

DR.S. JENNY ANGEL

Assistant Professor & Head,

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Career Objective:

To teach and motivate students and help them to embark the glorious career path in Bioscience field.

Summary of Skills:

- Good experience in teaching Immunology, Molecular Biology, Genetic Engineering, Bioinstrumentation, Biochemistry, General Microbiology and Industrial Microbiology
- Research experience in guiding students in various fields backed with dissertation
- Excellent communication skills in presenting lectures with updated information
- Skilled in teaching students with practical examples and recent ICT tools
- Experience as both internal and external examiner for practical session
- Experience as question paper setter and paper evaluation for both UG and PG level
- Assisting in preparing curriculum, seminars and conferences both at National and International level

Academic Qualifications:

Examination	Subject (s)	Name of the Board / University	Year of Passing
Ph. D	Microbiology	Periyar University, Salem	2016
M. Phil	Life Sciences	Manonmaniam Sundaranar University	2004
M. Sc	Microbiology	Srimad Andavan Arts and Science	2000

B. Sc	Biochemistry	Holy Cross College (Autonomous)	1998
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- Professional summary:**

Professional details	Designation & address	Period	Total years of experience
Teaching experience	Assistant Professor in Holy College for women (Nationally Accredited with “A” Grade) Tiruchirappalli	November 2018 to till date	Five years
	Assistant Professor in Cauvery College for women (Nationally Accredited with “A” Grade) Tiruchirappalli	June 2018 to October 2018	
	Assistant professor in Cauvery college for women (Nationally Accredited with “A” Grade), Trichy	2000-2005	Five years and six months
Research experience	JRF under MANF-UGC fellowship at Fermentation Technology Laboratory, Department of Microbiology, Periyar University, Salem	2010 - 2013	Three years
Microbiologist	District Microbiologist at G.HQ. Hospital at Mettur under IDSP, DPH&M, Salem	2013- 2016	Three years

Academic Year	Nature of the Journal	Papers Published Details
2023-2024		Characterization of Rubisco from various plant sources for efficient catalytic activity against carbon sequestration. Internal Journal of Biology, Pharmacy, and Allied Sciences April 2024, 13(4): 1743-1756 ISSN : 2277-4998
		<u>Anti Arthritic Activity of Leaves of Hibiscus Rosasinensis by</u>

2022-2023		Inhibition of Protein Denaturation and Human Cell Membrane Stabilization (Hrbc) in-vitro methods Academia and Society Volume 6 Number 1&2 ISSN 2393-9419
2021-2022		A case study on various parameters leading to discomforts on prolonged usage of mask International Journal of Multidisciplinary Research and Development, 8(7),95-99, 2021, ISSN: 2349-4182
2020-2021	Scopus	Study of Ribulose 1, 5-Bisphosphate Carboxylase from <i>Sulfobacillus acidophilus</i> Strain NY-1 Isolated from Lignite Mines Environment and Natural Resources Journal 18(4), 356-362, August; 2020
	Web of Science	Lab Scale Degradation of leather industry effluent and it's reduction by <i>Chlorella</i> sp.SRD3 and <i>Oscillatoria</i> sp SRD2: a bioremediation approach, Applied Water Science, 10:(112), 1-12, 2020
	Web of Science	Evaluation of antioxidant and antimicrobial activity of silk protein sericin extracted from <i>Bombyx mori</i> cocoons, International Journal of Entomology Research, 5(6), 254-259; December; 2020
2015-2016		Utilization of agro-industrial waste for polyhydroxyalkonates and exopolysaccharide production from <i>Bacillus</i> sp. 2-11, Elixir Biosciences 96 :41371-41375 (2016)
		Screening of glycolic acid producing chemolithotroph from neyveli and kanjamalai mines in India, Elixir Biosciences 94 :40347-40352 2229-712X (2016)
2013-2014	UGC	Review article- Eco friendly biopolymers as adhesives – an overview, International Journal of pharma and biosciences, 4(3): 524 - 533 0975-6299 (2013)
2011-2012	UGC	Isolation of inulinase producing bacteria from sugar cane soil, <i>International Journal of Applied Biology and Pharmaceutical Technology</i> , 3(4): 320-326 0976-4550 (2012)
NCBI Gene submission		<i>Sulfobacillus acidophilus</i> was submitted in gene bank with NCBI accession number:- KM893429

Book Chapters Published 2021- 2022	Microbiome Under Changing Climate: Implications and Solutions Woodhead Publishers (Elsevier) ISBN: 978-0-323-90571-8 (print) ISBN: 978-0-323-90697-5 (online)	CHAPTER 17 Carbon cycle feedbacks and global warming: a microbial perspective S. Jenny Angel, G. Vidyadharani and Shobana Sugumar pp: 371- 386 CHAPTER 18 Introduction to the impact of microbes on climate: an ocean of opportunities Shrushty Govani, Soumyaduti Kundu, Nayanika Bhattacharya, G. Vidyadharani, S. Jenny Angel and Shobana Sugumar pp: 393-413
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RESEARCH EXPERIENCE:

- ❖ **Patent Published** Registered in the year 2022-2023 (Ref No: 202241035575) A Device For The Filtering of Water Publication date (U/S 11 A) 22/12/2023
- ❖ **Projects Received** in the year 2021-2022 TamilNadu State Council For Science And Technology, Chennai - Student Project Scheme for the year 2021-2022 (code: ES-361). “Characterization of Rubisco from various plant sources for efficient catalytic activity against carbon sequestration”
- ❖ Seed Grant - Analysis of Physiochemical characteristics of fermented rice water
- ❖ Evaluation of antioxidant and antimicrobial activity of silk protein sericin

Dissertation Done:

- ❖ "Screening of Bacteria from Tannery Effluent Contaminated Soil for Resistance Towards Toxic, Xenobiotic Compounds & Heavy Metal” at CAS in Botany, University of Madras, Chennai – 2000.
- ❖ “Studies on Atrazine Biodegradation using Soil Microbes” at Cauvery College for Women, Tiruchirapalli – 2004.
- ❖ “Optimization and characterization of biodegradable adhesives (polyglycolic acid and exopolysaccharides) produced by bacterial isolates”, Periyar University, Salem- 2016.

Dissertation guided:

- ❖ Assessments of phytochemical and functional properties of developed health drink using moringa seeds
- ❖ Extraction and characterization of silk protein and its application in removal of chromium ions using bead entrapment method

- ❖ Evaluation of phytochemical constituents and antioxidant activity of fermented rice water
- ❖ A study on efficacy of antimicrobial activity of spent silk worm pupae powder
- ❖ Characterization and Evaluation of Antioxidant Activity of Spent Silkworm Pupae powder (SWP) by DPPH method
- ❖ Low cost cultivation and pigment extraction from microalgae isolated from paddy field
- ❖ Utilization of plant and animal waste raw material for fish feed formulation and its implication in growth of Indian major carp (*Labeo rohita*) fingerlings
- ❖ Green synthesis of copper nanoparticles as coagulants and encapsulation in hydrogel for water treatment”
- ❖ Comparative study of protein characterization of ribulose-1, 5-bisphosphate carboxylase of C3 and C4 plants
- ❖ Studies On Characterization And Optimization Of Silk Protein/Poly (vinyl alcohol) Hydrogel By Response Surface Methodology
- ❖ Study on the Effect of Temperature on Amylase activity by Soil Microbes.
- ❖ Antibacterial and Antifungal Activity of the Leaves of *Aristolochia tagala*.
- ❖ Demonstration of Human PapillomaVirus-16 in Cervical Cancer Tissues.
- ❖ Antagonistic interaction between *Fusarium solani* causing wilt disease in sissoo and *Psuedomonas fluorescence*.
- ❖ Study of the Halophilic Bacteria isolated from Used Curing Salts Dumping Sites.
- ❖ A Comparative Study of Fungi Exist in the clean rooms of Tissue Culture Laboratory and its surrounding atmosphere.

Refresher Course and FDP attended:

- ❖ UGC Sponsored Refresher Course in “ Microbiology” UGC- Academic Staff Council, at Bharathidasan University, Tiruchirappalli, and obtained “A” grade
- ❖ Current Bioprocess Technology , Products and Opportunities – KLEF with Academic Staff College July 2024
- ❖ Emerging Advancements in the field of Computational Biology – Dept of Bioinformatics- SathyaBama Institute of Science and Technology – January 2024
- ❖ CADD & Systems biology – Department of Biotechnology & Bioinformatics, Holy Cross College, December 2023

- ❖ FDP: Train The Trainers Deanery of Academics, (AIACHE) Bishop Heber College (Autonomous), Tiruchirappalli
- ❖ FDP-CICRSD Holy Cross College (Autonomous) Tiruchirappalli
- ❖ National Level- Faculty Development Programme on “Digital transformation and Innovation in Biological Sciences- Redefining the role of 2k teachers” Holy Cross College (Autonomous) Tiruchirappalli
- ❖ FDP for young Faculty of Colleges and Universities United Board- St. Christopher’s College of Education, Chennai

Paper presentation:

- ✓ Utilization of plant and animal waste as raw material for fish feed formulation and its implication in growth of Indian major carp (*Labeo rohita*) fingerlings- International conference on New horizons in Bioengineering academic industry partnership – 15.02.2024
- ✓ Nursery Farming of Blue Green Algae as Biofertilizer for Sustainable agriculture Holy Cross College International Virtual Conference – TRIES 2021, 28.10.2021-30.10.2021
- ✓ International conference on “New Vistas in Life sciences” Holy Cross College 11.11.2018
- Study on the Halophilic bacteria isolated using salt dumping sites for collagenase- National seminar on “Enzymes and Biocatalysis” Periyar University – 05.01.2012 to 06.01.2012
- Study of the effect of temperature on Amylase activity by soil Microbes- National seminar on “Molecular aspects of Microbiology”- Periyar University – 07.03.2012
- A rapid spectrophotometric assay of glycolic acid produced by chemolithotrophs isolated from mining sites in India- National Conference in IAAM- Periyar University – 14.10.11 to 15.10.11
- Demonstration of Human Papilloma virus-16 in cervical cancer tissues- National seminar on “CTVD”- Periyar University – 03.04.2011 to 04.04.2011
- Screening of bacteria from tannery effluent contaminated soil for resistance towards toxic compounds” at Periyar University, Salem – 2010.
- Studies on Atrazine biodegradation using soil microbes – National Symposium on “Recent trends in Biotechnology” at Bishop Heber College-25.02.2005

Training undergone

- Two day training on Mushroom production organized by Madhura mushroom and the madhura agro foods, Thuraiyur- 2003.

- In-service training in Medical Microbiology at the Institute of Ophthalmology, at Joseph Eye Hospital, Tiruchirapalli -1999

PARTICIPATION:

Academic Year	Name of the Conferences /seminars/ symposia/workshops	National / International	Details
Conferences			
2022-2023	International Conference	International	Recent advancement in Theurapeutics, Indra Gandhi college Trichy on 17.08.2022
2021-2022	International Conference ICCIPS-2019	International	PG Department of Biochemistry, Periyar EVR College 22.02.2019
Seminars			
2019-2020	International Seminar- ISDDRCS National Seminar – CPCBSR20	International National	Srimad Andavan Arts & Science College 28.02.2020 Rajah Serfji Government College 05.04.2020
2011-2012	National Seminar	National	“Molecular aspects in Microbiology”, Periyar University, Salem
			“Enzymes and biocatalysts”, Periyar University, Salem
			“Recent trends in Cancer biology”, Periyar University, Salem
			“Current trends in viral diseases and its diagnosis”, Periyar University, Salem
2009-2010	National Seminar	National	Diagnosis of Infectious Diseases by Molecular Biological Methods Bharadhasan University, Tiruchirappalli- 29.11.2010
			“Recent trends in microbial technology with reference to extremophiles” at Periyar

			University, Salem
2004-2005	National Seminar	National	Advances in Biology-St. Joseph College 19.01.2005 to 20.01.2005
1997-1998	Crash Course	National	Applied Biology- An Update 10.10.1998 – 11.10.1998
Workshops			
2012-2013	State TB Training and Demonstration centre	National	Training in STDC – RNTCP EQA 11.11. 2013- 13.11. 2013
2011-2012	National training cum workshop	National	“Analytical and technical advancement in AAS and GC”, Bharathidasan University,24.01.2012 to 25.01.2012
			Access to e-Resources of INFLIBNET under N-LIST Project at Periyar University, Salem 20.03.2012
2010-2011	National workshop	National	Nanobiotechnology and Molecular Biology, University of Madras, CAS in Botany. 06.07.2011 – 09.07.2011
2001-2002	Workshop	National	Advanced Techniques in Molecular Biology, JJ College of Arts and Science, 15.07.2002- 19.07.2002

WEBINARS

Academic

Year

**Name of the Conferences
/seminars/ symposia/workshops**

**National /
International**

Details

2020-2021

National webinar on “How to create
Educational Videos”

National

10th April 2020

Universal Teachers Academy –online

workshop

National

21st April to 30th April 2020

Taking Research forward during the pandemic	National	20 th May 2020
SDAU MOOC on “ Teaching from Home with IT Tools”	National	Holy Cross College (Autonomous) Tiruchirappalli 23 rd April to 1 st May 2020
Mangrove Environment	National	Veeriya Vandayar Memorial Sri Pushpam College, Thanjavur 5 th June 2020
Addressing Challenges in Higher Education through the OBE mode	National	Holy Cross College (Autonomous) Tiruchirappalli 4 th January 2021
Workshop “Molecular modelling and drug designing”	National	Holy Cross College (Autonomous) Tiruchirappalli 22 nd October 2020
The Implications of the NEP 2020 for higher education and role of teachers	National	
FDP- webinar series iii	National	
FDP-CICRSD	National	Holy Cross College (Autonomous) Tiruchirappalli 04 th July to 10 th July 2020
Combat the pandemic stress through YoGa	National	Holy Cross College (Autonomous) Tiruchirappalli 21 st June 2020
Workshop empowering teaching through online	National	Jawaharlal Nehru University, New Delhi, India 13 th June to 14 th June 2020
Pharmaceutical application of	National	K.M. College of Pharmacy,

induced pluripotent stem cells		Madurai
		24 th June 2020
Nano materials	National	Sadakathullah Appa College
		6 th June 2020
Effective conduct of online classes	National	Sri Eshwar College of Engineering
		20 th June 2020
FDP risk management in times of crisis	National	Holy Cross College (Autonomous) Tiruchirappalli
		12 th June 2020
Virtual lab FET MJP	National	M. J. P. Rohikhand University Bareilly
		06 th June 2020
Precision medicine	National	Holy Cross College (Autonomous) Tiruchirappalli
		17 th June 2020
FDP-Funding Schemes and Parenting Scientific Innovations	National	Holy Cross College (Autonomous) Tiruchirappalli
		13 th June 2020
Discover your values	National	Holy Cross College (Autonomous) Tiruchirappalli
		10 th June 2020
Andragogy of online teaching	National	Holy Cross College (Autonomous) Tiruchirappalli
		29 th May 2020
Applications of enzyme in food industry	National	Dhanalakshmi Srinivasan College, Perambalur
		04 th June 2020

Additional Details

- ❖ Life Time Membership In Teaching And Education Research Association (TERA) Eurasia Research
- ❖ Delivered a special lecture on "Miracle millets- March 2023" in the Department of Psychology, Holy Cross College
- ❖ Acted as judge for ADZOOMAD in the Department of Zoology, Holy Cross College, September 2024

Personal Details

Name	:	S. Jenny angel
Date of Birth	:	24 – 06 – 1978
Gender	:	Female
Contact address	:	# 4/166, 5 th street, Thirunagar, Ponmalai, Tiruchirappalli- 4
Nationality	:	Indian
Religion	:	Roman Catholic

Declaration

I hereby declare that the above furnished information is reliable

S. Jenny Angel