



## ▶ A. Winny Fred Crossia

NO.1/585, IYANNAR NAGAR,  
GUNDUR,  
TIRUCHIRAPPALLI - 620 007,  
TAMILNADU, INDIA.

Phone: +91 9965123710

E-mail: [winnyfredcrossia@gmail.com](mailto:winnyfredcrossia@gmail.com)

### OBJECTIVES

To keep my spirit for understanding, learning and improving my good opportunities.

### CURRENT POSITION

Asst. Professor in Dept. of Microbiology, Shrimati Indira Gandhi College, Tiruchirappalli-2.

### PATENT

Patent filed on "Extraction and Identification of Antibacterial and Antiviral compounds from polyherbal extract with spices – An *in-vitro* and *in-silico* analysis". Application No. 202241047109 dated 18.08.2022.

Patent filed on portable Device for Measuring sugar level through saliva. Application number 398671001 dated 28.10.2023.

### EDUCATION

- ▶ Cleared **ICAR-NET** on December 2018
- ▶ **Ph.D., MICROBIOLOGY** 2012 - 2016  
Dept. of Marine Science, Bharathidasan University, Tiruchirappalli – 24, Tamilnadu, India.
- ▶ **M. Phil** 2008-2009  
Completed with 79.1% in the Dept. of Microbiology, Bharathidasan University, Tiruchirappalli – 24.

▶ **M.Sc MICROBIOLOGY 2006-2008**

Completed with 81.1% in Shrimati Indira Gandhi College, Tiruchirappalli – 2 (Affiliated to Bharathidasan University).

▶ **Diploma in Medical Laboratory Technology 2007**

Completed with 63.4% in Advanced Medical Diagnostic Training Centre, Trichirappalli.

▶ **B.Sc MICROBIOLOGY 2003 - 2006**

Completed with 76% in Shrimati Indira Gandhi College, Tiruchirappalli – 2 (Affiliated to Bharathidasan University).

▶ **HSC 2003**

Completed with 67% in Vailankanni Raj Matriculation Hr. Sec. School, Tiruchirappalli - 21.

▶ **SSLC 2001**

Completed with 75.8% in Vailankanni Raj Matriculation Hr. Sec. School, Tiruchirappalli - 21.

**TEACHING EXPERIENCE : 5 years and 5 months**

Asst. Professor in Dept. of Microbiology, Shrimati Indira Gandhi College, Tiruchirappalli-2 from January 2018 till date.

**RESEARCH EXPERIENCE**

**Ph.D** - Effect of *curcuma longa* L. mediated silver nanoparticles against marine biofilm bacteria and root canal biofilm bacteria.

**JRF** – In DRDE funded project entitled “Screening Indian Medicinal Plants for anti-HCV property”

**M.Phil** – Microbes of root canal infection and curcumin as a cure for it.

**M.Sc** – Project entitled “Immunomodulatory property of *Aegle marmelos* - An *in-vitro* study.

**SKILLS AND ABILITIES**

1. Microbiological Techniques
2. Cell culture techniques

## **PUBLICATIONS**

Vinolia Christy A, Sushmitha K, Victoria Jasmine P, **Winny Fred Crossia A. Bioremediation: An Eco Solution.** Future trends in Biotechnology. IIP series, Volume 3 (accepted).

Rajeshwari M, Priya Barathi V, Priya Dharsini P, Dhanalakshmi P, **Winny Fred Crossia A.** Theranostic property of pigment producing actinobacteria. Future trends in Biotechnology. IIP series, Volume 3 (accepted).

**Winny Fred Crossia,** Subashini, Chitra Devi, Sivasankari and Praganya (2020). Biocompatible synthesis of TiO<sub>2</sub> Nanoparticles using *Aloe vera* extract and its application for textile dye degradation. Juni Khyat. 10(5): 259-275.

**Winny Fred Crossia James Rex Prabhu,** Vijayalakshmi Selvakumar, Subashini Rajkumar, Bhuvaneshwari Manivel, Chitra Devi Senthilkumar (2019). Screening of *Anogeissus latifolia* for phytochemical and antimicrobial properties against human pathogens. Journal of Emerging Technologies and Innovative Research. 6(5):120-127.

**Winny Fred Crossia James Rex Prabhu,** Subashini Rajkumar, Vijayalakshmi Selvakumar, Bhuvaneshwari Manivel, Chitra Devi Senthilkumar (2019). Comparative microbiological water analysis stored in different vessels. Journal of Emerging Technologies and Innovative Research. 6(5):592-603.

**Winnyfred Crossia,** Hans-Uwe Dahms, Krishnan Muthukumar, Thanamegam Kaviarasan, Thiyagarajan Thirunalasundar, Rathinam Arthur James (2016). *In-vitro* study: Immunomodulatory and cytotoxicity

effects of ethanolic leave extracts of *Aegle marmelos* and *Ficus benghalensis*. Journal of Coastal life Medicine. 4(3): 217-224.

**Winnyfred Crossia**, Krishnan Muthukumar, Santhaseelan Henciya, Santhosh Gokul, Rathinam Arthur James (2016). Bioactive potential of *Curcuma longa L.* as an intra-canal medicament in deciduous teeth with periodontal infection: An in-vitro study. International Journal of Natural Products Research. 6(1): 1-11.

**Winnyfred Crossia** & R. Arthur James (2016). Turmeric – A Spice of Panacea. International Journal of Recent Research and Applied Studies. 3(2):1-6.

#### **CONFERENCES AND WORKSHOPS**

Participated in the Six-day International Virtual Faculty Development Programme on “Biotechnology for Entrepreneurship and Startup” organized by the Department of Biotechnology & IIC, Bon Secours College for Women from 20.11.2023 to 25.11.2023.s

Participated in the Five-day International Virtual Faculty Development Programme on “Recent trends in Biological sciences” – (RTBS 2023) organized by the Department of Botany, Seethalakshmi Ramasamy College from 16.10.2023 to 20.10.2023.

Organizing member in International Conference on “Unveiling the Frontiers in Life Science” by the Department of Biochemistry & PG & research department of Microbiology on 17.08.2023 and 18.08.2023.

Participated & presented a paper entitled “Extraction of novel metabolites from *Gracilaria Multipartita* and its green synthesized silver nanoparticles on human pathogens contradiction” in the International

Conference on “Future Challenges of Microbes in Environment” (ICFCME - 2023) on 23.02.2023 organized by the PG & Research Department of Microbiology in Association with Microbiologists Society of India, Jamal Mohamed College (Autonomous), Tiruchirappalli.

Participated & presented a paper entitled “Cobalamin-Independent Methionine synthase inhibitory potential of *Eclipta alba*” in the International Conference on Converging Research Approaches in Life Science for Future Advancement” (CRLSFA-2023) on 15.02.2023 organized by the PG & Research Department of Microbiology IN Association with IQAC, Sengamala Thayaar Educational Trsut Women’s College (Autonomous), Sundarakottai, Mannargudi, Tamilnadu.

Attended a One day Workshop entitled “Cytochemical Staining Techniques” on 15.09.2022 organized by the Department of Biochemistry, Shrimati Indira Gandhi College, Tiruchirappalli.

Participated in International Seminar on “Global Health: Current issues, future trends & Social work interventions” on 21.01.2022 organized by PG & Research Department of Social Work, Shrimati Indira Gandhi College, Tiruchirappalli.

Participated in National seminar on ‘Recent Science Scenario in Blue Biotechnology’ (RSSBB-22) on 23.02.2022 and 24.02.2022 organized by Department of Marine Science, Bharathidasan University, Tiruchirappalli.

Participated in “National Conference on Marine Environmental Challenges and Coastal Zone Management Strategy” held at Dept. of Marine Science, Bharathidasan University, Tiruchirappalli during 13<sup>th</sup> and 14<sup>th</sup> February 2012.

Attended National Workshop on methods in *In-vitro* Toxicology organized by Mahatma Gandhi Doerenkamp Center (MGDC) for Alternatives to Use of Animals in Life Science Education & Gandhi-Gruber-Doerenkamp Chair for Alternatives in Life Science Education and *In Vitro* Toxicology held at Bharathidasan University, Tiruchirappalli during march 2011.

Presented a paper for PGIBMS award in XXXI Annual conference of Indian Association of Biomedical Scientists (IABMS) held at Vivekanandha College of Pharmacy, Thiruchengode on October 2010.

Presented poster in VIII Annual conference of Indian Association of Applied Microbiologists (IAAM) held at Bharathidasan University, Tiruchirappalli on September 2010.

Presented poster in XXX Annual conference of Indian Association of Biomedical Scientists (IABMS) held at Defence Institute of High Altitude Research (DIHAR), Chandigarh organized by DIHAR (DRDO) on November 2009.

Attended National Seminar on “Immunology & Immunotechnology” organized by The Department of Microbiology, Bharathidasan University, Trichy jointly with Indian Immunology Society, New Delhi on September 2009.

National seminar on “Bioinformatic tools for Gene & Protein analysis” conducted by Shrimati Indira Gandhi College, Trichy jointly with Central Agricultural Research Institute (CARI), Port Blair during 2007.

Scientific Seminar on “Medical laboratory science in Public Health” held at kamaraj Kalvi Koodam, Trichy during 2007.

## **PERSONAL DETAILS**

Father's Name : M. Albert Stephen

Husband's Name : A. James Rex Prabhu

Date of birth : 28.04.1985

Gender : Female

Blood group : "B" Positive

Religion : RC-Christian

Nationality : Indian

Marital status : Married

Languages known : Tamil and English

**Yours Truthfully**

**(A.WINNY FRED CROSSIA)**