

PROFILE

Name : **MRS.F. SHERIN REBECCA**
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ACADEMIC QUALIFICATION

COURSE	SUBJECT	INSTITUTION	UNIVERSITY	YEAR OF PASSING	% OF MARKS
MPhil	Biotechnology	St. Josephs College, Trichy	Bharathidasan University, Trichy	2009	86
SLET	Life Sciences	-	Mother Teresa Womens University, Kodaikanal	2018	-
M.Sc	Biotechnology	Holy cross college, Trichy	Bharathidasan University, Trichy	2011	78
B.Sc	Biotechnology	Lady Doak College, Madurai	Madurai Kamaraj University	2006	79

AREA OF SPECIALIZATION/INTEREST : Cancer Biology

RESEARCH PAPER PUBLICATIONS:

- **Phytochemical and Antimicrobial Screening of *Mollugo Cerviana*(L). Ser. in Methanolic Extract** International Journal of Pharmaceutical Research and Applications Volume 6, Issue 4 July-Aug 2021, pp: 548-553
www.ijprajournal.com ISSN: 2249-7781
- **Molecular docking analysis of bioactive compounds from *Mollugo cerviana* (L.) SER with DHFR for antifungal activity**, BIOINFORMATION, Nov 30 2021, Vol 17(11) PP :944-948, ISSN 0973-2063
- **Antimicrobial evaluation and molecular docking studies of the combined ethanolic extract of *Mollugo Cerviana* and *Mukia Maderspatana*** BIOINFORMATION, 2023, Vol 19 (2) PP :190 -195
ISSN 0973-2063
- **Isolation and Characterization of Dye Decolorizing Bacteria from The Textile Dye Effluents**, JOURNAL OF ADVANCED ZOOLOGY Volume 44 Issue 04 Year 2023 Page 1069:1075, ISSN: 0253-7214
- **Assessment of Anticancer activity of *Mollugo cerviana* on Hepatocellular carcinoma by *invitro* and *insilico* analysis”** in JAC Journal of Science, Humanities and Management, Vol 11, No 1, ISSN: 2347-9868, Page No – 63-73.

PAPER PRESENTATIONS:

- Presented a paper on “**Evaluation of anticancer activity of ethanolic extract of *Mollugo cerviana* (L) on Hep G2 Hepatocellular carcinoma cell lines**” in International Virtual Conference on Biological Innovations & Computational Exploration for Pandemic Challenges (BICPAC’22) organized by the Department of Biotechnology & Bioinformatics, Bishop Heber College (Autonomous), Tiruchirappalli on 24th & 25th February, 2022. ISBN – 9789356206199
- Presented a paper entitled “**Characterization of plant growth promoting Rhizobacteria and their effect on seed germination and Plant growth**” at the National Seminar on “**INTERDISCIPLINARY TRENDS IN LIFE SCIENCES**” organized by PG and Research Centre of Zoology, Jayaraj Annapackiam College for Women, Periyakulam on 25.09.2024.
- Presented a Research Paper on “**Butterflies as Indicators of Climate Change – Strategic Mitigation and Adaptation Initiatives in College Environment**” in the One Day National Conference on “**Innovative Approaches to Quality Assurance in Higher Education for**

Sustainable Futures” organized by the IQAC, Jayaraj Annapackiam College for Women Periyakulam on 09.01.2025.

BOOKS PUBLISHED

- **PRINCIPLES OF GENETIC ENGINEERING** – Alpha International Publications ISBN: 978-93-5762-001-7
- **INTRODUCTION TO BIOINFORMATICS** - Alpha International Publications ISBN: 978-93-5762-236-3
- **FUNDAMENTALS OF ZOOLOGY”** - ESN Publications - ISBN: 9789390 188888
- **“FERMENTED FOODS AND BEVERAGES”** - RG International Publications. ISBN: 978 – 93-48151-40-7
- **BIOINSTRUMENTATION TECHNIQUES** – Authors Click Publishing ISBN: 978 -93 -6665 -680 -9

PATENTS PUBLISHED:

- “A METHOD OF PREPARATION OF AN EDIBLE PRODUCT MUSHROOM MARSHMELLOW” Patent Number: 202241099161A: Ordinary patent of Journal No. 28/2022 on 15th July, 2022.
- “A KIND OF MUSHROOM FORTIFIED CAKE PREPARATION METHOD THEREOF” Patent Number: 202241003519A: Ordinary patent of Journal No. 05/2022 on 4th February, 2022.
- Design patent entitled “MICROBIAL LOAD DETECTION DEVICE FOR WATER QUALITY ASSESSMENT” under Patent Design Number: 424235-001 in October 2024.

FACULTY INDUCTION PROGRAMME:

- Participated in the UGC Sponsored Faculty Induction Programme conducted by UGC Malavya Mission Teacher Training Centre, Madurai Kamaraj University from 15.11.2023 – 14.12.2023.

PROGRAMMES ORGANISED

- **COORDINATOR** for Training Programme on Mushroom Cultivation and its Value addition” organized by the PG and Research Centre of Zoology, Seed Division, Department of Science and Technology and Tamil Nadu State Council for Science and Technology, Chennai in JANUARY 2025.
- Organizing Secretary for the Intercollegiate Event “JAC BIOS CARNIVAL” on the theme “Sustainable Pathways for a thriving Earth” on 20th January 2026.

FACULTY DEVELOPMENT PROGRAMME:

- Participated in the national online faculty development programme on ‘Advances in Structural and Computational Biology’ organised by the Department of Life Sciences, Kristu Jayanti College (Autonomous), Bengaluru under the aegis of the DBT star college scheme on 3rd September 2021.
- Participated in the Faculty Development Programme on “Applications of ICT Tools in Education” organized by the IQAC of Dr. Umayal Ramanathan College for Women on 25th September 2021.
- Attended five-day training in the National Level Faculty Development Program on “Life Science Teaching Towards Product Development: A Transdisciplinary Perspective” organized by PG & Research Department of Biotechnology & Bioinformatics, Holy cross College held from 11th to 15th October 2021.
- Participated in the Faculty Development Program (Online) on “The Nuances of Scientific Writing and Publishing” organized by All India Association for Christian Higher Education, New Delhi & Madras Christian College (Autonomous), Chennai from 11th to 19th July, 2022.
- Participated in an International faculty development Programme on “Soft skills for capacity Building” conducted by JASS Academy, St. Joseph’s College, Tiruchirappalli from 25th September to 29th September
- Participated in an Online Faculty development Programme on “Computer Aided Drug Design and Systems Biology” organized by PG and Research Department of Biotechnology and Bioinformatics, Holy Cross College Trichy from 18th Dec – 22nd Dec.
- Participated in the one-week National level Faculty Development Programme on “Curriculum, Research and Innovation for Academic excellence” organized by PG and Research Department of Botany, Jamal Mohammed College, Trichy from 1st February to 7th February
- Participated in the four-days online session on “Best Practices and Institutional Distinctiveness” “organized by AIACHE and St. Josephs College, Trichy, from 4th to 7th March 2024.
- Participated in the ten-day online Faculty Development Programme on “The Art of Research and Publishing in Indexed Journals” organized by Madras Christian

College, Chennai from 13th May to 22nd May 2024.

- Attended the four weeks International online Faculty Development Programme on “BIOANALYTICAL TECHNIQUES -II” organized by Sacred Heart College, Tirupattur in association with Biotechnology Society of Nepal and Western Rio Janeiro State University (UEZO), Rio de Janeiro, Brazil from 09.09.2024 to 08.10.2024.
- Completed the Five-day Faculty development Programme on “AI Frontiers: Innovations and Emerging Paradigms” organized by the PG and Research department of Biotechnology in association with the Internal Quality Assurance Cell, Women’s Christian College, Chennai from 22.09.2025 to 26.09.2025

SHORT TERM COURSES:

- Completed the NEP 2020 Orientation & Sensitization Programme under the Malaviya Mission Teacher Training Programme (MM-TTP) of UGC Organized by Malaviya Mission Teacher Training Centre, Madurai Kamaraj University, Madurai, from 18th July to 26th July 2024.
- Seven Days International Online Certificate Course on “CHROMATOGRAPHY – AN OVERVIEW (PHASE -I)” organized by the Department of Microbiology, Sacred Heart College, Tirupattur, India in association with Biotechnology Society of Nepal and Laboratory of Chemical and Biological Analysis, Western Rio Janeiro State University, Rio de Janeiro, Brazil from 04.11.2024 to 10.11.2024
- Participated in the seven days National Level Short Term Programme (Online Mode) on “Reimagining Classrooms : Innovative Pedagogies for Engaged and Outcome based Learning” organized by PG Department of Computer Science and Department of Computer Science, Teresian College, Mysore from 05.11.2025 to 12.12.2025.
- Completed the NEP Orientation and Sensitization programme under Malaviya Mission Teacher Training Programme (MM -TTP) of University Grants Commission (UGC) organized by The Gandhigram Rural Institute – DTBU, Gandhigram from 19.01.2026 to 27.01.2026.

REVIEWER IN JOURNALS

- Received the certificate of Excellence in reviewing from Annual Research & Review in Biology (24 Nov 2023). (Indexing: Ebsco, Proquest, Index Copernicus, Google Scholar, NAAS - 4.79 (2020))

SEMINARS and WEBINARS ATTENDED:

- Participated in the International webinar on “Recent Developments in genetics/genomic medicine” organized by PG and Research Department of Botany, Pachaiyappa’s College, Chennai on 7th August 2021.
- Participated in the International webinar on “SUSTAINABLE LIVING – THE WAY FORWARD FOR EARTH’S SAKE” organized by the Department of Advanced Zoology, Women’s Christian College, Chennai on 25th August 2021.
- Participated in the International webinar on “Recent trends in Lifesciences” organized by the PG and Research Centre of Zoology, Jayaraj Annapackiam College for Women, Periyakulam on 1st September 2021
- Attended eight-day sessions on “International training on ethical paraphrasing and Identification of Q1, Q2, Q3, Q4 Scopus Journals” organized by World Association of Developmental Studies, Eudoxia Research Centre from 3rd to 11th September 2021.
- Attended an one day Hands – on Training on ‘Mushroom Fortified Bakery Products Preparation’ organized by PG and Research Centre of Zoology, Start up Programme –
Mushroom Culture and Institutional Innovation Council (IIC), Jayaraj Annapackiam College for Women (Autonomous), Periyakulam on 15th December, 2021.
- Attended an International seminar on “Advancements in Life Sciences and its Industrial Applications” organized by the PG & Research Department of Biotechnology and Bioinformatics, Holy Cross College (Autonomous), Trichy in Collaboration with BIORKS held on 18th December, 2021.
- Participated in the National Virtual Training on “DNA Barcoding” organized by the Department of Zoology & Research Centre, Lady Doak College, Madurai on 11th and 12th January, 2022.
- Participated in the webinar entitled “Awareness on Intellectual Property Rights” organized by PG and Research Centre of Zoology, Start Up Programmes and Institution’s Innovation Council (IIC), Jayaraj Annapackiam College for Women (Autonomous), Periyakulam on 05th May, 2022.
- Participated in the webinar on "Stem Cell Biology" organized by PG Department

of Zoology, Fatima College (Autonomous), Madurai on 09th May, 2022.

- Participated in the international seminar on “Emerging Trends and Practices in Environmental Conservation” organized by Raj Rishi Govt. Autonomous College, Alwar, Rajasthan, India on 05th and 06th June, 2022.
- Participated in the International Nutritional Webinar 2k22 organized by the Department of Biochemistry & IQAC, St. Joseph’s College for Women (A), Gnanapuram, Visakhapatnam from 1st to 5th September, 2022.
- Participated in IP Awareness/Training Program under National Intellectual Property Awareness Mission organized by PG and Research Centre of Zoology, Jayaraj Annapackiam College for Women (Autonomous), Periyakulam in collaboration with St. Joseph’s College for Women, Alappuzha, Kerala and Inter University Centre for IPR Studies, CUSAT, Kochi, Kerala on 20th September, 2022.
- Participated in IP Awareness/Training Program under National Intellectual Property Awareness Mission on December 16th 2022.
- Participated in the three-day workshop on “Organic Farming and Bio Dynamic Composting” from 19th to 21st December, 2022 organized by PG and Research Centre of Zoology in collaboration with Eco club, Waste water management and Green Campus, Institution Innovation Council (IIC), Jayaraj Annapackiam College for Women (Autonomous), Periyakulam and Naandhi Foundation, Mahindra Institution, Guindy, Chennai.
 - Participated in National Level online workshop on “Chat GPT for Academics” organized by Department of Computer Science, St. Joseph’s College, Tiruchirappalli on 21st June, 2023.
 - Attended a four days online session on “Best Practices and Institutional Distinctiveness” organized by AIACHEE in association with St Joseph’s College, Trichy from 4th to 7th March 2024.
 - Attended the webinar on “Preparation for NAAC Online Peer Team Visit” organized by IQAC Clusters India on 03.05.2025.
 - Attended the International Conference on “Innovations in Biomolecular Sciences: Integrating Technology and Discovery” organized by Lady Doak college, Madurai in collaboration with Universitas Kristen Maranatha, Indonesia from 05.08.2025 to 09.08.2025.

- Participated in the International webinar on “Multidisciplinary Approaches in Research for Sustainable Development” jointly organized by the PG and Research Centre of Zoology & Advanced Zoology and Biotechnology, Jayaraj Annapackiam college for Women, Periyakulam on 12.12.2025.

OUTREACH PROGRAMMES ATTENDED:

- Participated in the Synchronized Bird Census -2024 (Phase I – Wetland Birds) conducted by Srivilliputhur Megamalai Tiger Reserve, Megamalai Division, Theni organized by Tamil Nadu Forest Department on 27th and 28th January 2024.
- Participated in the Great Backyard Bird Count (GBBC – 2024) organized by E Bird, India on 16th February 2024.
- Participated in the Great Backyard Bird Count (GBBC – 2025) organized by E-Bird, India on 17.02.2025.
- Participated in the “Workshop on Curriculum Development and Assessment Methodologies” conducted by the Tamil Nadu State Council for Higher Education (TANSCH) at the American College, Madurai on 24.03.2026.

RESOURCE PERSONS AND EXAMINERS

- Held a Practical session on ‘Mushroom Fortified Bakery Products Preparation’ organized by PG and Research Centre of Zoology, Start Up Programme – Mushroom Culture and Institutional Innovation Council (IIC), Jayaraj Annapackiam College for Women (Autonomous), Periyakulam on 15th December, 2021.
- Served as a Resource Person in “Mushroom Cultivation and Training” Programme organized by PG and Research Centre of Zoology, Jayaraj Annapackiam College for Women (Autonomous), Periyakulam in collaboration with Tamil Nadu State Council for Science and Technology (TNSCST), on 12th August, 2022.
- Contributed as a resource person in the “Inservice Training to Science Teachers” catalyzed and supported by “Tamil Nadu State Council for Science and Technology” Chennai.
- Served as a subject expert in the Board of studies meeting in the Department of Biotechnology and Bioinformatics held at Holy Cross College, Trichy on 30th October 2023.
- Served as a resource person in the NSS Camp on the topic “காளான் வளர்ப்பு

பயிற்சி”organized by the Unit 7 of NSS ON 19.11.2024.

- Served as an External Examiner for the conduct of UG – Practical Examination in the Department of Zoology, Hajee karutha Rowther Howdia college, Uthamapalayam, Theni dt on 17.03.2025 & 18.03.2025.
- Served as a subject expert in Biotechnology at the Department of Biotechnology, Yadava College, Madurai on 22.12.2025.
- Served as a resource person for the two-day Hands-on Training Programme on “Instrumentation Techniques and Data Analysis” organized by the Consultancy Cell in association with the PG and Research Centre of Physics and PG and Research Center of Chemistry on 18.02.2026 and 19.02.2026.
- Served as a question paper setter for the B.SC Semester Examinations at AVC College, Mayiladuthurai in February 2026.