

Name: Dr. P. CHRISTINA RUBY STELLA

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PROFESSIONAL STRENGTHS

- Possess fifteen years of college teaching experience in the mentioned field
- Possess ten years of school teaching experience
- Possess excellent command over spoken and written English
- In-depth knowledge of the concepts, theories and experimentation techniques of Chemistry
- Possess excellent teaching and time management skills

1. EDUCATIONAL SUMMARY : M.Sc., HDISM., B.Ed., M. Phil., Ph. D

- Bachelor's degree in Chemistry, Holy Cross College, Trichy- 1994 (First Class)
- Masters in Chemistry, St. Joseph's College, Trichy- 1996 (First Class)
- B.Ed , Govt. Educational College, Coimbatore- 1998 (University Seventh Rank)
- M.Phil in Chemistry, Bharathidasan University, Trichy- 2008 (First Class)
- PhD in Organic Chemistry, Bishop Heber College, Trichy- 2014

2. PROFESSIONAL EXPERIENCE : 25 years (15 years in College and 10 years in School)

- Holy Cross College, Tiruchirapalli
June 2018 to till date
Assistant Professor in Chemistry
- Bishop Heber College, Tiruchirapalli.
January 2008 to April 2017
Assistant Professor in Chemistry
- From 2000 to 2008
Chemistry PG Assistant at Rani Meyyammai Matriculation School, Puliur, Karur (Dt).
- From 1999 to 2000
Chemistry PG Assistant at St. Theresa Girls Hr. Sec. School, Karur (Dt).

(v) From 1998 to 1999

Chemistry PG Assistant at Sacred Heart Girls Hr. Sec. School, Tanjore.

3. Research Area : Organic Synthesis and Phytochemistry

- (i) **Ph. D Guide ship (Ref No: 6985/Ph.D.K2/Chemistry/R.A./Date: 21.07.2015)**
- (ii) **M.Phil Guide ship (Ref No: 45994/M.Phil/RA/Chemistry/2014/ Date:22.12.2014)**

(iii) Minor Projects Completed : 5

- ❖ 1 Project funded by TNSCST-DBT sponsored Programme- Student projectScheme- 2009-2010(Lr.No. TNSCST/SPS/AR/2009-10)
Title: Synthesis, Characterization and Biological studies of Medicinally active Benzoxazole- Amount: Rs.10,000/-
- ❖ 2 Projects funded by Bishop Heber College management- Title: Synthesis, characterization and biological activities of novel organic compounds- Amount: Rs.36,000/-
- ❖ 1 Project funded by UGC(MRP-3700/11) _ as Co-investigator- Title: Synthesis, characterization and biological activities of benzimidazole, benzoxazole and imidazole- Amount: Rs.1,80,000/-
- ❖ 1 Project funded by Management of Holy Cross College- Analyzing Antiaging Activity of Ethanolic Extract of Bark Saraca Asoca By Anti-Elastase, Anti-Collagenase And Anti-Microbial Activity – Rs. 10,000/-

4. Key Achievements:

- (i) **International conferences -28**
- (ii) **National conferences – 15**
- (iii) **National Seminar-4**
- (iv) **Workshops Attended- 10**
- (v) **Faculty Development Program - 5**

5. Publications:

1. **Christina Ruby Stella. P**, ShameelaRajam, Venkatraman.B.R, Characterization and anti- microbial evaluationof newly synthesized imidazole derivatives, *International Journal of ChemTech Research*, Vol.4, Issue No.4, pp 1447-1450, 2012.
2. **Christina Ruby Stella.P**, ShameelaRajam, Venkatraman.B.R, Synthesis, characterization and pharmacological studies of biologically active benzimidazole derivatives, *Pelagia Research Library*, Vol.3, Issue No.4, pp 929-934, 2012.

3. **Christina Ruby Stella.P**, ShameelaRajam, Venkatraman.B.R, Synthesis, characterization and biological evaluation of benzoxazole derivatives, *Journal of Chemical and Pharmaceutical Research*, Vol.4, Issue No.6, pp 2988-2993,2012.
4. **Christina Ruby Stella**. Shameela Rajam, and Maruthamuthu, Synthesis, characterization and antimicrobial activity of N-substituted 2- substituted-benzimidazole derivatives, *Journal of Chemical and Pharmaceutical Research*, Vol.4, Issue No.11, pp 4937- 4940,2012.
5. **Christina Ruby Stella**, Shameela Rajam, Maruthamuthu, spectral characterization and docking study of Newly synthesized benzotriazole derivatives, *World Journal of Pharmaceutical Research*, Vol 3, Issue No.6, pp 1431-1443, 2014.
6. **Christina Ruby Stella**, ShameelaRajam, D.Maruthamuthu, Ranjith, Rajakumar, Synthesis, Characterization And Anti-Microbial Activity Of Substituted Benzoxazole Derivatives, *World Journal of Pharmaceutical Research*, Vol 3, Issue No.6, pp 675-683,2014.
7. **Dr. (Mrs.) P. Christina Ruby Stella**, Dr. (Mrs.) P.ShameelaRajam, D.Maruthamuthu, R.Ranjith, Synthesis, Characterization And Pharmacological Studies Of Biologically Active Benzothiazole Derivatives, *World Journal of Pharmaceutical Research*, Vol 3, Issue No.5, pp 1165-1173, 2014.
8. **Christina Ruby Stella P** , Shameela Rajam.P, Maruthamuthu.D Spectral Characterization and biological activity of newly synthesized imidazole Derivatives, *WJPPS/ Issue /4/2015*, 887-897 Impact Factor 2.786 ISSN: 2278-4357.
9. **Christina Ruby Stella P**, Shameela Rajam.P, Maruthamuthu.D, , Synthesis, Characterization and evaluation of biological activity of Some Novel Benzimidazole Derivatives, *WJPR/5 /6 /2015*, Impact Factor 5.990 ISSN: 2277-7105.
10. **Christina Ruby Stella P**, Maruthamuthu.D, Shameela Rajam.P, Synthesis, Characterization and anticancer activity of benzoxazole derivatives, *Pharmaceutical chemistry JOCPR 2015*, 7(9):380-387 Impact Factor 0.72 ISSN: 0975-7384.
11. **Christina Ruby Stella P**, Shameela Rajam.P, Maruthamuthu.D, Synthesis, docking study and anticancer activity of benzoic acid Substituted derivatives of quinazolinones, , *Der Pharma Chemica*, 2015, 7(8):130-136 ISSN 0975-413X.
12. **Christina Ruby Stella P**, Shameela Rajam.P , Maruthamuthu.D, The chemistry and biological significance of imidazole, benzimidazole, benzoxazole, tetrazole and quinazolinone nucleus, , *Journal of Chemical and Pharmaceutical Research 2016*, 8(5):505-526, Impact Factor 0.72 ISSN: 0975-7384.
13. Senthamizh Selvan N., Agalya R., Maruthamuthu, Shameela Rajam, **Christina Ruby Stella P.**, Characterization and antimicrobial activity of newly synthesized

benzimidazolyl compounds with docking studies, *World Journal of Pharmaceutical Research*, Volume 5, Issue 2, 2015, 600-607. ISSN 2277– 7105

14. **P. Christina Ruby Stella**, Blessing Princy, Analyzing Antiaging Activity Of Ethanolic Extract Of Bark Saraca Asoca By Anti-Elastase, Anti-Collagenase And Anti Microbial Activity, *Journal of the Maharaja Sayajirao University of Baroda*, Vol-55, No.1(III) 2021,83-91, ISSN : 0025-0422

15. **P. Christina Ruby Stella**, P. Irudaya Irin Scleeva, A. Nivetha, V.S. Sangeetha, T. Swetha, Phytochemical screening, Antioxidant and Antimicrobial Activity of some Medicinal plants, *Journal of the Maharaja Sayajirao University of Baroda*, Vol-55, No.1(VI) 2021,1527-1547, ISSN : 0025-0422

16. **P. Christina Ruby Stella**, P. Irudaya Irin Scleeva, A. Nivetha, V.S. Sangeetha, Invitro antiurolithiatic activity of some medicinal plants on struvite urinary stones, *Journal of the Maharaja Sayajirao University of Baroda*, Vol-55, No.1(VI) 2021, ISSN : 0025-0422

17. A Nivetha, **PC Ruby Stella**, PI Irin Scleeva, D Keerthana, Development of biopolymeric film using natural polymer extracted from Muntingia calabura leaves, *Moroccan Journal of Chemistry*, Vol-11, Issue-4, 2023, 1100-1115

18. V. S. Sangeetha, **P. Christina Ruby Stella**, A comparative investigation of bioactive compounds present in *Datura stramonium L.* leaves extract in various solvents using TLC, IR and GC-MS analytical techniques, *Acta scientiarum biological sciences*, ISSN: 1807-863X v. 45, e67455, 2023

19. V. S. Sangeetha, P. Christina Ruby Stella , Vasuhi¹, S. Suguna¹, Vanitha, A. Priya and Rohit Khanna, Biological Importance and Spectral Characterization of Zn(II) and Cd(II) Complexes of 4-Aminobenzonitrile and Azide Ligands, *Bull. Env. Pharmacol. Life Sci.*, ISSN 2277-1808, Spl Issue [5] 2022 : 565-572

20. V. S. Sangeetha¹, P. Christina Ruby Stella, A. Nivetha, R. Shanmugapriya and Tripti Tikku, Phytochemical Screening and FT-IR Spectral Studies of Aqueous and Chloroform Extract of Desmodium Gangeticum leaves, *Bull. Env. Pharmacol. Life Sci.*, ISSN 2277-1808, Spl Issue [4] 2022: 741-746.

21. Akilarasan, Muthumariappan; Rex Shanlee, Santhiyagu Sahayaraj; Chen, Shen-Ming; Farooq, Wasif ; **Pichai Christina Ruby Stella**, Rational Synthesis of Perovskite Structured Bismuth Ferrite Incorporated Halloysite Nanotubes for the Electrochemical Profiling of Antibiotic Drug Sulfamethoxazole in Aquatic and Artificial Saliva samples", *FlatChem(Elsevier)*, Volume 48, November 2024, 100749.

22. A Nivetha, **P Christina Ruby Stella**, A Angel Praba, Vs Sangeetha, Anticancer activity of Flavanone Isolated From Citrus medica and Its Combination Effect with A Synthetic Drug 2-Deoxy-D-Glucose, *Oriental Journal of Chemistry*, 2024, Vol. 40, No.(4): Pg. 1116-1126.

10. Membership in various bodies:

- (i) Life member in ACT (Association of Chemistry Teachers)
- (ii) Membership in Bose Science Society
- (iii) BOS member in Dhanalakshmi Srinivasan Arts and Science college for women, Perambalur

11. Awards Received:

- (i) **Rashtriya Gaurav Award-2018** from IIFS, New Delhi
- (ii) **Best Citizen of India Award-2019** from International Publishing House, New Delhi
- (iii) **Best Young Scientist Award** from Bose Science Society.
- (iv) **Dr. A. P. J. Abdul Kalam Lifetime Achievement Award** from IRDP, Chennai.

13. Patent: 1 (Indian Patent-Published)

Title: **Sustainable and Effective treatment technology for removing organic pollutants in wastewater treatment using Nanobubbles**

14. Invited Lectures: 4

- ❖ Resource person in invited lecture on Organometallic Compounds at JJ College of Arts and Science, Pudukottai on 14th September, 2022
- ❖ Resource person in invited lecture on Coordination Chemistry at JJ College of Arts and Science, Pudukottai on 25th January, 2023
- ❖ Resource person in invited lecture on Quantum mechanics at Dhanalakshmi Sreenivasan College of Arts and Science, Perambalur on 2nd November, 2022
- ❖ Resource person in invited lecture on Culinary Alchemy: The molecular magic of nutrient-rich foods for a vibrant and healthy lifestyle at Nirmala College of Arts and Science for women, Coimbatore on 24th February, 2024

15. Other Achievements

Served as **Chemistry Coordinator** of Question bank for NEET/JEE aspirants in Ebek Language Laboratory, Trichy.