

CAUVERY COLLEGE FOR WOMEN
(AUTONOMOUS)
STAFF PROFILE

PERSONAL INFORMATION

- 1. Name : Dr.P.F.STEFFI**
2. Date of Birth : 18.02.1989
3. Address :

Residential	Office
NO : 12,FF1,SYED FLATS,11TH CROSS, EAST,RAHUMANIYAPURAM, THILLAINAGAR, TRICHY-18.	CAUVERY COLLEGE FOR WOMEN, ANNAMALAI NAGAR, TRICHY -18.

ACADEMIC INFORMATION

4. Designation & Department : Assistant Professor, Department of Microbiology

5. Educational Qualification :

Degree	Year	College/University
B.Sc.,	2009	Shrimathi Indira Gandhi College, Trichy- 620002.
M.Sc.,	2011	Madras Christian College, Tambaram - 600059.
Ph.D	2015	Prist University, Thanjavur - 613403.

6. LINKEDIN: <https://www.linkedin.com/mwlite/in/dr-p-f-steffi-bipin-ba366249>

GOOGLE SCHOLAR ID: https://scholar.google.com/citations?user=wI-a_kUAAAAJ&hl=en

ORCID ID: <https://orcid.org/0000-0002-4339-8966>

SCOPUS ID: 56232666600

MENDELEY: <https://www.mendeley.com/search/?page=1&query=Steffi%20p%20f&sortBy=relevance>

WEB OF SCIENCE ID: AAA-5840-2020

PUBLONS: <https://publons.com/researcher/3316714/steffi-francis/publications/>

VIDWAN ID: <https://vidwan.inflibnet.ac.in/profile/174633>

Reesearcher ID : BDU02847001743

7. Experience :

Date of Joining	Institution	Year of Experience
16.06.2016	Cauvery college for women, Annamalai nagar, Trichy -18	4 years

1. Areas of Specialization : Nanoscience

2. Languages known : English, Tamil & Malayalam

3. Subjects Taught :

UG	Bioethics, Computer application in biology, Biochemistry II , Food Microbiology, Industrial Microbiology , Molecular Biology, Organic Farming, Microbial Biotechnology ,Value Education
PG	Fundamentals of biological science, Quality control and IPR, Bioinformatics and Biostatistics, Essentials of Microbiology, Microbial Biotechnology
M.Phil	NIL

4. Research Supervision:

	University from where guideship obtained	Thesis		
		Completed (in numbers)	Year of Completion	Pursuing (in numbers)
M.Phil		-	-	-
P.hD	BDU,Trichy			1

5. Details of Publications:

Journal Name & Volume	Year of Publication	ISBN Number	Name of the Paper	Impact Factor
Journal of Microbiology and Infectious Disease & Vol 2	2012	2146-9369	Prevalence of <i>Salmonella</i> in finger swabs and nail cuts of hotel workers	0.1
International Journal of Research in Pharmaceutical Science & Vol 3	2012	0975-7538	Altered metabolism of diabetes mellitus and its metabolic blockers	0.1
Asian Pacific Journal of Cancer Prevention & Vol 1	2013	1513-7368	Anti-Cancer Mechanism and Possibility of Nano-Suspension Formulation for a	0.62

			Marine Algae Product Fucoxanthin	
International journal of pharmtech research & Vol 6	2013	0974-4304	Preparation, characterization and stabilization of curcumin nanosuspension	0.14
Asian pharmaceutical journal of clinical research & Vol 7	2014	2455-3891	Curcumin, a potent anti-carcinogenic polyphenol	0.22
International journal of pharmacy and pharmaceutical sciences & Vol 7	2014	0975-1491	<i>In-silico</i> analysis of phytochemicals for inhibition of nachrs mediated lung cancer	0.22
Global Journal of Research & Vol 6	2017	2277 - 8160	Screening of Virulence and Toxin Genes In <i>Aeromonas Hydrophila</i>	-
International Journal of Research in Pharmaceutical Sciences & Vol 9	2017	0975-7538	Low cost pre-treatment of lignocellulosic waste by white rot fungi for ethanol production using <i>Saccharomyces cerevisiae</i>	0.1
Asia-Pacific Journal of Research & Vol 1	2017	2347-4793	Extraction and Partial Purification of Lactase Enzyme from <i>Lactobacillus</i> Sp. Isolated from Curd Sample	-
National Journal of Physiology, Pharmacy and Pharmacology & Vol 8	2018	2320-4672	Investigation of phytochemical constituents in <i>Spirulina fusiformis</i> for antibacterial activity	0.17

National Journal of Physiology, Pharmacy and Pharmacology & Vol 8	2018	2320-4672	Investigation of phytochemical constituents in <i>Azolla microphylla</i> for antibacterial activity	0.17
World Journal of Pharmacy and Pharmaceutical Sciences & Vol 7	2018	2278-4357	Micropropagation of <i>Plumbago zeylanica</i> - An Important Medicinal Plant	7.41
Research Journal of Pharmacy and technology & Vol 8	2018	0974-3618	Studies on the Effect of Phosphate Solubilizing Fungi on Soil and Plant Nutrient and Growth of Tissue Cultured Banana	0.13
International Journal of Botany Studies & Vol 4	2019	2455-541X	Effects of various plant growth regulators and ampicillin activity on <i>in vitro</i> propagation of <i>Plumbago zeylanica</i> : An important medicinal plant of south India-Kolli hills	5.12
Int J Pharm Sci & Res & vol 3	2020	0975-8232	Assessment of antibacterial and antioxidant activity of whey protein and quantification by reverse phase HPLC	1.230
J. Pharm. Sci. & Res. & Vol 12	2020	0975-1459	Phytochemical evaluation, GC-	0.13

			MS analysis of phytoactive compounds and antibacterial activity studies from <i>Calotropis gigantea</i> .	
Research Journal of Pharmacy and Technology	2020	0974-3618	Characterization of Actinobacteria isolated from salt pan, Environment of Thondi, Ramanathapuram District	0.13
Journal of the Maharaja Sayajirao University of Baroda	2021	0025-0422	Study on Bacterial Slime Deposit Growth In Paper Machine Wet End And Control By Conventional And Oxidized Biocide	-
Kala Sarovar	2021	09755-4520	Characterization And Properties of Bacterial Slime Located in Save All and Broke Handling System of Wet End	-
Int. J. Life Sci. Pharma Res	2021	2250-0480	Formulation of Anti-Fungal Cream to Treat Onychomycosis	-
Turkish Online Journal of Qualitative Inquiry	2021	1309-6591	Activities of Optical and Antibacterial Enhanced Microwave	-

			Assisted Zn ₂ SnO ₄ Nano Rods”	
Turkish Online Journal of Qualitative Inquiry	2021	1309-6591	Magneto Optical and Structural Properties of Ni, Ca, and Fe Doped ZnO Nanoparticles by Single-Step Method	-
Journal of Chemistry	2022	2090-9071	Environmental Hazard of Polypropylene from Disposable Face Masks Linked to the COVID-19 Pandemic and Its Possible Mitigation Techniques through a Green Approach	-
Current Nutrition & Food Science	2022	1573-4013	Nanotechnolog y: A Potential Approach for Nutraceuticals	-

Indian journal of natural science	2023	0976-0997	Economic and cost effective medium for growth of spirulina culture	-
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6. Details of Papers Presented:

Date	Organizer	Name of the Seminar	Paper Name
4 th -6 th December 2012	Prist university, Thanjavur.	Seventh Indo-US workshop on mathematical chemistry	Molecular diagnostic tool for analysis of Listeriosis.
14 th -16 th December 2012	Annamalai University, Chithambaram.	Diabetes mellitus and Cancer	Preparation and evaluation of curcumin nanosuspension for therapeutic application.
29 th -30 th August 2013	Rajah Serfoji Government college, Thanjavur.	Current approaches and challenges in nanomaterial and nanomedicine	Formulation of curcumin as nanosuspension to enhance the oral bioavailability.
12 th December 2013	American college, Madurai.	Frontier vistas in modern biotechnology	Preparation and characterization of curcumin-fucoxanthin dual drug loaded nanoparticles.
5 th February 2014	St. Joseph's college, Trichy	Recent advances in medicinal and aromatic plants (NASYMP'14)	Characterization and stabilization of dual drug loaded nanoparticles curcumin-fucoxanthin.

7. Details of Seminars / Conferences / Workshops Attended:

Year & Date	Organizer	Title	National / International	Topic
13 th -14 th February 2010	Ammu Swaminathan Auditorium, Asan Memorial Sr. Hr. Sec. School. Chennai.	Indian Herbal Conference	National	Indian Herbal Conference
16 th February 2010	Madras Christian College, Tambaram, Chennai.	Molecular Perspectives of microbes in health and environment	National	Molecular Perspectives of microbes in health and environment
9 th April 2010	Madras Christian College, Tambaram, Chennai.	Emerging spaces: Empowering women	National	Emerging spaces: Empowering women
3 rd September 2010	Madras Christian College, Tambaram, Chennai.	Microbes nature's Architects	National	Microbes nature's Architects
4 th February 2011	Madras Christian College, Tambaram, Chennai.	Technology and Microbes	National	Technology and Microbes

3 rd March 2011	Loyola College, Chennai.	Opportunities for Life Science Graduates in Food Processing Sector	National	Opportunities for Life Science Graduates in Food Processing Sector
20 th December 2011	SBRR College, Mysore.	Modern Trends in Research Methodology	National	Modern Trends in Research Methodology
5 th January 2012	Prist university, Thanjavur.	Art of Journal and Thesis Writing	National	Art of Journal and Thesis Writing
8 th -9 th February 2012	Prist university, Thanjavur.	Biotechnological insights in disease management	National	Biotechnological insights in disease management
8 th - 30 th March 2012	Prist university, Thanjavur.	Biodiversity and Biotechnology	National	Biodiversity and Biotechnology
18 th June 2012	Prist university, Thanjavur.	Biopharmaceuticals and functional foods-BPF2K2	National	Biopharmaceuticals and functional foods-BPF2K2
19 th June 2012	Prist university, Thanjavur.	Advances in medical sciences- AIMS-2K2	National	Advances in medical sciences- “AIMS-2K2
4 th -6 th December 2012	Prist university, Thanjavur.	Seventh Indo-US workshop on mathematical chemistry	International	Mathematical chemistry
14 th -16 th December 2012	Annamalai University, Chithambaram.	Diabetes mellitus and Cancer	International	Diabetes mellitus and Cancer
29 th -30 th August 2013	Rajah Serfoji Government college, Thanjavur.	Current approaches and challenges in nanomaterial and nanomedicine	National	Current approaches and challenges in nanomaterial and nanomedicine
12 th December 2013	American college, Madurai.	Frontier vistas in modern biotechnology	National	Frontier vistas in modern biotechnology

5 th February 2014	St. Joseph's college, Trichy	Recent advances in medicinal and Aromatic plants	National	Recent advances in medicinal and Aromatic plants
7 th – 8 th November 2014	NIT, Trichy.	Short term program on Nanostructured materials: Processing and Characterization	National	Short term program on Nanostructured materials: Processing and Characterization
28 th August 2015	Refsyn biosynthesis Pvt	Bioinstrumentation	National	Bioinstrumentation
15 th December 2016	Srimad Andavan Arts & Science College (Autonomous), Tiruchirappalli.	Challenges towards Rabies	National	Challenges towards Rabies
September 2017	Bishop Heber College, Trichy	Frontiers in Nanobiotechnology	International	Frontiers in Nanobiotechnology
8 th February 2018	St. Joseph College, Trichy.	Bionanomaterials and Bionanotechnology (ICBB'18)	International	Bionanomaterials and Bionanotechnology (ICBB'18)
15 th December 2018	St. Joseph College, Trichy.	Histopathological Techniques (HITECH-18)	National	Histopathological Techniques (HITECH-18)
29 th October & 2 nd November 2018	Cauvery College For Women, Trichy.	Capacity Building workshop on e-Content Development	National	Gram staining

8. Details of Seminars / Conferences / Workshops Organized:

Date	Title	National / International	Topic
19.01.2018	Mushroom cultivation	National	Mushroom cultivation

20.07.2020	Webinar on “COVID-19 - Ease Your Fear”	National	COVID-19 - Ease Your Fear
25.07.2020	Webinar on “Bacteria vs antibiotics: The rising menace of multidrug resistance”	National	Bacteria vs antibiotics: The rising menace of multidrug resistance

9.Details of Orientation / Refresher Course Attended:

Date	Title of the Course	Organizer
04.01.2018 - 18.01.2018	UGC - Sponsored Science Academics“ Refresher Course on “Bioprospection of Bioresources: Land to Lab Approach”.	St. Joseph College, Trichy.
Dec 2018- Mar 2019	Latest Trends in Pedagogy and Assessment	Swayam (ARPIT) Online

10.Details of Study Materials / Books written and published:

- Monograph on Polyphenols. 2014. ISBN: 978-3-659-46250-4; Copyright © 2014 AV Akademikerverlag GmbH & Co. KG, Germany.
- Nanosuspension. 2019. ISBN: 978 - 93 - 88672 - 20 – 7. Copyright© 2019 Sara Book Publication, Ahmedabad.
- Published a book chapter on Advances in Biotechnology and Bioscience -Volume – 5. 2020. Copyright© 2019 AkiNik publications. ISBN: 978-93-90070-86-2.
- Published a book chapter on Bionanotechnology. Copyright© 2019 Saliha publications. ISBN: 978-81-946014-5-6.
- A Textbook on Food Microbiology (Edited) Ryan Publishers, Trichy. ISBN: 978-81-947191-6-8. E-ISBN : 978-81-947191-7-5. 01.10.2020
- A Textbook on Marine Microbiology, Ryan Publishers, Trichy. ISBN: 978-81-947191-1-3. E-ISBN : 978-81-947191-9-9., 27.11.2020.

- Published a book chapter entitled “Production and characterization of Nisin by *Lactococcus lactis*” in *Advances in Science and Technology*, Vol.1, Page No. 117-127, ISSN: 978-81-952337-6-2, June 2021, Ryan Publishers, Trichy, India.
- Published a book chapter entitled “Assessing the biopotential ability of *Ixora coccinea* flower” in *Advances in Science and Technology*, Vol.1, Page No. 419 - 450, ISSN: 978-81-952337-6-2. June 2021, Ryan Publishers, Trichy, India.
- A book entitled “A Textbook of Pharmacognosy” ISBN: 978-93-93253-11-8, Ryan Publishers, Trichy-18.
- A book chapter entitled “Comparative assessment of antimicrobial and antioxidant potentiality of probiocated cabbage and radish juice” on *Advances in Science and Technology*, Volume - III, ISBN: 978-93-93253-50-7, Ryan Publishers, Trichy-18.
- A book entitled “Computer Applications in Biology” on ISBN- 978-81-19587-71-1, EISBN- 978-81-19587-81-0, Ryan Publishers, Trichy-18.
- A book chapter entitled “Bioinformatics: Emerging applications in day to day life a novel approach” on *Recent Trends in Multidisciplinary Research Vol 2.*, ISBN: 978-81-19587-63-6., Ryan Publishers, Trichy-18.
- A book chapter entitled “Potential uses of natural antimicrobial agents and their applications as bio-preservatives” on *Antimicrobials in Food Science and Technology*”, ISBN:978103221556(HBK), ISBN: 9781032215570 (PBK), ISBN:9781003268949 (EBK), CRC Press, Taylor and Francis.

11.Details of Chairing as Resource Person:

Date	Title of the Seminar/Conference	Session Chaired
07.05.2020	Three days online course on Biomedical nanotechnology organized by Indian academic researchers association.	I
09.3.2021 & 10.3.2021	International Webinar on “Science for Human Welfare and Development”	II
31.5.2022	ITECHNARY - 2022	I

18.10.2023	Exploring Diverse Avenues : Navigating Publication Opportunities in books,Journals and Book Chapters	I
28.02.2024	Exploring new horizon in business development	I

12.Administrative Positions held in the College:NIL

Nature of Position	Year

13.Details of Incharge / Participation in Extracurricular Activities:

(NSS, NCC, Sports, Games, Voluntary Association and Cultural Activities):

Nature of Activity	Period of Incharge
Cultural Activities (Assistant)	2016
Cultural Activities (Assistant)	2017
Sports	2018
Blood donor's club	2019
Club In-charge	2020
Placement In-charge	2020
Swayam NPTEL In-charge	2019-2023

14.Details of Participation in Consultancy, Training, Development etc..: NIL

15.Details of Membership in Academic Bodies/ Board of Studies: NIL

16.Details of Membership of Professional Bodies:

- Life time membership in Indian Society of systems for Science & Engineering (ISSE)
- Membership in VDGOD Technology Factory
- Membership in Einstein research academy

17.Countries visited academically: NIL

18. Any other information if any:

- University **Rank Holder** in UG.
- Awarded as **Second for General Proficiency in microbiology** for the year 2007- 2008, Shrimathi Indira Gandhi College, Trichy.
- Awarded as **Second for General Proficiency in microbiology** for the year 2008- 2009, Shrimathi Indira Gandhi College, Trichy.
- **Second prize for presenting a model in one day seminar** on “Microbes nature’s Architects” held on 3rd September 2010, Madras Christian College, Tambaram, Chennai.
- **Best Oral Presentation award** in the International conference on “Diabetes mellitus and Cancer” held on 14th-16th December 2012, Annamalai University, Chidambaram.
- Awarded as **Second for Best Oral Presentation** in National symposium on “Recent advances in medicinal and Aromatic plants” (NASYMP-14), held on 5th February 2014, St. Joseph’s college, Trichy.
- Awarded with **Maulana Azad National Fellowship (JRF) for Minority Students** by **University grants commission (UGC), New Delhi**. Received **5 lakhs** from **University grants commission for Ph.D project**.
- Acting as Reviewer for „**Human Molecular Genetics**’ in „Malayalam“ at NPTEL, IIT, Madras.
- Acting as Reviewer for „**International Journal of Molecular Biology: Open Access**’
- Acted as a reviewer and received **certificate of excellence in reviewing** from Asian journal of research in infectious disease.
- Acting as an Editor –in –Chief in **Ryan Publishers**.
- Cleared online exam ARPIT in “**Latest Trends in Pedagogy and Assessment**”
- Cleared online exam ARPIT in “**Biomedical Nanotechnology**”
- Completed **Certificate course** in *Watershed management, Bioinformatics, Lab technician, Artificial intelligence in biology certificate course - self learning course, Stress management-online course, Soil less agriculture, Fundamentals of fashion designing-online course, Botany the subject for all, Mushroom cultivation and Beneficial microbes*.
- Webinar Attended: International – 20, National -40 and Workshop -2.
- Training and FDP programme (1 week) – 4

- Acted as Reviewer for „**Journal of infectious diseases and research**“. ISSN : 2688-6537.
- Acted as Reviewer for „**International Journal of life science and Pharma**’.ISSN : 2250-0480.Web of science indexed journal.
- Acted as an editor for book entitled “**Food Microbiology**” .Ryan Publishers. Trichy. India. ISBN : 978-81-947191-6-8 & E -ISBN : 978-81-947191-7-5.
- Acted as an Chief editor for book entitled “**Advances in Science and Technology – Volume 1**”. Ryan Publishers, Trichy, India.
- Acted as a Organizing secretary for more than 30 International and national webinars under the Banner of Ryan Publishers,Trichy,India.
- Received **TNSCST student project (2023)** from Tamilnadu State Government entitled “"Formulation and Assessment of herbal hand sanitizer and its efficacy against skin microflora (*Staphylococcus aureus* and *Staphylococcus epidermidis*)"