

<b>Name</b>	<b>Dr. T.P. KUMARI PUSHPA RANI</b>
<b>Qualification</b>	M.Sc., M.Phil., Ph.D
<b>Designation</b>	Assistant Professor Department of Microbiology
<b>Year of Joining</b>	05.10.2020
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#### **Seminars/Workshops/FDP/Conferences/Webinars**

<b>Date</b>	<b>Paper Presented/ Participated</b>	<b>Title of the Paper</b>	<b>Organized By</b>	<b>Workshop/ Seminar/ FDP</b>	<b>Type</b>
15 <sup>th</sup> May 2024 to 22 <sup>nd</sup> May 2024	Participated		Department of Allied Health Sciences, Noorul Islam Centre for Higher Education, Kumaracoil	Online FDP on Diseases due to Lifestyle changes	National
6 <sup>th</sup> April 2024	Participated		Internal Quality Assurance Cell (IQAC), St. Xavier's College (Autonomous), Palayamkottai & Xavier Board of Higher Education, Tamil Nadu Chapter	Online training programme on "AI - Tools for Teaching and Learning"	National
3 <sup>rd</sup> & 4 <sup>th</sup> April 2024	Participated		PG & Research Department of Botany, V.O. Chidambaram College, Thoothukudi	Lecture workshop on Recent developments on Biodiversity and Ecoservices and their	National

				impact on human welfare	
8 <sup>th</sup> March 2024	Presented	Review on Therapeutic aspects of <i>Cymbopogon citratus</i>	PG & Research Department of Botany, V.O. Chidambaram College, Thoothukudi	National Conference on Herbal medicine to sustain human and environmental health	National
11 <sup>th</sup> to 13 <sup>th</sup> December	Participated		William Research Centre, Nagercoil	Multidisciplinary approach on Conservation of Nature and Ayush medicine for your future	International
11 <sup>th</sup> August 2023	Participated		Library Committee and IIC of St. Mary's College (Autonomous) Thoothukudi in Technical collaboration with SALIA-Tirunelveli Chapter	Artificial Intelligence tools for education with special reference to Chat GPT, GPT 4 & LAMMA	National
30 & 31 <sup>st</sup> January 2023	Participated		Department of Biotechnology, The American College, Madurai	Conference on Biotechnological Trends for Sustainable Future	International
1 <sup>st</sup> to 5 <sup>th</sup> September 2022	Participated		Marian Star Centre, PG & Research Department of Zoology, St. Mary's College (Autonomous), Thoothukudi sponsored by the Department of Biotechnology, Ministry of Science and	FDP on Biotechnology today and tomorrow: Innovations and Implications	National

			Technology, Govt. of India, New Delhi		
29 <sup>th</sup> July, 2022	Participated		NIPAM, Govt. of India	IPR Awareness programme	College
04 <sup>th</sup> to 10 <sup>th</sup> July, 2022	Participated		SRM Institute of Science and Technology, Chennai	Research prospects and progress in Biological Science	National
14 <sup>th</sup> March 2022	Participated		Department of Biotechnology Under DBT Star College Scheme, V.V.Vanniaperumal College for Women (Autonomous) Virudhunagar	“Thrust Areas in Biotechnology”	National
9th & 10th March 2022	Participated		Department of Zoology, V.V.Vanniaperumal College for Women, Virudhunagar	Global Marine Biodiversity-Status, Threats and Conservation	National
08 <sup>th</sup> March 2022	Participated		PG & Research Department of Botany, H.H. Rajah’s College (Autonomous), Pudukkottai	Current trends in Gene biology	International Seminar
4th & 5th March 2022	Participated		Department of Zoology, Ayya Nadar Janaki Ammal College, Sivakasi sponsored by Department of Biotechnology (DBT), New Delhi.	Recent Progresses in Biological Sciences	International Conference
3rd & 4th March	Participated		Marian Star Centre, Department of Botany, St. Mary’s College	Climate Change and Future	International Webinar

2022			(Autonomous), Thoothukudi, sponsored by the Department of Biotechnology, New Delhi	Challenges	
21st to 25th February 2022	Participated		Marian Star Centre, Department of Botany, St. Mary's College (Autonomous),  Thoothukudi, sponsored by the Department of Biotechnology, New Delhi	Intellectual Property Rights	FDP
22 <sup>nd</sup> February 2022	Participated		Department of Biotechnology Under DBT Star  College Scheme, V.V.Vanniaperumal College for Women (Autonomous) Virudhunagar	“Good Laboratory Practices”	National
15 <sup>th</sup> February to 21 <sup>st</sup> February 2022	Participated		Department of Chemistry, Syed Ammal  Arts and Science College, Ramanathapuram.	Modern Innovations In Chemical Science And Technology	One week FDP
16th to 18th February 2022	Participated		Marian Star Centre, Department of Botany, St. Mary's College (Autonomous),  Thoothukudi, sponsored by the Department of Biotechnology, New Delhi	Microalgal Technology	Internation al Workshop
31 <sup>st</sup>	Participated		Marian Star Centre,	Exploring new	One week

January to 5 <sup>th</sup> February 2022			Department of Chemistry, St.Mary's College (Autonomous), Thoothukudi sponsored by the Department of Biotechnology, Ministry of Science and Technology, Govt. of India, New Delhi	frontiers in Chemical and Biological science	FDP
2 <sup>nd</sup> February 2022	Participated		Sathyabama Institute of Science and Technology, Deemed-to-be University, Department of Visual Communication, Chennai	Innovative Trends in Public Relations to Introduce and Promote Products	National
28th January 2022	Participated		IIC, Cauvery College for women, Trichy	Innovation in the Era of Climate Change	National
22 <sup>nd</sup> , 23 <sup>rd</sup> and 26 <sup>th</sup> January 2022	Participated			Environmental, Agricultural, Chemical and Biological Sciences	International
16 <sup>th</sup> March 2022	Participated		Library and NAAC committee of Government Arts College (Autonomous), Karur	"Higher Education Services Offered By Infflibnet Centre"	State
18th and 19th January 2022	Participated		Department of Biotechnology, PSG College of Arts & Science, Coimbatore	Current Scenario in Agricultural and Food Biotechnology	Science Academies ' Virtual Lecture Workshop

27 <sup>th</sup> January 2021	Participated	-	Research Department of Botany, Holy Cross College, Nagercoil	Webinar on Intellectual Property Rights	National
10 <sup>th</sup> February 2021	Participated		Department of English, Arasu Engineering College, Kumbakonam	Webinar on Soft skills are life skills	State
15 <sup>th</sup> February 2021	Participated		Department of Mechanical Engineering, Arasu Engineering College, Kumbakonam	Webinar on Fuel conservation and management	State
16 <sup>th</sup> February 2021	Participated	-	Department of Microbiology, Dwaraka Doss G.D. Vaishnav College, Chennai	Webinar on Nanotechnolog y - a general perspective	National
20 <sup>th</sup> February 2021	Participated		Department of Chemistry, Arasu Engineering College, Kumbakonam	Webinar on A Day with Polymer	State
20 <sup>th</sup> February 2021	Participated	-	Research Department of Botany, Holy Cross College, Nagercoil	Webinar on Vaccine Production	State
04 <sup>th</sup> May 2021	Participated		Select Science, UK	Spectroscopy tools in drug discovery and development	Internationa l
05 <sup>th</sup> May 2021	Participated		Department of Botany, TTWRDC for  Women, Nizamabad, In Collaboration with Dept. of Botany, Telangana University	Plants & Environment'	National
07 <sup>th</sup> May 2021	Participated		Nesamony Memorial Christian College, Marthandam	Covid 19 Vaccines and	State

				Vaccination	
6th May to 11th May 2021.	Participated	-	PG and Research Department of Zoology, St. Mary's College (Autonomous), Thoothukudi	Faculty Training Programme on Computational Biology"	National
14 <sup>th</sup> May 2021	Participated	-	IQAC, Central Library and SALIS (Tirunelveli Chapter), Pioneer Kumarasamy College, Nagercoil	FDP on "API Scoring Systems For Faculty Members, Librarians And Physical Directors With Special Reference To UGC Regulation 2018"	National
15-May-2021	Participated	-	FDP Cell & IQAC, Arya PG College, Haryana	Happiness & well being during Covid times	National
19-May-2021	Participated	-	St. Joseph College of Education, Tirunelveli	Prevention and Safety from Corona 21	National
20-May-2021	Participated	-	Department of Biotechnology, Valliyammal College for Women, Chennai	"Current Perspective of Nutrifoos to combat COVID 19"	International
22-May-2021	Participated	-	Department of Zoology, Adhitanar College of Arts and Science, Tiruchendur	Mucormycosis in Covid 19 Victims	State
22-May-2021	Participated	-	Rani Parvathi Devi College of Arts & Commerce, Karnataka	Challenges and opportunities in higher education during and after Covid 19 pandemic	International Webinar
28-May-2021	Participated	-	Department of Allied Health Science, Noorul Islam University	Genetic Technology -	International Webinar

				2021	
02-Jun-2021	Participated	-	Department of Microbiology, Ayya Nadar Janaki Ammal College, Sivakasi	Industrial Spirulina Production Technology	National Webinar
04-Jun-2021	Participated	-	Department of Microbiology, ANJAC, Sivakasi	Stem Cell and its Therapeutic Applications	International Webinar
05-Jun-2021	Participated	-	PG & Research Department of Botany, Holy Cross College, Nagercoil	Re imagine, Recreate and Restore the environment	State
05-Jun-2021	Participated	-	Department of Botany, Nesamony Christian College, Marthandam	Ecosystem Restoration	State
07-Jun-2021	Participated	-	Department of Computer Science, Sarah Tucker College, Tirunelveli	Professional guidance on writing Research article and applying for funded Projects	National FDP
07-Jun-2021	Participated	-	Department of Chemistry, Bakthavathsalam College, Chennai	Raman Spectroscopy-Instrumentation and Analysis	National Webinar
08-Jun-2021	Participated	-	Veridian Micro Lab Pvt Ltd	Fish Microbiology	State
09-Jun-2021	Participated	-	Pop's College	Corona Virus and Wild life trade	National
09-Jun-2021	Participated	-	Department of Microbiology, K.R..College Of Arts & Science, Kovilpatti	"Biofloc-Copefloc: An Innovative Way Of Aquaculture"	National
10-Jun-2021	Participated		Department of Biotechnology, St. Joseph's College, Chennai	Vulnerable Effect Of Mucor Mycosis"	National
11 <sup>th</sup> June 2021	Participated		Department of Microbiology, K.R..College Of Arts & Science, Kovilpatti	"Impact On Climatic Changes In The Marine Ecosystem"	State
11 <sup>th</sup> June 2021	Participated		PG and Research Department of	International Webinar On	International



			Microbiology, Sadakathullah Appa College, Tirunelveli	Transmission, Pathogenesis Of Sars-Cov-2 & Its Host Immune Response	
17-Jun- 2021	Participated	-	Department of Biotechnology, D.G. Vaishnav College, Chennai	Career guidance & jobs of the future	Internationa l
18-Jun- 2021	Participated	-	Department of PG, Zoology, Aditanar College, Tiruchendur	Fish Biodiversity: Threats And Conservations	State
18-Jun- 2021	Participated	-	National Service Scheme of M.R.Govt, Arts College ,Mannargudi	Siddha Medicine For Covid 19 Pandemic Disease	State
15-20 Jun- 2021	Participated	-	PG& Research Department of Microbiology, Sree Sankara College, Kalady, Kerala	Recent trends in biological sciences	Internationa l
23-Jun- 2021	Participated	-	Ryan Publishers	"Some Common Disorders seen in Children"	Internationa l
24-Jun- 2021	Participated	-	Department of Zoology, Sadakathullah Appa College (Autonomous), Tirunelveli	Recent Trends In Immunostimula nts Application In Aquaculture Industry	Internationa l
28-Jun- 2021	Participated	-	Dept. of Biotechnology, Sree Narayana Guru College, Coimbatore	Food and Mood	State
05 <sup>th</sup> July 2021	Participated	-	PG and Research Department of Microbiology, M.R. Government Arts College, Mannargudi	“SARS-CoV-2 Variants and Development of Covid – 19 Vaccines”	State
08 <sup>th</sup> July 2021	Participated	-	Department of Biotechnology, AKS University and supported by the National Academy of Science, India (NASI)- Bhopal Chapter and Microbiologists Society, India	Biotechnology Popular Expert Lecture Series - 2021	National

10 <sup>th</sup> July 2021	Participated	-	Department of Microbiology, Botany & Biotechnology, Andhra Loyola College, AP	Drug Delivery and Career Prospects in Biological Sciences	International
23 <sup>rd</sup> & 24 <sup>th</sup> July 2021	Participated	-	Department of Zoology, Nirmala College for Women, Coimbatore.	Faculty Development Program on “Molecular Docking”	National
28 <sup>th</sup> July 2021	Participated	-	Department of Zoology & Research Centre & IQAC, Nesamony Memorial Christian College, Marthandam	Anthropogenic Impact On Zoochores	National
30 <sup>th</sup> July 2021	Participated	-	Department of Zoology, M.R. Government Arts College, Mannargudi	“Vermitechnology for Sustainable Agriculture and Organic Waste Management”	National
30 <sup>th</sup> July 2021	Participated	-	Ryan Publishers	"Trends In Forensic Science”	International
30 <sup>th</sup> July 2021	Participated	-	Department of Biotechnology, St. Joseph’s University, Nagaland	Biotechnology and Health Science	International
10 <sup>th</sup> August 2021	Participated	-	Department of Botany, G.Venkataswamy Naidu College (Autonomous), Kovilpatti	Phytoremediation	National
14 <sup>th</sup> August 2021	Participated	-	Department of Zoology, Nirmala College for Women, Coimbatore.	“DNA Barcoding”	National
23 <sup>rd</sup> August 2021	Participated		Department of Microbiology, K.R.College Of Arts & Science, Kovilpatti	“Viral Metagenomics”	National
13 <sup>th</sup> September 2021	Participated		Department of Microbiology, K.R.College Of Arts & Science, Kovilpatti	“Fish Viral Disease Management & Cell Culture Research In India”	National

16 <sup>th</sup> September 2021	Participated		Department of Microbiology, K.R.College Of Arts & Science, Kovilpatti	“COVID-19 Pandemic outbreak in India: Present Scenario and Steep Climb Ahead”	National
23 <sup>rd</sup> to 25 <sup>th</sup> September 2021	Participated		Department of Microbiology, Ayya Nadar Janaki Ammal College, Sivakasi -	Faculty Development Programme on “Challenges in Microbiological Invention and Intellectual Property Rights”	National
25 <sup>th</sup> September 2021			Botany Department, Saint Francis De Sales College, Nagpur	“Steps Towards Environmental Sustainability”	International
30 <sup>th</sup> September 2021	Participated		Department of Zoology and Eco Club, Arignar Anna Government Arts College, Namakkal	"Apiculture: An Overview"	State
1 <sup>st</sup> October 2021	Participated		PG& Research Department of Biochemistry, Sri Akilandeswari College, Wandiwash	Epigenetic Regulation of HIV mediated neuroinflammatory Assay techniques & Testes for Covid 19 Diagnosis	International
10 <sup>th</sup> October 2021	Participated		P.G. and Research Department of English of A.P.C. Mahalaxmi College for Women, Thoothukudi	Developing E- Content for MOOC through SWAYAM for UGC/CEC for an Effective Instructional Experience	National FDP
16 <sup>th</sup> October 2021	Participated		Ryan Publishers	Impact of pharmacogenomics and micro RNA	International

				regulation in pathogenesis of Psoriasis	
28 <sup>th</sup> to 30 <sup>th</sup> October 2021	Participated		PG Department of Botany, Srimad Andavan Arts and Science College (Autonomous), Trichy	Biodiversity of Microalgae and its Identification Techniques – tapping the ancient power of microalgae	Virtual Training Programme
30 <sup>th</sup> October 2021	Participated		PG & Research Department of Biochemistry, Sacred heart College, Tiruppattur	Emerging infectious diseases & Nano therapeutics	International
25th November 2021	Participated		Department of Microbiology, St. Mary's college Autonomous, Thoothukudi	Industrial Waste Management and byproducts through Microbial Intervention	National
26th November 2021	Participated	Phytochemical screening of some common medicinal plants used in traditional medicine	School of Lifesciences, Marudupandiyar College, Thanjavur	Recent Advances in Translational Medicine	International Seminar
30th November, 2021	Participated		Department of Biotechnology, New Prince Shri Bhavani Arts and Science college, Chennai	Design Of Research For Students	State

30th November, 2021	Participated		Department of Microbiology, School of lifesciences, VISTAS, Chennai	Genomics - Changing the landscape of diagnostics	National
3 <sup>rd</sup> December 2021	Participated		Departments of Biotechnology, Microbiology and Food Processing Technology, Hindusthan College Of Arts And Science (Autonomous)	Innovation in Science- A Global Perspective	International
8 <sup>th</sup> December 2021	Participated		Department of Pharmaceutical Technology, Paavai Engineering College (Autonomous), Namakkal.	Natural Antioxidant - Superficial Pharmaceutical Agents for Human Diseases	National
16th & 17th December 2021.	Participated		Marian Star Centre, Department of Chemistry in association with Department of Microbiology St.Mary's College (Autonomous), Thoothukudi sponsored by the Department of Biotechnology, Ministry of Science and Technology, Govt. of India, New Delhi	"Impact of Nanobiotechnology in the Field of Medicine"	International
29 <sup>th</sup> & 30 <sup>th</sup> December 2021	Participated		Department of Botany, School of lifesciences, Bharadhidasan University, Tiruchirappalli	"Entrepreneurs hip Developmental Programme on Edible	National Workshop

				Mushroom Cultivation”	
1st 3 <sup>rd</sup> & 4 <sup>th</sup> February 2020	Participated		Department of Botany, V.O. Chidambaram College, Thoothukudi	Three days Entrepreneurship Awareness Camp	National
23th May 2020	Participated		V.O. Chidambaram College, Thoothukudi	Webinar on Application of Molecular markers in Plant Systematics	National
26 <sup>th</sup> May 2020	Participated	-	V.O. Chidambaram College, Thoothukudi	Webinar on Influence of Climate Change on Biodiversity Resources	National
30 <sup>th</sup> May 2020	Participated	-	Vivekanandha College of Arts & Sciences for women, Tiruchengode	Webinar on Recent Advancements in Bio & Nanomaterials	National
28 <sup>th</sup> May 2020	Participated	-	S. Vellaichamy Nadar College, Madurai	Webinar on Cancer care in the Covid-19 Era	National
06 <sup>th</sup> June 2020	Participated	-	Sri Kaliswari College (Autonomous), Sivakasi	Webinar on Career in Biotechnology: Challenges and Opportunities	National
06 <sup>th</sup> June 2020	Participated	-	Vinayaka Mission's Kirupananda Variyar Engineering College, Salem	Webinar on Perspectives on vaccine development for COVID-19: Race against	International

				time	
07 <sup>th</sup> June 2020	Participated	-	Vinayaka Mission's Kirupananda Variyar Engineering College, Salem	Webinar on Pharmaceutical Applications of Next Generation Sequencing in Drug Development	National
12 <sup>th</sup> June 2020	Participated	-	V.H.N.S.Nadar College, Virudhunagar	Webinar on Microbes - The great survivors 2020	National
3 <sup>rd</sup> June 2020	Participated	-	V.O. Chidambaram College, Thoothukudi	Webinar on Bioprospecting of Medicinal Plants: Challenges and Opportunities	National
11 <sup>th</sup> June 2020	Participated	-	Kandaswami Kandar's College, Velur, Namakkal	Webinar on Issues and challenges of climate change on Biodiversity	National
4 <sup>th</sup> June 2020	Participated	-	V.O. Chidambaram College, Thoothukudi	Webinar on Biodiversity Conservation with special reference to Agrobiodiversity	National
16 <sup>th</sup> June 2020	Participated	-	Holy Cross College, Nagercoil	Webinar on Dissemination of Knowledge on Medicinal Plants through Doctrine of	National

				Signatures	
12 <sup>th</sup> June 2020	Participated	-	V.O. Chidambaram College, Thoothukudi	Webinar on Natural pesticide for the betterment of Eco-system- Present Status and Future Prospects	National
28 <sup>th</sup> June 2020	Participated	-	EGSPJ Training Academy, EGS Pillay Engineering College, Nagapattinam	Webinar on Civil Service as a Career Option?	National
18 <sup>th</sup> June 2020	Participated	-	Association of Global Academicians and Researchers & Indian Biologists, Tamilnadu	Virtual International Conference on Advancements in research and Education	International
19 <sup>th</sup> June 2020	Participated	-	Chaudhary Bansi Lal University, Bhiwani, Haryana	Webinar on Diversity of Living organisms and its role in Ecosystem	International
06 <sup>th</sup> July 2020	Participated	-	Maruthupandiyar College, Thanjavur	Webinar on Understanding Biodiversity	National
06 <sup>th</sup> July 2020	Participated	-	VIVA College of Arts, Science & Commerce,	Webinar on Herb and Drug Interaction	National
25 <sup>th</sup> July 2020	Participated	-	KLE Society's Science and Commerce College, Maharashtra	Webinar on Novel Methods of Teaching and Learning	National



21 <sup>st</sup> November 2020	Participated	-	Ryan Publishers	Webinar on Microstrip Antennas and Scattering Parameters	International
28 <sup>th</sup> November 2020	Participated	-	Ryan Publishers	Webinar on How to be an Author of a Book Chapter	International
19 <sup>th</sup> December 2020	Participated	-	Ryan Publishers	Webinar on Writing synopsis for thesis and dissertation	International
13 <sup>th</sup> & 14 <sup>th</sup> December 2017	Participated		Department of Microbiology, Kamaraj College	Science Academies Lecture workshop on Emerging Trends in Life Sciences	National
22 <sup>nd</sup> & 23 <sup>rd</sup> December 2016	Abstract published	Pharmacological review of <i>Catharant hus roseus</i> (L) G. Don	Department of Microbiology, Kamaraj College	Emerging Infectious diseases and Curative Measures	National
22 <sup>nd</sup> & 23 <sup>rd</sup> December 2016	Abstract published	Antidiarrheal Activity of extracts from <i>Pergularia daemia</i>	Department of Microbiology, Kamaraj College	Emerging Infectious diseases and Curative Measures	National
22 <sup>nd</sup> & 23 <sup>rd</sup>	Abstract published	In vitro Antibacterial	Department of Microbiology, Kamaraj	Emerging Infectious diseases and	National

December 2016		Activity of <i>Apium graveolens</i> Leaf Extracts against Pathogenic Bacteria	College	Curative Measures	
	Abstract published	Evaluation of Antihyperlipidemic and Antioxidant activity properties of <i>Hygrophil i</i> leaves in alloxan induced diabetic rats.	Nehru Arts and Science College, Coimbatore, programme at <b>Malaysia</b> .	Interdisciplinary Research innovations in Computer Science, Biosciences and Electronics	International
30 <sup>th</sup> January 2015	Presented	Molecular docking of Phytochemical compounds of selected medicinal plants with virulent proteins of Lower respiratory tract pathogen <i>Acinetobacter</i>	M.R. Government Arts College, Mannargudi	Contemporary Molecular Techniques and their Potential Applications in Current Applied Biology	National

		<i>baumannii</i>			
20 <sup>th</sup> December 2014	Participated	-	Cape Young Biologists Association, Nagercoil	Environment and Bioresource management	National
February 06 - 08, 2014	Presented	Antibiotic sensitivity pattern and genetic variability studies of clinical isolates of lower respiratory pathogen <i>Acinetoba cter baumannii</i>	School of Chemical Sciences, North Maharashtra University	Global Opportunities for Latest Developments in Chemistry and Technology- 2014	Internation al
March 14, 2014	Presented	Isolation and molecular characteri zation of clinical isolates of <i>Acinetoba cter baumannii</i>		Newly Emerging Pathogens, Epidemic Diseases and their Management Challenges	State
14 <sup>th</sup> February 2014.	Presented	Phytoche mical and antimicrob ial screening of <i>Androgra phis paniculata</i>	Department of Microbiology, Annamalai University	Frontiers in Applied Microbiology	National

		against nosocomia l pathogen <i>Acinetoba cter baumannii</i>			
1 <sup>st</sup> and 2 <sup>nd</sup> March 2013	Participated	-	Department of Microbiology, M.R. Government Arts college, Mannargudi	Emerging Novel Avenues and Opportunities in Modern Biological Sciences	National
15 <sup>th</sup> and 16 <sup>th</sup> December , 2012.	Participated	-	Indian Science Congress Association, Coimbatore Chapter & Kongunadu Arts and Science college, Coimbatore	Science for Shaping the future of India	State
25 <sup>th</sup> June to 4 <sup>th</sup> July 2012.	Participated	-	Indian Institute of Technology Bombay	ISTE Workshop on “Introduction to Research Methodologies”	National
11 <sup>th</sup> and 12 <sup>th</sup> October, 2012.	Participated	-	Department of Chemistry, University of Kerala in association with Indian Association for Hydrogen Energy and Advanced Materials, at Kariyavattam Campus, Trivandrum	Workshop on “Characterizati on of Advanced Materials	National
3 <sup>rd</sup> & 4 <sup>th</sup> February, 2011	Participated	-	Department of Microbiology, Biotechnology, Biochemistry and Bioinformatics, Noorul	Environmental Monitoring and Sustainable Development	National

			Islam College of Arts and Science, Kumaracoil		
7 <sup>th</sup> March, 2011	Participated	-	Department of Biotechnology, Annai Velankanni College, Tholayavattam	Emerging Innovations in Biotechnology	National
9 <sup>th</sup> October 2006	Participated		Department of Microbiology, RVS College of Arts and Science Sulur, Coimbatore	Recent Innovations in Microbiology 2006	National

### Papers Published

Paper Title	Author(s)	Journal	Year	Volume	Issue	Page No.
Eco-friendly synthesis and characterization of silver nanoparticles from an endemic plant and their antibacterial potency - A sustainable approach	R. Rajalakshmi, N. Mukesh Babu, A. Doss, R.P. Praveen Pole, <b>T.P. Kumari Pushpa Rani</b> , V. Mary Kensa	Chemistry of Inorganic Materials ( <b>ELSEVIER</b> )	2024	4		1-7
Phytochemical screening and in vitro anti-inflammatory properties of <i>Jatropha maheshwarii</i> Subram. & Nayar – An endemic plant	R. Rajalakshmi , N. Mukeshbabu , A. Doss , R. Arul Priya , <b>T.P. Kumari Pushpa Rani</b> , R.P. Praveen Pole , S. Satheesh	Pharmacological Research - Natural Products ( <b>ELSEVIER</b> )	2024	4		1-8
Eco-friendly synthesized zinc oxide nanoparticles—an antibacterial agent.	R. Rajalakshmi, Doss A. <b>T.P. Kumari Pushpa Rani</b> , Bose Manikandan, G. Rajeswari, J. Aranganayaki	<i>Biomass Conversion and Biorefinery.</i>	2023	15	1	1013-1026
Antibiofilm,	P. Suresh, A.	<i>Biomass</i>	2023	14	17	1-11

antibacterial and antioxidant activity of biofabricated bimetallic (Ag-ZnO) nanoparticles from <i>Elephantopus scaber</i> L.	Doss,G. S. Anantha Selvi and <b>T. P. Kumari Pushpa Rani</b>	<i>Conversion and Biorefinery</i>				
A mini review on plant-mediated zinc oxide nanoparticles and their antibacterial potency.	A. Kavitha, A. Doss, R.P. Praveen Pole,R. Rajalakshmi, <b>T.P.Kumari Pushpa Rani</b> and P. Suresh	<i>Biocatalysis and Agricultural Biotechnology ( ELSEVIER)</i>	2023	48	2	1-
Synthesis and characterization of Cobalt oxide nanoparticles using <i>Memordica charantia</i> and its photocatalytic activity	S. Alwin David, A.Doss, R.P.Praveen Pole, <b>T.P. Kumari Pushpa Rani</b> , RPL. Reeshmi & R. Rajalakshmi	International Journal of NanoDimension (Web of Science)	2022	13	3	335 – 343
Review on green synthesis of metallic nanoparicles and their biological activities	<b>T.P. Kumari Pushpa Rani</b> , K.Affrin Nisha, M. Rabiya Begam & N.R.Sutha	International Journal of Current Science (UGC Care list)	2022	12	2	602 – 620
Phytochemical profiling and GC MS analysis of <i>Capparis zeylanica</i> Linn.	S.Sivagamasundari, S.P. Anand, <b>T.P. Kumari Pushpa Rani</b> , A. Doss & R.P.Praveen Pole	GIS Science Journal (UGC Care list Group II & Scopus)	2021	8	10	291- 302
Biological Properties of phycocolloids and polysaccharides from marine algae	<b>T.P. Kumari Pushpa Rani</b> & A.Doss	Journal of Maharaja Sayajirao University of Baroda (UGC Care Group I)	2021	55	1	1-5
A Review on Antimicrobial Activity of Medicinal Plant Extracts	<b>T.P. Kumari Pushpa Rani</b>	International Journal of Research Publication and Reviews	2021	2	6	142- 149

A Review of Medicinal Herbs with Anti-diabetic Activity	<b>T.P. Kumari Pushpa Rani &amp; A.Doss</b>	GIS Science Journal (UGC Care list Group II & Scopus)	2021	8	5	1884-1900
Evaluation of Antihyperlipidaemic and Antioxidant activity of <i>Astercantha longifolia</i> (Linn.)Nees and <i>Pergularia daemia</i> (Forsskal) Chiov.	R. Rajalakshmi, <b>T.P. Kumari Pushpa Rani,</b> A.Doss& S.P.Anand	Sumerianz Journal of Biotechnology	. 2020	3	12	134-138
Functional group analysis of <i>Andrographis paniculata</i> by FTIR spectrum	<b>T.P. Kumari Pushpa Rani&amp;A.Doss</b>	Research Journal of Pharmacology	2019	13	2	27-31
Phytochemical screening and GC-MS analysis of <i>Achyranthus aspera</i> Linn.	<b>T.P. Kumari Pushpa Rani&amp;A.Doss</b>	International Journal of Chemical Studies	2017	1	1	7-11
Phytochemical screening and GC-MS analysis of <i>Pergularia daemia</i> Forssk.) Chiov.	M.S.Rukashana, <b>T.P. Kumari Pushpa Rani&amp;A.Doss</b>	Asian Journal of Plant Science and Research	2017	7	1	9-15
Antibiotic sensitivity pattern against <i>Staphylococcus aureus</i> from raw bovine milk samples in and around Tuticorin district, Tamilnadu	A. Doss, <b>T.P. Kumari Pushpa Rani,M.</b> Vijayasanthi, M.S.Rukashana	Saudi Journal of Pathology and Microbiology	2016	1	1	1-3
Antibacterial evaluation of	A.Doss& <b>T.P. Kumari Pushpa</b>	Journal of Research in	2016	1	1	29-32

bioactive compounds of <i>Tridax procumbens</i> and <i>Cardiospermum halicabaccum</i>	<b>Rani</b>	Agriculture and Biology				
Identification and Properties of bioactive compounds from <i>Asteracantha longifolia</i> (L) Nees by GC-MS	A.Doss, <b>T.P. Kumari Pushpa Rani</b> , M.S.Rukshana, C.Kasthuri	Journal of Advancement in Medical and Life Sciences	2016	5	1	1-6
Purification and antibacterial activity of marine actinomycetes against human and fish pathogens	<b>T.P. Kumari Pushpa Rani</b> &A.Doss	Journal of Marine Science Research and Development	2016	6	-	215
Production, Purification and characterization of $\alpha$ -amylase from <i>Aspergillus japonicas</i> isolated in Tuticorin district, Tamilnadu	A.Doss, <b>T.P. Kumari Pushpa Rani</b> , M.S.Rukshana	Life Science Research	2016	1	8	38-42
GC MS Analysis and Antibacterial Activity of <i>Myristica fragrans</i> Seed Extracts against Lower Respiratory Tract Pathogen <i>Acinetobacter baumannii</i>	<b>T.P. Kumari Pushpa Rani</b> , S.K.Sundar and B. Vijayalakshmi Amma	Asian Journal of Pharmaceutical and Clinical Research	2014	7	3	126-129
Genetic Variability Studies of Clinical Isolates of Lower Respiratory Pathogen <i>Klebsiella</i>	<b>T.P. Kumari Pushpa Rani</b> , S.K.Sundar and B. Vijayalakshmi	International Journal of Pharmaceutical Sciences Review	2014	29	2	240-244



<i>pneumonia</i>	Amma	and Research				
<i>In silico</i> identification of drug targets of <i>Helicobacter pylori</i>	S K Sundar, S Shamya, <b>T.P. Kumari Pushpa Rani</b>	International Journal of Research in Engineering and Bioscience	2014	2	1	1-13
Antibiotic Sensitivity Pattern and Genetic Variability Studies of Clinical Isolates of Lower Respiratory Pathogen <i>Acinetobacter baumannii</i>	S.K.Sundar, <b>T.P. Kumari Pushpa Rani</b> , B.Vijayalakshmi M. Murugan	International Journal of Pharma and Bio Sciences	2014	5	3	744-751
Isolation and 16S rRNA Sequencing of Clinical Isolates of <i>Acinetobacter baumannii</i>	S.K.Sundar, <b>T.P. Kumari Pushpa Rani</b> , B.Vijayalakshmi M. Murugan	International Journal of Current Microbiology and Applied Sciences	2014	3	5	842-846
A Short review of pathogenesis and virulence factors of lower respiratory tract pathogen <i>Acinetobacter baumannii</i>	<b>T.P. Kumari Pushpa Rani</b> ,S K Sundar, &S Shamya	Wide Spectrum	2013	1	12	15-19
Phytochemical and Antimicrobial Screening of <i>Andrographis paniculata</i> against Nosocomial pathogen <i>Acinetobacter baumannii</i>	<b>T.P. Kumari Pushpa Rani</b> ,B. Vijayalakshmi Amma, S.K.Sundar	Journal of Basic and Applied Biology	2013	7	1	276-285

### Book Chapter Published

Date	Book Title	Author(s)	ISBN Code	Editions	Publisher
2022	Fronties in Nanotechnology	R. Rajalakshmi, <b>T. P. Kumari Pushpa Rani</b> , A. Doss, R. P. Praveen Pole, P.Suresh	978-93-91681-74-6	Dr. Vishnu Kiran Manam  Dr. Aruna Kumari Nakkella  Prof. Dr. Jayesh R.Gujarathi	Bharti Publications, New Delhi
2022	Plastic waste management: Turning changes into opportunities	P.Suresh, <b>T. P. Kumari Pushpa Rani</b> , R. P. Praveen Pole, R. Rajalakshmi & A. Doss.	978-93-91681-06-7	Dr. Vishnu Kiran Manam  Dr. Aruna Kumari Nakkella	Bharti Publications, New Delhi
2018	Medicinal plants and its utilization in India	A.Doss, M.S.Rushana, <b>T.P.Kumari Pushpa Rani</b> ,	978-93-86071-82-8	V.R.Mohan, A.Doss, P.Tresina Soris	Astral Publications, New Delhi
2018	Ethnomedicinal plants – A Biodiversity Treasure	A.Doss <b>T.P.Kumari Pushpa Rani</b> ,	978-93-86071-82-8	V.R.Mohan, A.Doss, P.Tresina Soris	Astral Publications, New Delhi
2018	Ethnomedicinal plants with therapeutic properties	A.Doss, <b>T.P.Kumari Pushpa Rani</b>	978-17-71887-09-0	V.R.Mohan, A.Doss, P.Tresina Soris	Apple Academic Press, Canada
2018	Ethnomedicinal plants with therapeutic properties	A.Doss, <b>T.P.Kumari Pushpa Rani</b> , M.S.Rukshana	978-17-71887-	V.R.Mohan, A.Doss, P.Tresina	Apple Academic Press,

			09-0	Soris	Canada
2017	Aquaculture development in Recent Trends	A.Doss, <b>T.P.Kumari Pushpa Rani</b> , M.S.Rushana	978-93-5267-526-5	G.Chelladurai	PG & Research Department of Zoology, Kamaraj College
2017	Aquaculture development in Recent Trends	A.Doss, M.S.Rushana, <b>T.P.Kumari Pushpa Rani</b> , V.R.Mohan	978-93-5267-526-5	G.Chelladurai	PG & Research Department of Zoology, Kamaraj College

### Patent Published

Application No.	Title	Inventor	Publication Date	Type
202141060443 A	A Process For The Preparation Of A Novel Chemically Modified Regenerated Cellulose And Fibrin Biocomposite Incorporated With Silver Nanoparticles	T.P. Kumari Pushpa Rani <i>et al</i>	04.02.2022	India
202241015148 A	Innovative recovery of value added products from human urine	T.P. Kumari Pushpa Rani <i>et al</i>	08.04.2022	India

### Additional Qualification

1. Certificate Course on Bionanotechnology
2. Certificate Course on MS Office

### 16SrRNA Sequences submitted to GenBank

- |                                   |   |                         |
|-----------------------------------|---|-------------------------|
| 1. <i>Acinetobacter baumannii</i> | - | KJ767716 (Accession No) |
| 2. <i>Acinetobacter baumannii</i> | - | KJ767717                |
| 3. <i>Acinetobacter baumannii</i> | - | KJ804138                |
| 4. <i>Klebsiella pneumoniae</i>   | - | KM878579                |

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