

## Profile



**Name : DR. (MRS.) P. SHANTHI**

**Designation: DEAN, SCHOOL OF LIFE SCIENCES, ASSOCIATE PROFESSOR**

**Gender : FEMALE**

**Department: BOTANY**

**Educational Qualification: M.Sc., M.Phil., Ph.D.**

S. No.	Name of the Degree	Subject	Year of Passing	Percentage of marks obtained	Name of the College / University
1.	B.Sc	Botany	1997	69	Holy Cross College (Autonomous), Bharathidasan University.
2.	M.Sc.	Botany	1999	73	Holy Cross College (Autonomous), Bharathidasan University.
3.	M.Phil.	Botany	2001	80	St. Joseph's College (Autonomous), Bharathidasan University.
4.	Ph.D.	Botany	2004		Holy Cross College (Autonomous), Bharathidasan University.

**Aided**  **Shift I**

Teaching Experience at Holy Cross College: 21 Years

Research Experience - 23

**Total Teaching Experience: 21 Years**

### Positions held: (14)

1. Dean, School of Life Sciences – 2022 – 2023 onwards
2. Dean of Extension – 2021 - 2022
3. Co-Ordinator of DST – FIST – 2021 onwards
4. Head of the Department of Botany – 2018 - 2021
5. NSS coordinator – 2017 - 2020

6. Convenor for the International Symposium on “Microbiome & Transformative Biology: Exploring the Future of Life Sciences” organized by the PG and Research, Department of Botany, Holy Cross College (Autonomous), Trichy on 30<sup>th</sup> August 2024.
7. Organizing Secretary for one day Conference on “Challenges and Opportunities in Life Sciences” organized by the School of Life Sciences, Holy Cross College (Autonomous), Trichy on 15<sup>th</sup> February 2023.
8. Organizing Secretary for National Seminar on “Phytomedicine and Nanomaterials in Plant Sciences” organized by the PG and Research, Department of Botany, Holy Cross College (Autonomous), Trichy on 15<sup>th</sup> & 16<sup>th</sup> December 2022.
9. Organizing secretary for two day state level workshop on - Plant Tissue Culture, *Agrobacterium* Mediated Transformation in Plants And Nanotechnology. PG and Research Dept. of Botany, Holy Cross College(Autonomous), Tiruchirappalli on 28<sup>th</sup> & 29<sup>th</sup> August, 2018.
10. Organizing Secretary in National Seminar on “Scientific Research and Education in Today’s Scenario” organized by the PG and Research, Department of Botany, Holy Cross College (Autonomous), Trichy on 13<sup>th</sup> & 14<sup>th</sup> February 2019.
11. Organizing Secretary in one day outdoor Seminar on “Herbal bio-entrepreneurship” on 23.07.2019 at K. S. Varier’s Ashtanga Ayurvedics (Pvt.), Thayanur, Trichy.
12. Organizing Secretary in a State level Two day workshop on “Biochemical characterization of Bacterial pathogens, antibacterial studies and permanent slide preparation” on 21<sup>st</sup> and 22<sup>nd</sup> august 2019, at PG and Research Dept. of Botany, Holy Cross College (Autonomous), Trichy.
13. Organized a two day workshop on “Nursery Techniques” on 9<sup>th</sup> & 10<sup>th</sup> January 2020, at PG and Research Dept. of Botany, Holy Cross College (Autonomous), Trichy.
14. Organizing Secretary in National Seminar on “Bio Innovation” organized by the PG and Research, Department of Botany, Holy Cross College (Autonomous), Trichy on 10<sup>th</sup> March 2019.

### **Subject Expert**

1. Subject expert member (Vice-Chancellor’s Nominee) in the interview Panel for the staff selection of St. Mary’s College (Autonomous), Thoothukudi on 26.10.2023.
2. Subject expert to St. Joseph’s College (Autonomous), Irinjalakuda, Thrissur, Kerala India on 20<sup>th</sup> & 21<sup>st</sup> October 2022.
3. Vice Chancellor Nominee for Board of studies meeting in Bishop Heber College, Trichy - 2023-2024 onwards.
4. Subject expert to St. Francis De Sales College, Seminary hills, Nagpur on 28<sup>th</sup> & 29<sup>th</sup> January 2023.

#### **Awards Received (4)**

1. Best Teacher Award, Global Gyaan Academy, Bangalur, Karnataka on 8<sup>th</sup> September 2024.
2. Best NSS programme officer from Bharathidasan University, Trichy, Tamil Nadu, 2018-2019.
3. Life-Time Achievement Award, Nature Science Foundation, Coimbatore, Tamil Nadu, 20.11.2021. (2021-2022).
4. Fellow Member of World Researchers Associations, No. FM/2021/0009, Indore, India. 2021 onwards.

#### **Details of membership in professional bodies /journals, editors, consultancy, resource person**

##### **❖ Membership (7)**

1. Member of Board of Studies in the Department of Botany, St. Joseph's College (Autonomous), Irinjalakuda, Kerala – 2023-2024 onwards.
2. Board of studies member in Bishop Heber College, Trichy - 2023-2024 onwards.
3. Fellow Member of World Researchers Associations, No. FM/2021/0009, Indore, India. 2021 onwards.
4. Board of studies member in Seethalakshmi Ramasamy College, Trichy - 2021
5. Editorial Board Member in Journal of Academia & Industrial Research from 2020 – onwards
6. Doctoral Committee Member in Jamal Mohamed College ( Autonomous), Trichy.
7. Doctoral Committee Member in St. Joseph's College ( Autonomous), Trichy.

##### **❖ Sequence submitted to NCBI (5)**

1. Uthayakumar, T. S. and **Periyasamy, S.** 2020 (August). Identification of ribulose-1,5-bisphosphate carboxylase/oxygenase large subunit (Rubisco rbcL) gene in *Volkameria inermis*  
**LOCUS:** MN901637 661 bp DNA linear PLN 09-AUG-2020  
**DEFINITION:** *Volkameria inermis* ribulose-1,5-bisphosphate carboxylase/oxygenase large subunit (rbcL) gene, partial cds; chloroplast.  
**ACCESSION** MN901637  
**VERSION** MN901637.1
2. Uthayakumar, T.S. and **Periyasamy, S.**  
**LOCUS:** OQ790049 540 bp DNA linear PLN 02-AUG-2023  
**DEFINITION:** *Sphaeranthus indicus* ribulose-1,5-bisphosphate carboxylase/oxygenase large subunit (rbcL) gene, partial cds; chloroplast.  
**ACCESSION:** OQ790049  
**VERSION:** OQ790049.1
3. Stanely, J and **Periyasamy, S.** 2024 (May). *Syzygium jambos* voucher RHT: ribulose-1,5-bisphosphate carboxylase/oxygenase large subunit (rbcL) mRNA, partial cds: chloroplast.  
**LOCUS:** PP754605 684 bp mRNA linear PLN 08-May-2024

**DEFINITION:** *Syzygium jambos* voucher RHT: ribulose-1,5-bisphosphate carboxylase/oxygenase large subunit (rbcL) mRNA, partial cds: chloroplast.

**ACCESSION:** PP754605

**VERSION:** PP754605.1

4. **Periyasamy,S.**, Muralikrishnan,S., Stanley,J. and Krishnan,P.

**LOCUS:** PQ066002 285 bp DNA linear PLN 31-JUL-2024

**DEFINITION:** *Acmella calva* voucher RHT:3002 ribulose-1,5-bisphosphate carboxylase/oxygenase large subunit (rbcL) gene, partial cds; chloroplast.

**ACCESSION:** PQ066002

**VERSION:** PQ066002.1

5. Sankar,A. and **Periyasamy,S.**

**LOCUS:** PQ069279 715 bp DNA linear PLN 31-JUL-2024

**DEFINITION:** *Gynochthodes umbellata* voucher RHT:2936 ribulose-1,5-bisphosphate carboxylase/oxygenase large subunit (rbcL) gene, partial cds; chloroplast.

**ACCESSION:** PQ069279

**VERSION:** PQ069279.1

❖ **Online Course:**

NPTEL online course on “Genetic Engineering: Theory & Application” - 12 Week course - July to October 2022.- Credits - 3/4.

❖ **Resource person (17)**

1. Resource person for the Trainers Training Session entitled “Mapping Success: A Comprehensive Approach to CO-PO Alignment and Attainment” held on 16<sup>th</sup> September 2024 at Dhanalakshmi Srinivasan College of Arts and Science for Women (Autonomous), Perambalur.
2. Resource person for the National seminar on Climate Change and its Impact on Biodiversity on the topic “Conservation of biodiversity of high valued medicinal plants through plant tissue culture” on 5<sup>th</sup> December 2023, conducted by the Post graduate Department of Botany, St. Joseph’s College (Autonomous), Irinjalakuda, Kerala.
3. Resource person for the Faculty Development Program (FDP) on “Curriculum Framework – Design, Develop and Deploy” titled “Adapt to Adopt” conducted by the Internal Quality Assurance Cell (IQAC) at Justice Basheer Ahmed Sayeed College for Women (Autonomous), Chennai on 31<sup>st</sup> October and 1<sup>st</sup> November 2023.
4. Resource person for delivering a lecture on “A Green Environment for a Sustainable Living” in commemoration of “World Water Day” on 21<sup>st</sup> March 2023, at Saranathan College of Engineering - Department of Civil Engineering, Trichy.
5. Chair person in International Conference on “innovations and Applications in Biomedical and Health Sciences”, conducted by PG & Research Department of Biotechnology and Bioinformatics, Holy Cross College (Autonomous), Trichy - 2, India in collaboration with Department of Anatomy, Yong Loo Lin School of Medicine, National University of Singapore & Department of Endocrinology, Dr. ALM PG IBMS, university of Madras, Taramani Campus, Chennai During 23 – 25, January 2023.

6. Resource person for delivering a lecture on “Bioprospecting of Medicinal Plants” under star college scheme in Department of Botany, Jamal Mohamed College, Trichy on 10.03.2022.
7. Resource person for orientation to the NSS volunteers on “Leadership skills and Personality Development” NSS UNIT, Holy Cross College, Trichy on 01.03.2022.
8. Chief Guest for the Community programme on “AIDS awareness “ conducted by RED RIBBON Club, Bishop Heber College, Trichy on 02.12.2019.
9. Resource person for the Annual day of St. Gabriel’s Matric higher secondary school, Pettavaithalai, 5<sup>th</sup> December 2019.
10. Chair person in National Seminar on “Microbes in Women Health” organized by Department of Microbiology, Bharathidasan University, Trichy and Trichy Obstetric and Gynaecological Society (TRIOGS) on 11<sup>th</sup> and 12<sup>th</sup> July 2019.
11. Resource person for two day Workshop on “Techniques in phytochemical analysis” organized under College with Potential for Excellence Scheme at Holy Cross College (Autonomous) on 31<sup>st</sup> January and 1<sup>st</sup> February, 2019.
12. Chair Person in International Conference on Networking, Research and Innovation in Higher education for a sustainable society- Challenges and Channels- (ICNRI 2018) conducted by Holy Cross College(Autonomous), Tiruchirappalli on 25<sup>th</sup> – 27<sup>th</sup> July, 2018.
13. Resource person in NSS special camp skill based training on “Herbal oil preparation to the Punganur village people” on 20.11.2017, trichy.
14. Resource person to Holy Cross College of Education, Trichy & gave a lecture on “Wild Life Conservation”on 06.10.2015.
15. Resource person in the workshop on “Plant Biology For PG Assistants” conducted by the Department of Botany from 22.08.2013 to 23.08.2013.
16. Resource person for school teachers conducted by Tamil Nadu Government.
17. Gave a lecture to PG Biotechnology students on plant tissue culture techniques, HCC, Trichy.

**E-lessons developed:**

S.No	Title of e-lessons
1.	Agrobacterium mediated gene transfer
2.	PCR
3.	Mechanism of Enzyme action
4.	Primary structure of normal dicot stem

5.	Organogenesis (Plant Tissue culture)
6.	Apocynaceae
7.	Thallus structure of Fungi – 30.09.2020
8.	Nutrition of Fungi - 18.10.2023

## Research:

### i. Projects Undertaken:

S. No.	Category Major/ Minor	Research Area	Funding Agency	Sanctioned Amount (Rs.)	Period
1.	Major	Plant Biotechnology & Phytochemistry.	UGC	5,74,902.00	2008-2011
2	DST-FIST Project	Multidisciplinary	DST	58,00,000/	2022-2027

### ii. M.Phil. & Ph.D Produced

M.Phil. Produced – 4

S.No.	Name of the student	Year of study
1	R. Sathya	2014-2015
2	P. Lakshmi Priya	2015-2016
3	S. Jesima Yasmin	2016-2017
4	Priyadharshini	2018-2019

Ph.D. Produced - 4

Thesis submitted - 1

Ph.D. Ongoing - 2

S.No.	Name of the student	Year of study	Title of the thesis
1	P. Amudha	2013 – Awarded	<i>In vitro</i> propagation, phytochemical Analysis and anticariogenic activity of <i>Acmella calva</i> (dc.) R.K. Jansen.
2	C. Sownthariya	2015 – 2023 Awarded	Antidermatophytic activity, phytochemical analysis and molecular docking studies of <i>Melia azedarach</i> L.
3	K. Priyadharshni	2017 – 2023 completed	<i>In vitro</i> and <i>in silico</i> analysis of phytocompounds isolated from <i>Acmella calva</i> (DC.) R. K. Jansen. against dental caries causing microbes

4	U. Thiripura Sundari	2018 – 2023 completed	Evaluation of <i>in vitro</i> anticancer activity of herbal and nano formulations from <i>Sphaeranthus indicus</i> L. and <i>Volkameria inermis</i> L.
5	S. Anushya	2020 – Thesis submitted	Screening, validation and anticancer potency of phytochemicals from <i>Morinda umbellata</i> L. against human breast cancer cell lines
6	Jennifer	2021 – ongoing	
7.	Prema	2023 – ongoing	

**iii. Patent filed: - 3**

S.No.	Application no. & The Patent Office Journal No.	Date of filing	Applicant Name	Title of invention	Field of invention
1	202441015195	03.02.2024	Mrs. U. Thiripura Sundari & Dr. P. Shanthi	Method for the preparation of nanoformulation of <i>Sphaeranthus indicus</i> L. and <i>Volkameria inermis</i> L. leaves extract and its applications thereof.	Biotechnology
2	202441015195	29.02.2024	Mrs. S. Anushya & Dr. P. Shanthi	Use of flavonoids for treating cancer cells and preparation method for the same	Chemical
3	202441034763 & 19/2024 Dated 10/05/2024 45107	01. 05. 2024	Mrs. C. Sownthariya & Dr. P. Shanthi	Antidermatophytic composition and preparation method thereof	Biotechnology

**iv. Book Published: - 1**

Title of the Book: SUSTAINABLE RURAL DEVELOPMENT AND STUDENTSOCIAL RESPONSIBILITY, 2022. Holy Cross College, Trichy

**iv. Book Chapter: - 2**

1. **Title of the Chapter:** Traditional medicinal plants with anticancer potential.

**Title of the Book:** Plants in everyday life. August 2021.

ISBN No. 978-81-923842-4-5. Annamalai Publications. PP. 48 -63.

**Authors:** Thiripura Sundari, **Dr. P. Shanthi**

2. **Chapter title:** Green Nanoparticles-Fabrication and its applications in Healthcare systems.

**Title of the Book :** Advances in biomedical and healthcare science Volume I. Bhumi publishing, Nigave Khalasa, Kolhapur, Maharashtra, India

**ISBN: 978-93-91768-81-2. November 2022.**

**Authors :** Thiripura Sundari, U., **Dr.P.Shanthi**, S.Bavya .

#### **iv. PAPER PUBLICATIONS (47 = 12 + 8 + 7 + 20)**

1. Sownthariya C., **Shanthi P.** and Dhanasekaran, D. Exploration of flavonoid derivatives from *Melia azedarach* L. leaf extracts through chemical characterization, *in vitro* and *in silico* antidermatophytic activity. **2024.** Journal of Applied Biochemistry and Biotechnology. Springer Nature. **(ABAB-D-24-01460; Communicated; Under Review).** Web of Science and SCOPUS.
2. Jennifer, S., **Shanthi, P.** (2024). *Syzygium* Species of the Western Ghats: Integrating Traditional Knowledge with Modern Pharmacological Research. *Current Pharmacology reports.* **(Communicated; Under Review) SCOPUS.**
3. Uthayakumar Thiripura Sundari and **Periyasamy Shanthi.** 2024. Biocomponents loaded silver nanoparticles of *Volkameria inermis* L. flower and fruit as alternative antibacterial and antioxidant agents". Research Journal of Biotechnology. **Accepted for publication.** Web of Science and SCOPUS.
4. **P. Shanthi**, Sr. Annie Xavier, S. Anushya and C. Sownthariya. December 2023. Callus induction, regeneration of shoots and assessment of clonal fidelity through androgenesis of *Baliospermum montanum* (Willd.) Muell. Arg. *J. Soils and Crops.* 33 (2): 344 - 352. **UGC CARE**
5. K. Priyadharshni, **P. Shanthi.** 2023 (October). Bio efficacy of Flavonoid phytocompound isolated from *Acmella calva* (DC.) R.K. Jansen. *Journal of Plant Science Research.* 39 (2) 235-243. **UGC CARE**
6. **P Shanthi**, P. Amudha, C. Sownthariya, S. Anushya, and S. Jennifer. June 2023. Effect of different nutrient solutions on rooting of *Acmella calva* (DC.) R. K. Jansen in hydroponic system. *J. Soils and Crops.* 33 (1): 115 - 119. **UGC CARE**
7. K. Priyadharshni, **P. Shanthi.** 2023 (March) Anticariogenic Activity of Steroid Phytocompound Isolated from *Acmella calva* (DC.) R.K. Jansen. *Asian Journal of Pharmaceutics.* 17 (1): 103 - 109. **UGC CARE**



8. Anushya Sankar, **Shanthi Periyasamy**, Sownthariya Chandrabalan. 2022 (October). *In vitro* Evaluation of Antioxidant Property, Chemo-profiling, Elemental Analysis of *Morinda umbellata* L. *Int. J. Pharm. Investigation*. 12(4) : 423-429. **Web of Sciences**.
9. K Priyadharshni, **P Shanthi**. 2022 (October) Isolation, Characterization and Identification of Anti-Cariogenic Compounds from the Ethanolic Extract of *Acmella calva* (DC) R.K. Jansen and its Activities. *Indian Journal of Natural Sciences*.13 (74): 47763 - 47772. **UGC CARE & Web of Sciences**.
10. Thiripura Sundari U. and **Shanthi P**. 2022 (August). Molecular characterization and antioxidant activity of *Volkameria inermis* L. *Current Botany*. 13: 46-52. **UGC CARE**.
11. Thiripura Sundari U. and **Shanthi P**. 2022 (September). Standardization and Elemental determination of Therapeutic Medicinal Plant *Volkameria inermis* L. *Journal of Plant Science Research*. 38 (1) 65–74. **UGC CARE**
12. Sownthariya C., **Shanthi P.**, Sathya R. and Jennifer S. 2022 (June). Phytochemical screening, antidermatophytic potential and GC-MS analysis of traditional medicinal plants. *Research Journal of Biotechnology*. 17 (6): 89 – 102. **Scopus**.
13. **Shanthi P**, Sownthariya C, Sundari U. T. 2022 (April). HPTLC Profiling and Antibacterial Efficacy of *Melia azedarach* Linn. Leaf Extracts Against Secondary Bacterial Pathogens of Dermatophytosis. *Biomedical Pharmacol J*. 15(2). **Scopus**.
14. Sownthariya C , **Shanthi P** , Balavinayagamani Ganapathy , Priyadharshni K , Thiripura Sundari U, Nagaraja Suryadevara. 2022 (April). Analysis of Phytochemical compounds present in some Traditional Antidermatophytic plants by Thin Layer, Column Chromatographic Methods. *Research J. Pharm. and Tech*. 15(4). **Scopus- Q3 Journal**.
15. Sownthariya C, **Shanthi P**. 2022 (January). Spectroscopic analysis (GC-MS and FT-IR) of *Melia azedarach* leaf extract. . *International Journal of Botany Studies*. Vol. 7 (2): 133-141. (**Web of Science**).
16. K Priyadharshni, **P Shanthi**. 2022 (February). Pharmacognostic evaluation of the whole plant of *Acmella calva* (DC.) R. K. Jansen. *International Journal of Botany Studies*. Vol. 7 (2): 346-352. (**Web of Science**).
17. Thiripura Sundari U, **Shanthi P**. 2022 (February). Pharmacognostical, phytochemical and heavy metal determination of Indian globe thistle plant-*Sphaeranthus indicus* L. *International Journal of Botany Studies*. Vol. 7 (2): 127-132. (**Web of Science**).
18. **Shanthi Periyasamy**, Jennifer Stanley and Sownthariya Chandrabalan. 2022 (January). Prevalence of Chronic Liver Diseases and Cirrhosis in Tiruchirappalli District of Tamil Nadu, India: A Cross-Sectional Study. *Journal of Academia and Industrial Research (JAIR)*. Vol. 10 (2): 16-20.
19. Priyadharshni K, **P Shanthi**. 2021 ((December). Gas chromatography-mass spectrometry (GC-MS) analysis of bioactive compounds of ethanolic extract of *Acmella calva* (DC.) R.K Jansen. *International Journal of Botany Studies*. Vol. 6 (6): 1055-1061. (**Web of Science**).

20. Sownthariya C, **Shanthi P**, Thiripura Sundari U, Priyadharshni K, Anushya S, Jennifer S. 2021 (December). Chromatographic and spectroscopic analysis of traditional medicinal plant *Melia azedarach* L. stem bark extracts. *International Journal of Botany Studies*. Vol. 6 (6): 841-846. (**Web of Science**).
21. **P Shanthi**, U Thiripura Sundari , C Sownthariya. 2021 (November). Anti-bacterial competency of stem barks of *Azadirachta indica* Juss. and *Acacia nilotica* Linn. *International Journal of Botany Studies* Vol. 6 (6): 410-413. (**Web of Science**).
22. **Shanthi P.**, Gnana Deepa Ruby R., Helen Diana I. and Anushya S. 2021. (May). *In vitro* studies on seed germination and callus induction on *Cassia alata* Linn. *Research Journal of Biotechnology*. Vol. 16 (5): 82 – 87. (**Scopus + UGC CARE** ).
23. Balavinayagamani, G., Chua, Y.Y., Nagaraja, S. and **Shanthi, P.** 2020. Proximate composition analysis of some commercial dried fishes sold in Malaysian markets. *J. Acad. Indus. Res.* 8(11): 180-187. (**Peer reviewed**).
24. Helen Diana, I., **Shanthi, P.** and Gnana Deepa Ruby, R. (2020). Synthesis of nanoparticles and phytochemical investigation of *Cyperus rotundus* L. *Indian Journal of Applied Research*. 10 (4): 1 – 3. Peer reviewed.
25. Priyadharshni. K And **P. Shanthi** (2020). In-Silico Modelling and Molecular Docking Studies of a Novel compound isolated from *Acmella calva* (DC.) R.K. Jansen. *International Journal of Scientific & Technology Research*. 9(01): 1795 – 1800. (**UGC + Scopus**) Peer reviewed.
26. **P. Shanthi**, U. Thiripura Sundari, C. Sownthariya and A. Nisha (2020). Phytochemical And FTIR Analysis Of A Mangrove Plant – *Volkameria inermis* L. *International Journal of Pharma and Bio Sciences*. 11(1): 1-5. Peer reviewed.
27. Hemavathy, A., **Shanthi, P.** Sowndharya, C. ThiripuraSundari, S. Priyadharshni, K (2019). Extraction and isolation of bioactive compounds from a therapeutic medicinal plant – *Wrightia tinctoria* (Roxb.) R. Br. *International Journal of Pharmacognosy and Phytochemical Research*. 11(3):199 – 204. Peer reviewed (**Scopus**).
28. **Shanthi, P.**, T.Mayba Gnana Suky, R. Gnana Deepa Ruby, Anne Xavier and P. Amudha (2019). Rapid and large-scale *in vitro* propagation of *Elephantopus scaber* L. – An important medicinal herb. *Journal of Emerging technologies and Innovative Research*. ISSN: 2349-5162. Impact factor: 5.87. Peer reviewed.
29. Mayba Gnana Suky, T., **P. Shanthi**, R.Gnana Deepa Ruby, R. Sowmiya and M. Yasodha (2019). Isolation and identification of bio active compounds in Chloroform extract of *Phyllanthus nodiflori* (L) Greene. *Journal of Emerging technologies and Innovative Research*, Vol. 6. Issue 1: 275-286. Impact factor: 5.87. Peer reviewed.
30. Gnana Deepa Ruby, R., **P. Shanthi**, T. Mayba Gnana Suky, and R. Meenapreethi (2019). Effect of Hydrogen ion concentration and medium on the life cycle of Chinese brake fern. *Journal of Emerging technologies and Innovative Research*, ISSN: 2349-5162, Vol. 6. Issue 1: 1-6. Impact factor: 5.87. Peer reviewed.

31. Palanisamy Amudha & **Periyasamy Shanthi** (2017). Evaluation of Antibacterial activity of *Acmella calva* (DC.) R.K.Jansen. *Academia and Society*. 3 (1): 224-228.
32. Sownthariya. C and **P. Shanthi** (2017). Nutritive component of some fresh and refrigerated fruits. *Academia and Society*. 2 (2):13-17.
33. Sownthariya. C and **P. Shanthi** (2015). Free –Radical scavenging activity of some fresh and refrigerated fruits. *Int. J. Pharm.and Bio Sci*. 6 (3): 824-830 . Impact factor – 5.121. Peer reviewed.
34. Sownthariya. C and **P. Shanthi** (2015). Influence of invertase and peroxidase activity on fruit quality under fresh and refrigerated conditions. *Asian Journal of Applied Research* 1(2) : 05-09. Peer reviewed.
35. Amudha, P. and **Shanthi, P.** (2011) Indirect organogenesis and in vitro layering of *Acmella calva* (DC.) R.K.Jansen from various explants. *J. Agricultural Technology*. 7(3):637-648. Peer reviewed (**Scopus**).
36. P.Amudha and **P. Shanthi** (2011) Antioxidant activity of some rare medicinal plants. *J. Pharmacy Research*. 4(3): 698 – 699. Peer reviewed.
37. **P. Shanthi** & P. Amudha (2010) Evaluation of the phytochemical constituents of *Acmella calva* (DC.) R. K. Jansen. *International J. Pharma & Bioscience*. 1(4): 308 – 314. Impact Factor – 0.36. Peer reviewed.
38. **P. Shanthi** & P. Amudha (2010) Anticariogenic activity of *Acmella calva* (DC.) R.K.Jansen., against selected pathogens. *J. Pure & Applied Microbiol*. 4(2): 599-604. UGC-CARE. Peer reviewed. **Scopus**.
39. **P. Shanthi** (2008) *In vitro* propagation of *Ormocarpum sennoides* (Willd) Dc. Prodr. from shoot tip explants. *Indian Journal of Plant Physiology*. (13): 29-32. Peer reviewed.
40. **P. Shanthi** & Sr. Anne Xavier. (2006) Micropropagation of *Acmella calva* (DC) R. K. Jansen from node explants. *Indian Journal of Plant Physiology*.11 (1): 89-92. Peer reviewed.
41. **P. Shanthi** & Mrs. Chelin Rani Gnanam. (2005) Studies on microflora and bio-chemical analysis of some healthy and infected fruits. *Holy Cross Research Journal*. (1): 13-17.
42. **P. Shanthi** & Sr. Anne Xavier. (2005) Micropropagation of *Baliospermum montanum* (Willd.) Muell. -Arg. By shoot tip culture – A rare medicinal plant. *Advances in Plant Sciences*. 18 (11):449-456. Impact Factor – 0.84. UGC-CARE.
43. **P. Shanthi** & Sr. Anne Xavier. (2004) Micropropagation of drought Tolerant castor (*Ricinus communis* L.) variety GCH-4 from shoot tip and node explants. *J. Swamy Bot. Club*. (21): 61-66.

44. **P. Shanthi** & Sr. Anne Xavier (2003) *In vitro* propagation of *Enicostemma littorale* Blume. from nodal explants - *Advances in Plant Sciences*. 16 (1): 9-12. (SCI). Impact Factor – 0.84. **UGC-CARE**.
45. **P. Shanthi** & Sr. Anne Xavier (2002) Direct organogenesis from intermodal segments of *Ruta graveolens* Linn. *in vitro*. *Journal of Swamy Botanical Club*. (19):27-29.
46. **P. Shanthi** & Sr. Anne Xavier (2002) *In vitro* propagation of *Baliospermum montanum* (Willd.) Muell. -Arg. through node and stem derived callus via organogenesis. Proceeding of National conference on “Recent trends in plant science research”. St. Thomas College, Kerala. **14-15**:6-12.
47. **P. Shanthi** & Sr. Anne Xavier (2001) *In vitro* propagation *Ruta graveolens* Linn. through shoot tip and nodal multiplication. *Vegetos*. (14): 1-5. Peer reviewed. **Scopus**. **UGC-CARE**.

**Conference/Seminar/Workshop/ Training Programme attended-** Academic & General:

**Paper presented & Seminars attended:- (20)**

1. Microorganism associated with fruits. 2000. Symposium on “Biology in New Millennium” 8<sup>th</sup> & 9<sup>th</sup> Feb. Dept. Botany, Holy Cross College, Trichy – 2.
2. *In vitro* propagation of *Baliospermum montanum* (Willd.) Muell. -Arg. through node and stem derived callus via organogenesis. National conference on “Recent trends in plant science research”. Nov. 14<sup>th</sup> & 15<sup>th</sup>. Dept. of Botany, St. Thomas College, Kerala.
3. *In vitro* regeneration of plantlets from shoot tip callus of *Baliospermum montanum* (Willd.) Muell. -Arg. 2003. State level seminar on “biotechnology – a toll for Biodiversity Conservation” Jan. 31<sup>st</sup> & Feb. 1<sup>st</sup>. Dept. of Botany, Holy Cross College, Trichy – 2.
4. Micropropagation of *Acmella calva* (DC) R. K. Jansen from node explants. 2004. National conference on “Current trends in biological scenario” Aug. 11<sup>th</sup> & 12<sup>th</sup>. PG & Research Dept. of Botany. Vellalar College for women, Erode.
5. *In vitro* propagation of *Elephantopus scaber*. 2004. National conference on “Current trends in biological scenario” Aug. 11<sup>th</sup> & 12<sup>th</sup>. PG & Research Dept. of Botany. Vellalar College for women, Erode.
6. *In vitro* propagation of *Baliospermum montanum* (Willd.) Muell. -Arg. a rare medicinal plant. 2004. National conference on “Current trends in biological scenario” Aug. 11<sup>th</sup> & 12<sup>th</sup>. PG & Research Dept. of Botany. Vellalar College for women, Erode.
7. *In vitro* propagation of *Baliospermum montanum* (Willd.) Muell. -Arg. a rare medicinal plant through somatic embryogenesis.. National conference on “Futuristic Biosciences & Research” 18<sup>th</sup> – 20<sup>th</sup> Nov. 2004. Dept. of Biotechnology, Holy Cross College, Trichy – 2.

8. National Seminar on “New Frontiers in Biological Sciences” Organised by Dept.of Bot., Holy Cross College, Trichy on 19<sup>th</sup> & 20<sup>th</sup> January 2007. presented a paper on ‘Micropropagation of *Ormocarpum sennoides* (Willd) DC. Prodr.’
9. International Conference on “Chemistry of Biomolecules – Current Trends and Future Perspectives” PG & Research Dept. Chemistry, Holy Cross College (Autonomous) Tiruchirappalli – 2 & Dept. Biochemistry, Madurai Kamaraj University, Madurai, 27<sup>th</sup> & 28<sup>th</sup> July 2016.
10. National seminar on “Bio-Entrepreneurship” conducted by the Department of Botany, Holy Cross College (Autonomous), Trichy. 12.02.2016.
11. International Conference on “ New Vista in Life Science”, PG Department of Biochemistry, Holy Cross College (Autonomous) Tiruchirappalli – 2, 11th September, 2018.
12. International Conference on Networking, Research and Innovation in Higher education for a sustainable society- Challenges and Channels- (ICNRI 2018) conducted by Holy Cross College(Autonomous), Tiruchirappalli on 25<sup>th</sup> – 27<sup>th</sup> July, 2018.
13. Association of University Teachers (Regd) TamilNadu (AUT), Periyar University Employees Union (PUEU), Thiruvalluvar University Employees Union (TUEU) on “Women’s Convention on “Dismantling the Glass Ceiling – A Paradigm to Sensitize, Untrammel and Empower”, at Periyar University, Salem on 18<sup>th</sup> August, 2018.
14. National Seminar on “Scientific Research and Education in Today’s Scenario” organized by the PG and Research, Department of Botany, Holy Cross College (Autonomous), Trichy on 13<sup>th</sup> & 14<sup>th</sup> February 2019.
15. National Seminar on “Bio Innovation” organized by the PG and Research, Department of Botany, Holy Cross College (Autonomous), Trichy on 10<sup>th</sup> March 2019.
16. National Conference on “Transformations and Changing Perspectives in Indian Higher Education” by Centre for Education Beyond Curriculum (CEDBEC) CHRIST (Deemed to be University), Bangalore on 21 – 22 September 2022.
17. National Seminar on “Phytomedicine and Nanomaterials in Plant Sciences” organized by the PG and Research, Department of Botany, Holy Cross College (Autonomous), Trichy on 15<sup>th</sup> & 16<sup>th</sup> December 2022.
18. International Conference on “innovations and Applications in Biomedical and Health Sciences”, conducted by PG & Research Department of Biotechnology and Bioinformatics, Holy Cross College (Autonomous), Trichy - 2, India in collaboration with Department of Anatomy, Yong Loo Lin School of Medicine, National University of Singapore & Department of Endocrinology, Dr. ALM PG IBMS, university of Madras, Taramani Campus, Chennai During 23 – 25, 2023.
19. one day Conference on “Challenges and Opportunities in Life Sciences” organized by the School of Life Sciences, Holy Cross College (Autonomous), Trichy on 15<sup>th</sup> February 2023.

20. National seminar on 'Climate Change and its Impact on Biodiversity' on 5<sup>th</sup> December 2023, conducted by the Post graduate Department of Botany, St. Joseph's College (Autonomous), Irinjalakuda, Kerala.

**Workshops attended: (18)**

1. UGC sponsored "Refresher Course in "Botany from 18.02.2023 – 04.03.2023. Ramanujam College, University of Delhi in Collaboration with Government Arts College (Autonomous), Karur, Tamil Nadu, India.
2. UGC-Sponsored online workshop on "E-Content Development & online Pedagogy" organized by the UGC-Human Resource Development Centre, Bharathidasan University, Tiruchirappalli from 24.09.2020 to 30.09.2020.
3. Two days National Level workshop on "Revised NAAC Norms and Procedures" organized by Bharathiyar University, Marudhamalai Road, Coimbatore on 26 & 27 October, 2018.
4. One day National level workshop on "Empowering Youth on Sustainable Development" organized by the NSS unit of National College in association with Madras School of Social work on 19.02.2018.
5. Orientation course for NSS Programme Officer of Bharathidasan University, 06.09.2017 – 12.09.2017 conducted by National Service Scheme, Empannelled Training Institution, Madras School of Social work, Chennai at Bishop Heber College (Autonomous), Trichy.
6. UGC sponsored "Refresher Course" in Life Science from 03.03.2016 – 23.03.2016. UGC Academic Staff College, Bharathidasan University, Trichy.
7. Three days workshop on "Basics of Bioinformatics and CADD" DBT-Fist sponsored, Holy Cross College (Autonomous), Trichy. 12.08.2014 to 14.08.2014.
8. One day workshop on "Quality Research Report Writing" organized by Curriculum Development Cell of Bharathidasan University, Tiruchirappalli on 28<sup>th</sup> February 2014.
9. Two days workshop on "Plant Biology for PG Assistants" conducted by Department of Botany, Holy Cross College, Trichy – 2. From 22.08.2013 – 23.08.2013.
10. Four days workshop on "E-content Development" at Holy Cross College, Trichy. 29.04.2013– 02.05.2013.
11. UGC sponsored "Refresher Course". 11.09.2012 – 01.10.2012. UGC Academic Staff College, Bharathiar University, Coimbatore.
12. Two days workshop on "Electrophoretic Techniques (WET)", Sastha Institute of Medical Technology, Trichy. 30.07.2010 and 31.07.2010.

13. UGC sponsored “Orientation Course”. 16.05.2008 – 12.06.2008. Academic Staff College, Bharathidasan University, Trichy.
14. Five day workshop on “E-content Development” – UGC 12<sup>th</sup> – 16<sup>th</sup>. 05.2008. Bharathidasan University.
15. Five days workshop on “E-content Development” at Holy Cross College, Trichy. 26.2.2007– 2.3.2007.
16. One day workshop on “SPSS package” 29.09.2007. Holy Cross College, Trichy – 2.
17. Two days workshop on “Ethics & Human values” on 19<sup>th</sup>& 19<sup>th</sup> July 2007. UGC Sponsored, Holy Cross College, Trichy – 2.
18. Five days workshop on “E-content Development” 26.02.2007 – 02.03.2007. UGC Sponsored, Holy Cross College, Trichy – 2.
19. State level workshop on PCR. 8-9.09.2005. PG Department of Biotechnology. Jamal Mohamed College, Trichy – 17.

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