



SHRIMATI INDIRA GANDHI COLLEGE

(Affiliated to Bharathidasan University)

Nationally Accredited at 'A' Grade (4th Cycle) by NAAC | An ISO 9001 : 2015 Certified Institution

Tiruchirappalli - 620 002

Name : Dr.A. Winny Fred Crossia
Designation : Assistant Professor
Department : PG & Research Department of Microbiology
Qualification : M.Sc., M.Phil., Ph.D., DMLT., ICAR-NET
Experience : **Teaching:** 7 yrs 4 months **Research** : 17 Years
Area of Specialization(s) : Immunology, Medical Microbiology
Email (Official ID) : winnyfredcrossia@sigc.edu
Aadhar Number : 5987 53307 088

Academic Qualifications

Degree	Branch	Institution / University Name	Year of Graduation
Ph.D	Microbiology	Bharathidasan University, Tiruchirappalli.	2017
M. Phil.,	Microbiology	Bharathidasan University, Tiruchirappalli.	2009
M.Sc.,	Microbiology	Shrimati Indira Gandhi College, Tiruchirappalli.	2008
B.Sc.,	Microbiology	Shrimati Indira Gandhi College, Tiruchirappalli.	2006

Additional Qualifications

Diploma / Vocational / Certification	Area of Specialization	Institution / University / Agency Name	Year
DMLT	Medical	Advanced Medical	2007

	Laboratory Technology	Diagnostic Training Centre, Tiruchirappalli	
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Research Guidance

Programme	No. of Students	
	Completed	Pursuing
M.Sc.,	22	-
B.Sc.,	10	-

Research Publications (Indexed)

International

1. **A.Winny fred crossia**, P.Priya Dharsini, K.Vijiyalakshmi and M.Mohamed Mahroop Raja. (2025). Exploration of Carica papyra L., extract infused silver nanoparticles against Staphylococcus sp from acne skin lesions. Biochem.cell.Arch, 25 (1), 493 – 500.
2. Dharshini Priya G, Chitra devi K, **Winny Fred Crossia A**, Bhuvanewari S (2025). Efficacy of Saraca asoca in the treatment of Gynecological disorders in Herbal Medicinal system”. African Journal of Biomedical Research. 28(1s): 1220-1222
3. **Winny Fred Crossia**, Subashini, Chitra Devi, Sivasankari and Praganya (2020). Biocompatible synthesis of TiO₂ Nanoparticles using *Aloe vera* extract and its application for textile dye degradation. Juni Khyat. 10(5): 259-275.
4. **Winny Fred Crossia James Rex Prabhu**, Vijayalakshmi Selvakumar, Subashini Rajkumar, Bhuvanewari 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.
5. **Winny Fred Crossia James Rex Prabhu**, Subashini Rajkumar, Vijayalakshmi Selvakumar, Bhuvanewari Manivel, Chitra Devi Senthilkumar (2019). Comparative microbiological water analysis stored in different vessels. Journal of Emerging Technologies and Innovative Research. 6(5):592-603.
6. **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.

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

Book Publication

1. Book entitled “Recent Advances in Microbial Sciences” ISSN No. 978-81-979376-7-5 in JPS Scientific publications, India.
2. Participated & presented a paper entitled “Evaluation of antibacterial activity of Lactobacillus isolates from curd samples” in the National Seminar on “Impact of Non-Communicable Disease in India, Organized by Department of Biochemistry, ICSSR – New Delhi on 08.10.2023 at Shrimati Indira Gandhi College, Tiruchirappalli.
3. Published a paper on “Antibacterial activity of Green synthesized Silver Nanoparticles from *S.auricuata*” in the International conference on Interdisciplinary Approaches in Biological Sciences for Innovative Research” (ISBN No.978-93-94638-45-7) Organized by the PG & Research Department of Microbiology, Shrimati Indira Gandhi College, Trichy on 27.08.2024.
4. 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.
5. 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.
6. Participated & presented a paper entitled “Nanoparticles from *S.auricuata*” in the International conference on Interdisciplinary Approaches in Biological Sciences for Innovative Research” (ISBN No.978-93-94638-45-7) Organized by the PG & Research

Department of Microbiology, Shrimati Indira Gandhi College, Trichy on 27.08. 2024.

Participation in Conference

International:

1. 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.

Participation in Seminars

1. 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.
2. Participated in “National Conference on Marine Environmental Challenges and Coastal Zone Management Strategy” held at Dept. of Marine Science, Bharathidasan University, Tiruchirappalli during 13th and 14th February 2012.
3. 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.
4. 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.
5. Scientific Seminar on “Medical laboratory science in Public Health” held at kamaraj Kalvi Koodam, Trichy during 2007.

Participation in Workshop

1. 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.

Participation in Orientation Programme / Short Term Courses

1. Completed the NEP 2020 Orientation & Sensitization programme under Malviya mission Teacher Training programme (MM-TTP) OF University Grants Commission (UGC) Organized by UGC- Malviya mission Teacher Training Centre (UGC -MMTTC) Bharathidasan University, Trichy, from 05.02.2024 to 14.02.2024.

Participation in Faculty Development Programme

1. Participated in the Three days Faculty Development Programme on “Idea Generation Methods” organized by ICT at Shrimati Indira Gandhi College, Trichy from 12.12.2024 to 14.12.2024
2. Faculty development program on “Innovative Pedagogies of the Future in Teaching Learning Process” organized by Department of Management Studies, Shrimati Indira Gandhi College, Tiruchirappalli on 17th to 19th March, 2022.
3. Five Day Faculty Development Programme on “PCR Technology” organized by The Tamil Nadu Skill Development Corporation, Government of Tamil Nadu for Naan Mudhalvan Scheme at Bharathidasan University, Tiruchirappalli from 17.07.2023 to 21.07.2023
4. Faculty Enrichment Programme on “Shape yourself with Siddha” organized by the Department of Chemistry, Shrimati Indira Gandhi College, Tiruchirappalli on 14th July 2022.
5. Five Days International Virtual Faculty Development programme on Recent trends in Biological Sciences from 16/10/2023-20/10/2023 at SRC College, Trichy-2.
6. Six Days Virtual Faculty Development programme on Biotechnology for Entrepreneurship and startup from 20/11/2023- 25/11/2023 at Bon Securs College for Women, Thanjavur.
7. Five Days Virtual Faculty Development programme on Recent Advance in Chemical Sciences from 27/11/202- 01/12/2023 at K.S.R College of arts and Science for Women,Tiruchengode.
8. Six days Faculty Development Programme on “Understanding Outcome Based Education” organized by Internal Quality Assurance Cell at Shrimati Indira Gandhi College, Trichy from 10.06.2024 to 15.04.2024 & 18.06.2024.
9. Seven days Online Faculty Development Programme on ”Workshop on Research Methology and Publication Ethics” organized by Star International Foundation for Research and Education from 5.03.2025 to 11.03.2025

Conference / Seminar / Workshop Organized

1. **Organizing member** in the International Conference on Emerging Outlook and Recent Trends in Microbiology organized by Department of Microbiology, Shrimati Indira Gandhi College, Trichy on August 26th, 2022.
2. **Organizing member** in the International Conference on Unveiling the Frontiers in Life Sciences organized by Department of Biochemistry and PG and Research Department of Microbiology, Shrimati Indira Gandhi College, Trichy on August 17th and 18th, 2023.
3. **Organizing member** in the International Conference on Interdisciplinary Approaches in Biological Sciences for Innovative Research organized by PG and Research Department of

Microbiology and Department of Biotechnology, Shrimati Indira Gandhi College, Trichy on
September 27th, 2024.

Membership in Professional Bodies

Name of the Professional Body	Nature of membership	Duration
Microbiologists Society of India	Life Member	
Indian Association of Biomedical Scientist	Life Member	

Awards / Honors

Awards / Honors	Agency / Institute	Year
JRF	DRDE funded project entitled “Screening Indian Medicinal Plants for anti-HCV property”	2010