of Bacillus thuringiensis, Bacillus sphaericus and Vectobac 12AS Against the Larvae of Culex quinquefasciatus" presented as a paper in the
- National Seminar on "Conserve the Mother Earth-Need of the Hour", sponsored by UGC, held at Jayaraj Annapackiam College for Women, Periyakulam between 9th and 10th March 2009.
- "Effective Mechanism of Dendritic Cell Derived Exosomes Against Tumour Associated STn Antigenic Molecule" presented as a poster in the International Colloquium on "Emerging Biotechnologies in Agriculture, Animal Health And Productivity" (ICEB'09) organized at The School of Bio-Sciences, Alagappa University, Karaikudi during Febuary 22<sup>nd</sup> -26<sup>th</sup>, 2009.
- "A survey about the health awareness among the Paliyar tribal population of Kodaikanal" presented as a poster in the 48th Annual Conference of AMI organized by Association of Microbiologist of India at IIT Madras during December 2007.

#### **Conference/Workshop/Seminar/Training Participation**

- Participated in the one day workshop on Arts and Science of Methodical Scientific writing & Publishing in a high Impact journal conducted by IQAC and office of the Dean Research, The American College, Madurai on 06 March 2023.
- Participated in the State level seminar on Intellectual Property Rights organized by BCA Department of The American College, Madurai on 03 February 2023.
- Attended Online Workshop in Bioinformatics | New Frontier on Life Sciences Horizon, organized by BDGLIFESCEINCES (OPC) PVT. LTD., INDIA on 15 March 2022.
- Participated in the International Virtual Conference on "Innovation in Biomedical Science Research" organized by PG & Research Department of Zoology, Holy Cross College, Tiruchirappalli on 17 March 2021.
- Participated in the TNSCST sponsored National Virtual Conference on "Human Microbiome at the Interface of health and disease" organized by PG Department of Microbiology, The American College, Madurai on 2 and 3 November 2020.
- Participated in the "National Conference on Wildlife: Threats and Conservation, organized by PG and Research Dept of Zoology, The American College, Madurai, on 18<sup>th</sup> Oct 2019.
- "Entrepreneurship Development Programme in Sericulture" organized by Central Silk Board and UG Department of Zoology, The American College.
- Attended "One Day Workshop on Curriculum Development" held in PG & Research Department of Zoology at The American College, Madurai on 21 June 2019.
- Attended "Science Academic" Lecture Workshop on Recent Trends in Modern Biology held in PG & Research Department of Zoology at The American College, Madurai on 23 to 25 January 2018.

- Undergone hands on workshop programme in "*DNA barcoding*", organized by Department of Immunology and Microbiology, the American College, Madurai, powered by EXONNS technologies, Chennai during 11<sup>th</sup> May 13<sup>th</sup> May, 2017.
- Participated in the Academies' Lecture Workshop on "Recent Trends in Biological Sciences" organized by Postgraduate & Research Department of Zoology, The American College, Madurai on 19th & 21st, January 2017.
- Participated in Indian Association of Gastroenterology ISG Tamilnadu Chapter Mid Term Conference held on September 24<sup>th</sup> -25<sup>th</sup> 2016.
- Participated in the All India Association for Christian Higher Education' (AIACHE)
   Golden jubilee Grand Finale celebrations held at The American College, Madurai, Tamil
   Nadu from 7th to 11th October 2016.
- DBT sponsored National Conference on "Community Microbial Consortia and the Human Holobiont Implications of Yet- Unculturable Microorganisms in Systemic health, Disease & Personalized Medicine, organized by The American College, Madurai, during 7 and 8 December, 2015.
- Immunology Today in the Commemoration of the "World Immunology Day 2015" organized by Aravind Medical Research Foundation, Madurai, TamilNadu, India, on 29<sup>th</sup> April, 2015.
- 4th Conference on Medical Arthropodology on "Advancement in Vector and Vector borne disease Control researches: Lab to field" organized by Centre for Research in Medical Entomology (ICMR), Madurai, TamilNadu, India, during 20 21 December, 2010.
- Undergone a training programme in the "National JALMA Institute for Leprosy and Other Mycobacterial Diseases" [ICMR], TajGanj, Agra for a period of 15 days from 20<sup>th</sup> June 5<sup>th</sup> July, 2009.
- Training Programme in the "Division of Cancer Research, Regional Cancer Centre," Thiruvanathapuram for a period of 15 days from 5<sup>th</sup> 19<sup>th</sup> May, 2008.
- Second Conference on Medical Arthropodology on "Climate change and Vector borne diseases" organized by Centre for Research in Medical Entomology (ICMR), Madurai, TamilNadu, India in Collaboration with Entomology Academy of India, during 15-16 December, 2008.
- International Conference on "Genetic and Molecular Diagnosis in Modern Medicine" organized by Kamineni Education Society, Hyderabad, at MCR HRD institute Hyderabad during January 2008.

#### **Online Courses Attended**

- Completed Three Day Online Course on "Apiculture" organized by Department of Zoology, Ayya Nadar Janaki Ammal College, Sivakasi from 13<sup>th</sup> -15<sup>th</sup> May 2020, with a passing score of 90%.
- Completed Three Day Online Course on "Vermiculture and Vermicompost **Technology**" organized by Arulmigu Palani Andavar College for Women, Palani in association with Dr.N.NT.Research Foundation during 11<sup>th</sup> 13<sup>th</sup> May 2020.

#### Webinars/Online FDP Attended

- Participated in the National Webinar on Career Paths in Life Sciences organized by the Department of Biotechnology, The American College, Madurai on 01 November 2021.
- Participated in the FDP on Preparing E-Content for MOOCs on SWAYAM, organized by St. Joseph's College, Tiruchirapalli on 23 October 2021.
- Participated in the International Webinar on "PROMOTING IKIGAI TO ARISE & SHINE" organized by The Ladies Club of The American College, Madurai on 29th July 2021.
- Participated in the webinar titled 'Covid-19 Associated Mucormycosis' organized by the PG & Research Department of Biotechnology, Women's Christian College, Chennai on 16th July, 2021.

- Participated in the National Webinar on "A Pandemic year for Women: What are we learning?" organized by The Ladies Club of The American College, Madurai on 30th June 2021.
- Participated in the National Level Webinar on "Corona Virus and Wild Life Trade" organized by Pope's Eco Club and PG Department of Zoology, Pope's College, Thoothukudi on 09 June 2021.
- Participated in the NAAC sponsored National Level Webinar on "Orientation Programme for Re-Accreditation of Autonomous Colleges" organized by The National College, Bangalore on 03 June 2021.
- Participated in the National Webinar 2021 entitled "Biodiversity: Life Insurance for Our Changing World" organised by the Eco-Club of Mannar Thirumalai Naicker College (Autonomous), Pasumalai, Madurai on 26th May2021.
- Participated in the workshop on "How to design a questionnaire in research" organized by IQAC and PG & Research Department of Commerce on 24 May 2021.
- National Webinar on celebrating "World Turtle Day" on the topic "Learning from advocates of the ocean: Sea-turtles and their role in the health of the coast and high seas" Organized by Nature Club of Rajapalayam Rajus' College and Wildlife Association of Rajapalayam (WAR) on 23 May, 2021
- Participated in National Level Webinar on celebrating "World Bee Day" on the topic "Declining Bees:Due to Our Ignorance" Organized by Nature Club of Rajapalayam Rajus' College and Wildlife Association of Rajapalayam (WAR) on 20th May, 2021.
- Participated in the National level Webinar on "Intellectual Property Rights (IPR)" organized by PG Department of Zoology, Kamaraj College, Thoothukudi on 19 May 2021.
- Participated in National Webinar on "Criteria 6: Governance and Leadership in an Educational Institution" organized by IQAC Cell of Mahatma Education Society's Pillai College of Arts, Commerce & Science (PCACS) Autonomous, Mumbai on 1st April, 2021.
- Participated in National Level Webinar on "Conservation of Mangrove Ecology" on celebrating "World Forest Day" Organized by Nature Club of Rajapalayam Rajus' College on 22nd March, 2021.
- Participated in the International Webinar on "The Power to change the World" organized by Women's Forum, The American College, Madurai held on 08 March 2021.
- Participated in the Webinar on "50th Anniversary of Ramsar Convention" organized by department of Microbiology, Sourashtra College, Madurai on 02 February 2021.
- Participated in the Webinar on "Lead the Life in Style" organized by Women's Forum, The American College, Madurai on held 01 February 2021.
- Participated in the Webinar on "Organic Foods and Healthy Life Style" organized by the Bachelor of Vocation in Beauty Wellness and Health Care of Jayaraj Annapackiam College for Women, Periyakulam on 10 June 2020.
- Participated in the Webinar on "Women at Risk Blossom" organized by Ladies Club of The American College, Madurai on 09 June 2020.
- Participated in the Webinar on "Design Thinking Tools" organized by District Institute of Education and Training, Uthamacholapuram, Salem on 07 June 2020.
- Participated in online Faculty Development Programme on "Teaching for Transformation and Excellence in Post Covid Era" organized by PG and Research Department of Commerce, The American College, Madurai on 06 June 2020.
- Participated in the Webinar on "We and Our Environment" organized by Department of Tamil, SLS. MAVMM Ayira Vaisyar College, Madurai on 13 May 2020.
- Participated in the International Webinar on "Brief Perspectives of Nanotechnology Biosynthesis and Bio-application of Nanoparticles" organized by Jayaraj Annapackiam College for Women, Periyakulam during 27<sup>th</sup> – 29<sup>th</sup> May 2020.
- Participated in the International Webinar on "Biodiversity" organized by PG and Research Department of Zoology, The American College, Madurai on 22 May 2020.

- Participated in the Webinar organized by Ladies Club of The American College, Madurai on 27 May 2020.
- Participated in the Webinar on "Biodiversity" organized by ECO Club, Mannar Thirumalai Naicker College, Madurai on 22 May 2020.
- Participated in the Webinar on "Cancer Care in Covid -19 Era" organized by the Department of Microbiology and Biotechnology, NMS S. Vellachamy Nadar College, Madurai on 28 May 2020.
- Participated in the Webinar on "Virtual Classroom management using Microsoft Teams" an online training programme organized by Department of Computer Science and Engineering, Lakireddy Bali Reddy College of Engineering, Andhra Pradesh on 11 May 2020.
- Participated in the Webinar on "Art of Achieving Teaching Excellence in Digital Era" organized by Sakthi Institute of Information and Management Studies, Pollachi on 04 May 2020.
- Participated in the Four Day online series on "Marine Ecology and Climate Change MECC 2020" organized by the Centre for Climate change studies, Sathyabama Institute of Science and Technology, Chennai in association with Tamil Nadu science forum, during 6th – 9th May 2020.
- Participated in the Webinar on "Teacher to education leader" organized by Colombo Plan Staff College on 23 April 2020.
- Online Faculty Development Programme on Google Meet 101 organized by VET Institute of Arts and Science, Erode on 8 May 2020.