

Name : Dr.K.Rajathi

Designation : Professor

Department : Biochemistry

Qualification : M.Sc., M.Phil., Ph.D

Experience : Teaching: 14 Years 8 months Industry: 6 months Research: 14 years

Area of Specialization(s) : Clinical toxicology, Cancer Biology, Nanobiotechnology

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Academic Qualifications

Degree	Branch	Institution / University Name	Year of Graduation
Ph. D.	Biochemistry	Dr. N.G.P. Arts and Science College, Coimbatore	2018
M. Phil.	Biochemistry	Dr. N.G.P. Arts and Science College, Coimbatore	2008
M.Sc.,	Biochemistry	Avinashilingam Deemed University	2006
B.Sc.,	Biochemistry	Kongunadu Arts and Science College	2004

Additional Qualifications

Diploma / Vocational / Certification	Area of Specialization	Institution / University / Agency Name	Year
Online Certificate	Biomedical Nanotechnology	NPTEL	2017
Online Certificate	Biology – Evolution, Natural Selection and DNA.	Alison	2018
Online Certificate	Functional Genomics	NPTEL	2019
ARPIT	Annual Refresher Programme in Teaching and Teaching in Higher Education	UGC MHRD	2020

Online Certificate	Diploma in Human Nutrition	Alison	2020
7 days online Course	Aspirants of CSIR-NET in Lifesciences	PG and Research Department of Zoology, Jamal Mohammed College, Trichy.	2020
Three Week Online Course	TTT-Teach the Teacher using Flipped Classroom Approach	TSCER Thakur Shyamanarayan College of Education & Research	2020
Certificate Course	Biomedical Nanotechnology	Indian Academic Researchers Association	2020
ARPIT	Annual Refresher Programme in Leadership and Governance in Higher Education	UGC MHRD	2021
Course	Human Health and Diseases	Infosys Springboard	2022

Projects

Completed

Project Title	Agency	Amount	Duration
Biomimetic synthesis, characterization of synthesized silver nanoparticles and the cytotoxic inhibition of TNF-alpha induced NF-kB nuclear translocation in prostate cancer cell line (PC-3)	UGC-Minor Research Project	3,50,000	2014 – 2016
Plant mediated synthesis of silver nanoparticle and apoptotic inhibition of TNF- α in prostate cancer PC-3 cell line	Seed Money Dr.NGPASC	5,000	2016-2017
Detection of Dopamine using Carboxyl Functionalized CdTe Quantum DOTS	Seed Money Dr.NGPASC	5,000	2017-2018
Chitosan Fucoidan complex coated silver nanoparticles, cytotoxic potentiation and STAT 3 induced apoptosis in prostate cancer PC 3	Seed Money Dr.NGPASC	5,000	2018-2019

cell line			
Effect of Fucoïdan mediated zinc oxide nanoparticle in the cytotoxic induction of TRAIL induced apoptosis in prostate cancer PC3 cell line	TNSCST-Student Project Scheme	7,500	2018-2019
Design and implementation of intelligent biosensors, personal defense devices in smart watches for women Sexual harassment	TNSCST- Student Project Scheme	7500	2019-2020
Synthesis and Characterization of Starch Based Bioplastic from Elephant Foot Yam and its Application in Medical Industry	Seed Money received from host institution	5,000	2020-2021
Synthesis and Characterization of Composite Bioplastic from ElephantFoot Yam using CaCO ₃	Seed Money received from host institution	5,000	2020-2021
Synthesis of Copper Oxide Nanoparticles using green tea leaf as an effective antimicrobial activity against urinary tract infection and production of organic intimate wipes as its treatment(BS-732)	TNSCST- Student Project Scheme	7500	2021-2022
Design and Implementation of IoT technology in Vehicle for accident detection and emergency vehicle tracking (EEE-0766)	TNSCST- Student Project Scheme	7500	2021-2022
Casein Extraction From Spoiled Milk and Its Role as a Viable Substitute For Conventional Plastics	Seed Money received from host institution	5000	2021-2022

Research Guidance

Programme	No. of Scholars	
	Completed	Pursuing
Ph. D.	-	2
M. Phil.	3	1

Book Publication

S.No.	Month & Year	Title	Authors	Publisher	ISBN
1.	February 2023	Biopolymeric Nano materials in Cancer Treatment: A Mechanistic Approach	Rajathi K. Indhumathi T. Kannikaparameswari N	LAP LAMBERT Academic Publishing	978-620-6- 14597-4
2.	March 2023	Karyotyping- Morphological Assessment	Indhumathi T Rajathi K Kannikaparameswari N	LAP LAMBERT Academic Publishing	978-620-6- 15153-1
3.	April 2023	Development of Polyherbal Formulation for Antidiabetic activity	Kannikaparameswari N Rajathi K. Indhumathi T.	LAP LAMBERT Academic Publishing	978-620-6- 14700-8

Patent (National/International)

S.No.	Title of the Patent	Patent Filled/ Granted	Patent Number	Issuing patent agency
1.	Synthesis of copper oxide nanoparticles using green tea leaf as an effective antimicrobial activity against urinary tract infection and production of organic intimate wipes as its treatment	Patent Filled	TEMP/E-1/17033/2023	Government of India
2.	Design and implementation of IOT Technology for Accident Detection and Emergency Vehicle Tracking	Patent Filled	TEMP/E-1/17015/2023- CHE	Government of India

Research Publications (Indexed)

International

- K.Rajathi, K.B.Leneey Green, **Design and Implementation of Intelligent Biosensors, Personal defence devices in smart watch for women and sexual harassment**, World Journal of Advanced Engineering Technology and Sciences, 2023, Vol.8, Issue.1, 128-131.
- K.B.Leneey Green, K.Rasika, K.Rajathi, **Analysis of Calciferol and Elements in Aqueous Extract of Muntigia Calabura Fruit Using LC-MS/MS and ICPMS Techniques**, Indo American Journal of Pharmaceutical Sciences, 2023,10(03),290-293. ISSN 2349-7750.
- Rajathi K, K.B.Leneeygreen, **Understanding Human Autoimmune Diseases and its Serology tests using ELISA Technique**, World Journal of Pharmaceutical and Life Sciences, 2023, Vol.10, Issue 2,157-163.
- Rajathi K, M.Muthubharathi,K.B.Leneeygreen, **Effect of Fucoidan Mediated Zinc oxide nanoparticles on the TRAIL induced Apoptosis in Prostate Cancer PC-3 Cell line**, JETIR, April 2021,Vol.8(4): 391-397.
- Ritty Joseph, K.B.Leneeygreen,Rajathi K,**Synthesis and Characterization of Starch based bioplastic using Plectranthus rotundifolius**, International Journal of Research Publications and Reviews, Volume2 (7),2021 P.No 459-465.
- S.Srijani Devi, K.Rajathi,**Studies on alpha-amylase inhibitory potentials of polyphenols in Mangifera indica Linn and Terminalia Bellirica**, Aegaeum Journal, Volume IX,Issue VI, June 2021, (UGC Care-II).
- Isvarya M, Bincy T Mathew, Nithish Kumar V, Rajathi K, **Synthesis and Characterization of Starch Based Bioplastic from Elephant Foot Yam and its Application in Medical Industry**, Journal of Emerging Technologies and Innovative Research (JETIR) ,July 2021,Vol 8(7), ISSN; 2349-5162, b- 39-b47, IF-7.95(UGC Indexed)
- Hari Prasath K, Kaviya M, Deepika P, Rajathi K, **Synthesis and Characterization of Composite Bioplastic from Elephant Foot Yam using CaCO₃**, Journal of Emerging Technologies and Innovative Research (JETIR) ,July 2021,Vol 8(7), ISSN; 2349-5162, 391-398, IF-7.95(UGC Indexed)
- Rajathi K, K.B.Leneeygreen, S.Suja, **Mechanism Underlying the inhibitory effect of Biosynthesized Silver Nanoparticle on TNF- α induced NF- κ B Nuclear Translocation in Prostate Cancer Cells**, International Journal of Pharmaceutical Sciences and Nanotechnology,Vol.14(2),March-April 2021,5396-5405.
- Rajathi K , K.B.Leneeygreen, Ritty Joseph,**A study on antibacterial and antigastric cancer activity of Sechium edule (Chayote) fruit extracts against HGC-27 cell line**, International Journal of All Research Education and Scientific Methods (IJARESM),Vol. 8(7), July 2020: 69-72.
- K.B.Leneeygreen, Rajathi K, **The World Invisible Murderer: Review on Covid-19**, IJSART,

Vol.6(5), May 2020:206-210.

- Jithendran R., Mouli Krishna D., Vinoth Kumar P., Deepika T., Nanthini Priya S., Deepika S, **Rajathi K** and Manjula K, ***In vitro* Antidiabetic and Antioxidant activities of the Methanolic Extract of *Alpinia Purpurata* Stem**, International Journal of Recent Scientific Research, Vol. 10, Issue, 01(B), pp. 30285-30289, January, 2019.
- K.Rajathi, S.Suja, **Biomimetic synthesis, characterization and evaluation of antioxidant, antimicrobial efficacy of silver nanoparticles using *Anredera cordifolia* leaf extract**, Asian Journal of Pharmaceutical and Clinical Research, Vol 10.,No. 4,pp.1-6, April 2017., ISSN: 2455-3891, (Indexed in SCOPUS and UGC).
- K.Rajathi, N.Kannikaparameswari, S.Suja, ***In vitro* cytotoxicity testing of silver nanoparticle of *Anredera cordifolia* in prostate cancer cells (PC-3)**, European Journal of Pharmaceutical and Medical Research, Vol.4 No.1, pp. 401-407,2017, ISSN : 2394-3211, (Indexed in UGC).
- K.Rajathi, S.Suja, **Molecular mechanism underlying quercetin induced apoptosis by insilico analysis and in Prostate cancer PC-3 cells**, International Journal of Pharma and Biosciences, Vol. 8, No. 1, pp. B 463-469, January – March 2017, ISSN 0975-6299, (Indexed in SCOPUS and ELSEVIER).
- K.Rajathi, S.Suja, **Exploration of antimutagenicity of plant mediated synthesis of silver nanoparticles using the plant extract *Anredera cordifolia***, World Journal of Pharmaceutical Research, Vol.5, No. 10, pp. 690-700, 2016, ISSN: 2277–7105, (Indexed in UGC).
- Jithendran R., Mouli Krishna D., Vinoth Kumar P., Deepika T., Nanthini Priya S., Deepika S, Rajathi K, Manjula K, ***In vitro* Antidiabetic and Antioxidant activities of the Methanolic Extract of *AlpiniaPurpurata* Stem**, International Journal of Recent Scientific Research Research, Vol. 10, No. 01(B), pp. 30285-30289, January 2019., ISSN 0976-3031, (Indexed in UGC Approved, THOMSON REUTERS).
- K.Rajathi, S.Suja, N.Kannikaparameswari, **Synthesis and Characterization Of Silver Nanoparticles Using *Basella Rubra***, International Journal of Chemistry and Pharmaceutical Science, Vol. 3 No.4, pp. 1431–1434, April 2015, ISSN: 2321-3132 (Indexed in SCOPUS, Google Scholar).
- Rajathi.K, Dr.S.Suja, T.Indhumathi, **Protective role of *Plectranthus amboinicus* in aluminium-induced neurotoxicity**, International Journal of Medicine and Pharmaceutical Sciences, Vol. 3, No.1, pp. 13-20, March 2013, ISSN: 2250–0049, (Indexed in Scopus,pp. Transtellar Research agency, Index Copernicus).
- Rajathi.K, Dr.S.Suja, T.Indhumathi, **Antiulcer activity of *Premna serretifolia* against aspirin induced gastric ulcer model**, International Research Journal of Pharmacy, Vol. 4 No.6, pp. 171-

173: June 2013, ISSN 2230-8407, (Indexed in ELSEVIER).

- Indhumathi.T, Rajathi.K, **A study on synthesis of silver nanoparticles from *Murraya Koengii* leaf and its Antifungal activity**, International Journal of Drug development and Research, Vol. 5, No.3, July-September 2013, ISSN NO. 0975-9344, (Indexed in Scopus, Google scholar, Scimago, RG, IndexCopernicus).
- N.Abirami, V.Shanmuga Raju, K.Rajathi, A.Mahalakshmi Priya, **Antibacterial potential and GC-MS analysis of aqueous and ethanolic extracts of *Asteracantha longifolia* and *Andrographis paniculata***, Asian Journal of Microbiology, Biotechnology & Environmental Sciences, Vol.11, No.3, pp..577-581, 2009, ISSN: 0972-3005, (Indexed in Scopus).
- Manjusha G.V, Rajathi K, J.K Mini Alphonse, Meera K.S, **Antioxidant Potential and Antimicrobial activity of *Andrographis paniculata* and *Tinospora cordifolia* against pathogenic organisms**, Journal of Pharmacy Research, Vol. 4, No.2,452-455, February 2011, ISSN: 0974-6943, (Indexed in UGC approved, Science direct).
- Rajathi.K, S.Suja,T.Indhumathi, N.Kannikaparameswari, **Synthesis of silver nanoparticles using *Ocimum kilimandscharium guerke* and evaluation of its antimicrobial activity**, Scrutiny International Journal of Microbiology and Bio-Techniques(SIJR-MBT) Vol 1, No.4,P.No.37-42, October 2014, ISSN 2349 – 0101,(Indexed in DRJI, Advanced Science Indexed, Google scholar).
- N.Abirami, V.Shanmuga Raju,A. Mahalakshmi Priya, Rajathi.K, ***In vitro* Hepatoprotective and antioxidant activities of the leaf ethanolic and aqueous extracts of *Asteracantha longifolia* and *Andrographis paniculata* against lead acetate induced toxicity**, Biosciences, Biotechnology Research Asia, Vol.6, No.1,pp.No:341-350, 2009, ISSN: 0973-1245, (Indexed in UGC).
- Meera K.S, Dr.G.Sudha, Rajathi .K, ManjushaG.V, **Antidiabetic effect of aqueous extract of *Hypsizygus ulmarius* on Streptozotocin- Nicotinamide induced diabetic rats**, Asian Journal of Pharmaceutical and Biological Research, Vol. 1, No.2, pp.151-157, Apr-Jun 2011,ISSN: 2231 2218,(Indexed in Research gate).

National

- V.Shanmuga raju, P. Chidambararajan, N. Abirami,K. Rajathi, **Antibiogram and GC analysis of *Euphorbia hirta* leaf extract**, Ancient Science of life, Vol.no.XXVI, No.4,pp.1-3, April,May,June,2007, ISSN: Print -0257-7941,(Indexed in Web of Science).
- N.Abirami, V.Shanmuga Raju, K.Rajathi, **Effect of *Semecarpus anacardium* against lead toxic rats**, Ancient Science of life, Vol. XXVII No.2, pp.24-27, October, November, December, 2007, ISSN: Print -0257-7941,(Indexed in Web of Science).

- T.Indhumathi, Rajathi.K, **Preliminary phytochemical screening and antimicrobial activity of *Spermacoce hispida.L***, Research journal of biological sciences April- June 2011, pp. 46- 50, ISSN: 1993-6087, (Indexed in Copernicus).
- Rajathi.K, **Ethical issues in conducting Research**, Two – day International conference On “quality changes through research- experiences, expectations and enhancement 14th & 15th,”march, 2014, ISBN: 978-81-920808-5-7.
- T.Indhumathi, K.Rajathi, **Opportunities in higher education**, National conference on Higher Education in India: Changes and Challenges, Association of Principals of Colleges of Bharathiar University, pp.149-153, ISBN.No. 978-81-920808-3-3.

Conference Proceedings

- Rajathi Krishnasamy, Divya Ganapathi, Nandita Ravichandran, Pavithra Periyasamy, Pradheep Gandhi, Santhiya Rajamani, Vidhya Ganesan and Yokesh Shanmugam, Comparison of Vermicompost Characteristics Produced from Vegetable and Fish Wastes and its Combined Effects with Inorganic Fertilizers on the Growth and Yield Attributes of Okra Plant (*Abelmoschus Esculentus*), National Conference On Futuristic Approaches In Transformation Of Bioscience Research (FATBR-2020), Pg. 27 - FATBR-2020-BC-14. ISBN-978-81-943063-7-6
- K.B.Leneey green, Ritty Joseph and K.Rajathi, Herbal Mouth Wash- A Possible Remedy For Oral Cancer , NATIONAL CONFERENCE ON FUTURISTIC APPROACHES IN TRANSFORMATION OF BIOSCIENCE RESEARCH (FATBR-2020),Pg. 36 - FATBR-2020-BC-31. ISBN-978-81-943063-7-6
- A review on weather monitoring system using IOT in agriculture, National Conference on AI and IoT for Agriculture Innovation and Environment Sustainability (NCAIAIES-22), Dr.N.G.P.Arts and Science College ,ISBN-978-81-957709-5-3
- To prevent blister blight in *Camellia sinensis* using IOT method, National Conference on AI and IoT for Agriculture Innovation and Environment Sustainability (NCAIAIES-22), Dr.N.G.P.Arts and Science College ,ISBN-978-81-957709-5-3.
- A Review on Nano-biofertilizers For Plant Growth: A Bio-emerging Strategy, National Conference on Interdisciplinary Approaches on Dynamics of Bioscience Research (IADBR - 2023), 28-Mar-23.

Consultancy

Nature of Consultancy	Client	Amount	Completion Status
Antimicrobial activity	Government Arts College, Coimbatore	Rs. 1,600	Completed
Antioxidant, Antimicrobial Activity	VJ Biotech	35,400	Completed
Antioxidant activity	Kongunadu Arts and Science College	5000	Completed

Presentations in Conference

- **A Review on Nano-biofertilizers For Plant Growth: A Bio-emerging Strategy**, National Conference on Interdisciplinary Approaches on Dynamics of Bioscience Research (IADBR - 2023), 28-Mar-23.
- **Cytotoxic potentiation and STAT 3 induced apoptosis in Prostate cancer PC 3 Cell line**, International Conference on Confluence of Science and Technology (ICCST), Bharathidasan College of Arts and Science, 10-Oct-22.
- **Protective role of *Plectranthus amboinicus* in aluminium induced neurotoxicity**, International level seminar on Emerging trends in Life Sciences, Navarasam Arts and Science College for Women, Erode, 18-Aug-11
- **Prevalence of Leptospirosis among the patients attending private medical practitioners in Hosur**, National Symposium on Communicable Diseases and its control measures, Department of Microbiology, Dr.N.G.P Arts and Science College, Coimbatore, August 4-Aug-10 to 5-Aug-10.
- **Antioxidant activity of leaf ethanolic and aqueous extracts of *Asteracantha longifolia* and *Andrographis paniculata***, UGC sponsored National level seminar on Emerging trends in plant Biotechnology, Government Arts College, Coimbatore, 4-Feb-10 to 5- Feb10.
- **Antibacterial activity of *Asteracantha longifolia* and *Andrographis paniculata***, National conference on Advance trends in Biotechnology, Dr.N.G.P Arts and Science College, Coimbatore, 18-Dec-09 to 19-Dec-09.
- **Effect of *Semecarpus anacardium* against lead toxic rats**, ICMR Sponsored National Cancer Congress: Genetics, Diagnosis and Therapy, Department of Biochemistry and CLT, Dr. N.G.P Arts and Science College, Coimbatore, 20-Aug-09 to 21- Aug-09.
- **Antibacterial activity**, International Seminar on Inculcating Innovations, Department of Biochemistry, Dr.N.G.P Arts and Science College, 6-Mar-09.
- **Biosynthesis of silver nanoparticle in *Ocimum kilimandscharium guerke* and its antibacterial activity**, National level seminar on Modern Scenario in Nanomedicine, Department of Biochemistry and CLT, Dr.N.G.P Arts and Science College, Coimbatore, 22-Sep-11.
- **Opportunities in higher education**, National Conference on HIGHER EDUCATION IN INDIA:

Changes and Challenges, Association of Principals of Bharathiar University, Coimbatore, 09-Feb-13.

- **Synthesis and Characterization of Silver Nanoparticles using *Basella rubra linn* and their *Invitro*Cytotoxic Studies**, National Conference on Phytodrugs and Human Healthcare, Department of Biotechnology, Anna University Regional Centre, Coimbatore on 22-Aug-13 to 23-Aug-13.
- **Synthesis Of Silver Nanoparticles Using *Ocimum Kilimandscharicum Guerke* And Evaluation Of Its Antimicrobial Activity**, UGC Sponsored National Conference on Current Approaches and Challenges in Nanomaterial and Nanomedicine, Rajah Serfoji Government College, Thanjavur, 29- Aug-13 to 30-Aug-13.
- **Protective role of *Plectranthus amboinicus* in aluminium-induced neurotoxicity**, National Conference on Recent trends in Medicinal Plants and their Products, Department of Biochemistry and CLT, Dr.N.G.P Arts and Science College, 18- Sep-13.
- **Ethical issues in conducting Research**, Two – day international conference On “quality changes through research- experiences, expectations and Enhancement, Dr.N.G.P B.Ed Educational Institutions, Coimbatore, 14-Mar-14 to 15-Mar-14.
- **Synthesis and Characterization of Silver Nanoparticles using *Basella rubra linn* and their *Invitro*Cytotoxic Studies**, National Conference on Phytodrugs and human health care, Department of Biotechnology, Anna University, Coimbatore, 23-Aug-13.

Participation in Conference

International

- International Seminar on Nutraceuticals and its Applications, Department of Biochemistry, Kongunadu Arts and Science College, 06-Mar-18.
- Pandemic Pedagogy in Higher Education of Covid-19, Department of Education, Bharathiar University, Coimbatore on 13-May-20.
- Indian Rural Public Health and Non-Communicable Disease, KMCH Research Foundation, Kovai Medical Center and Hospital, Coimbatore, 06-Apr-19.

National

- Bioentrepreneurship summit 2010, Dr.N.G.P arts and Science College, Coimbatore, 18- Mar-10.
- DBT sponsored National Level Technical workshop on Intellectual Property Rights, PG and Research Department of Microbiology, Hindustan College of Arts and Science, 20-Sep-18.
- Outdoor Leadership Skill Development Programme, Brainwave Business Solutions, Coimbatore, 26-Sep-2018.

Participation in Seminars

- DRDO Sponsored National Level Seminar The Applications of chromatography for bioscience explorations related to defense research, Dr. G.R. Damodaran College of Science, 05-Dec-12 to 07-dec-12.
- Online seminar on “Research & Innovation Driven, IPR & Patent Filing” conducted by Dr. T. Thimmaiah Research & Innovation Council in association with IIC on 18.11.2020.

Participation in Webinars

- Intellectual Property management strategies for Start-ups” conducted during Celebration of Innovation Week organized by Patent Information Centre, Tamil Nadu State Council for Science and Technology, Chennai in collaboration with Cell for IPR Promotion and Management, New Delhi, 12-01-22.
- Disease Diagnosis and Therapeutics organized by the Department of Microbial Biotechnology, Bharathiar University, Coimbatore during March 24 & 25, 2021.
- Orientation on National Education Policy (NEP) (Innovation & Entrepreneurship) organized by B V Raju Institute of Technology, 29-Nov-20.
- Scope of Entrepreneurship Development in Aquaculture and Fisheries conducted by IDP-Cell and College of Fisheries, GADVASU, Ludhiana, 29-Dec-20.
- Antimicrobial peptides: An Emerging class of therapeutic agents, PG and Research Department of Zoology, Chikkaiah Naicker College, Erode-04, 01-Nov-20.
- Therapeutic applications of Plant based inorganic nanoparticles: Current status and future perspectives, PG and Research Department of Zoology, Chikkaiah Naicker College, Erode-04, 29-Jul-20.
- Molecular Diagnostics of Infectious Diseases – An Introduction held on 3rd July 2020, organized by Department of Zoology, Michael Job College of Arts and Science for Women Sulur, Coimbatore, 641103.
- Facts and Perspectives of Integrative Biology, Department of Biotechnology, Sri Ramakrishna College of Arts and Science (Autonomous), Coimbatore, 02-Jun-20 to 04-Jun-20.
- Conquering the Invisible Enemy: Strategies for Cooperatives in the Pandemic World, Department of Cooperation, Sri Ramakrishna Mission Vidyalaya College of Arts and Science, Coimbatore on 22-May-20.
- Functional Nanobiomaterials in Biomedical Field Speaker : Dr. Prabir K. Patra Professor and Founding Chair, Department of Biomedical Engineering, University of Bridgeport, USA held on 1st June 2020 Organized by Dept. Botany & Biotechnology, St. Pious X Degree & PG College for Women Snehapuri Colony, Nacharam, Hyderabad. Affiliated to Osmania University.
- Business Opportunities using Local Resources and Government Support System”, PG and Research Department of Biochemistry, Bharathidasan College of Arts and Science, Erode, Tamil Nadu on 15th May 2020.

- Ageing and Health: New Initiatives, School of Life Sciences, Mizoram University, Aizawl, on 15-May-20.
- Bioscience for Enriching Human Life” organized by the Department of Biochemistry & Microbiology, Sri Ramakrishna College of Arts & Science for Women, Coimbatore from 14.05.2020 to 17.05.2020 .
- Web Series Programme on COVID-19 Virus” Awareness Programme on 17 th May 2020 (Sunday) organized by Nature Science Foundation, Coimbatore, Tamil Nadu, India.
- Creating Digital Brochures and Certificates, Bharathiar School of Management and Entrepreneur Development, Bharathiar University 15-May-20.
- How to diagnose Novel Corona Virus (COVID-19) by Crescent Innovation and Incubation Council (CIIC).

Participation in Workshop

- SPSS, Centre for Research, Dr.N.G.P Arts and Science College, Coimbatore, 13- Mar-10.
- Herbal drug standardization using HPLC and HPTLC, KMCH College of Pharmacy, 19- Nov-10.
- Basic Bioinformatics tools and databases, Sai's Biosciences Research Institute Pvt Ltd, Coimbatore, 27-Nov-10 to 28- Nov-10.
- Molecular techniques, Department of Biochemistry and CLT, Dr. N.G.P Arts and Science College, Coimbatore, 7-Feb-11 to 8-February-11.
- Organic Chemistry Laboratory, Karunya University, Coimbatore, 5-Sep-12.
- Medical Textiles, SITRA, Coimbatore, 09-Jan-13.
- Intellectual Property Rights, Bharathiar University, Coimbatore, 01-Aug-13.
- DNA amplification and Gene expression analysis, Department of Biotechnology, Kongunadu Arts and Science College, 06-Sep-16.
- Quality Enhancement in HEIs by the effectiveness of academic and administrative audit issues and challenges, SNR Sons College, 21-Oct-16 to 22-Oct-16.
- Analysis of Spectra, Center for Research, Dr.N.G.P Arts and Science College, 30-Jan-17.
- Insights in Life science, Department of Biochemistry, Bharathiar University, 22-Jan-18 to 24-Jan-18.
- Outdoor Leadership Skill Development Programme, Brainwave Business Solutions, Coimbatore, 26-Sep-18.
- Western Blotting Techniques, Department of Biochemistry, PSG College of Arts and Science from 15 –Feb-19 to 16-Feb-19.
- Rural immersion – Community Engagement, Mahatma Gandhi national Council for Rural Education and Dr. N.G.P. Arts and Science College, Coimbatore, 21-Sep-19.
- Applied Bioinformatics-Techniques, and Tasks, Sub Distributed Bioinformatics Centre and National Facility for Marine Cyanobacteria, Department of Marine Biotechnology, School of Marine Sciences, Bharathidasan University, Tiruchirapalli, 18-Feb-20 to 19- Feb-20.

- A Seven-Day International Workshop on Reinforcement of Quality Education, Internal Quality Assurance Cell (IQAC) of Vellalar College for Women (Autonomous), Erode, 26-Jul-20-02-Jul-20.
- Copyrights in India, Turnip Innovations, 20-Nov-20.
- Five days online hands-on workshop on “Computer-Aided Drug Design using Medicinal Plants & Nutraceuticals (CADDMPN’23)” On 6 to 10th March 2023, Organised by, Iyarvi Research Center for Bioinformatics (IRCB), Gobichettipalayam, Erode – 638 452.

Participation in Orientation Programme / Short Term Courses

- Undergone a mini project entitled "Prevalence of Leptospirosis among the patients attending private medical practitioners in Hosur Institute of Vector Control and Zoonoses, Hosur, India for two months in 2005.
- Refresher Course on Teaching and Teaching in Higher Education (ARPIT 2020 UGC-MHRD), NPTEL SWAYAM, 01-Sep-19 to 15-01-20
- Refresher Course on Leadership and Governance in Higher Education (ARPIT 2021 UGC-MHRD), NPTEL SWAYAM, 01-Sep-19 to 15-01-20
- Participated in the CSIR-Summer Research Training Programme (ONLINE) 2020 at CSIR-Indian Institute of Toxicology Research, Lucknow, held during June – August, 2020 and successfully completed the programme.
- One Week short Term Course on Advanced Energy Materials (Sponsored by TEQIP-III), Dr. B. R. Ambedkar National Institute of Technology, Jalandhar, 12-Oct-20-16-Oct-20.
- One Week Online Research Orientation Programme, M.M. Institute of Computer Technology and Business Management, Maharishi Markendeshwar (Deemed to be University), Mullana, 26-Oct-20 to 31-Oct-20.
- Institution's Innovation Council (IIC) of MHRD's Innovation Cell, New Delhi to promote Innovation, IPR, Entrepreneurship, and Start-ups among HEIs from 28-Apr-20 to 22-May-20 during COVID-19 nationwide lockdown.
- Innovation Ambassador training (Advanced Level) conducted by MoE's Innovation Cell & AICTE during the period from 30th June - 30th July 2021 in online mode.
- 10 days FIP Online Short term Course “Biostatistics and R Programming” by Rathinavel Subramaniam College of Arts and Science from 09.08.2021-14.08.2021 and 16.08.2021-19.08.2021

Participation in Faculty Development Programme

- RET species, Department of Botany, P.S.G. College of Arts and Science, Coimbatore.
- UGC-CPE Sponsored Faculty Development Programme, Internal Quality Assurance Cell (IQAC), Kongunadu Arts and Science College, Coimbatore-29, 24-March-16.
- Intellectual Property Rights: Issues & Challenges, Department of Biochemistry, PSG College of Arts and Science, Coimbatore, 02-Sep-16.

- Quality Initiatives in Higher Education, Dr. N.G.P. Arts and Science College, Coimbatore, 3-Dec-18 to 9-Dec-18.
- NAAC Revised Accreditation Frame Work and OBE Assessment Methodology, Dr. N.G.P. Arts and Science College, Coimbatore, 27-May-19 to 02-Jun-19.
- One week FDP Programme on QUALITY INITIATIVES IN HIGHER EDUCATION, organized by Consortium of Colleges through Online (Google Meet) from April 13 - 20, 2020.
- Two days FDP on Updates and Upgrades in Education and Research, PG and Research Department of Biochemistry, Sacred Heart College, Vellore, 04-Sep-20 to 05-Sep-20.
- AICTE Training And Learning (ATAL) Academy Online FDP on "Synthetic Biology, Bharathiar University, 14-Dec-20 to 18-Dec-20.
- National Level Virtual faculty Development Programme on NEP Implementation for Internal Quality Assurance in HEI, Department of Mathematics, PSGR Krishnammal College for Women, 14-Dec-20 to 16-Dec-20.
- FDP on Digital Tools for Active Teaching Evaluation and Research, Department of Chemistry Sri GVG Visalakshi College for Women, 28-Jun-21 to 30-Jun-21.
- 8 Day National Level Virtual Faculty Development Programme on "NAAC Process on Quality Assessment", IQAC, Sree Narayana Guru College in Collaboration with Bharathiar University, Coimbatore, 11-Dec-20 – 18-Dec-20.
- AICTE Training And Learning (ATAL) Academy Online FDP on "Artificial Intelligence", G Pulla Reddy Engineering College, 01-Feb-21 to 05-Feb-21.
- Faculty awareness program " NBA Accreditation Process" conducted by SNJB's College of Engineering, Nashik on 19.05.2020.
- Two-Day FDP on "Virtual Teaching" conducted by CIT – TLC, Teaching Learning Centre (Under PMMMNMTT Scheme, Department of Higher Education, MHRD, GoI) Coimbatore Institute of Technology on April 20 & 21, 2020.
- One week International faculty Development Program "Leadership Strategies Post COVID-19 Environment" organized by Department of Management Studies, Tagore Engineering College from 03.08.2020 to 08.08.2020.
- International webinar series Faculty Development Programme on "Contemporary and Advanced Research in Life Science" hosted by Department of Microbiology, Karpagam Academy of Higher Education, Coimbatore on 04-06-2020 and 05-06-2020.
- Five Day IQAC FDP series-2022 organized by IQAC Cell, Sankara College of Science and Commerce from 24.01.2022 to 29.01.2022.
- IP Awareness/Training program under NATIONAL INTELLECTUAL PROPERTY AWARENESS MISSION on January 16, 2023.
- Seven days National Level FDP on Teaching and Learning in Higher Educational Institutions held from 6th to 14th September 2022 in IOT Academy.
- Professional Development Programme on Implementation of NEP 2020 for University and College Teachers' held from 21- 29 September, 2022, Indira Gandhi National Open University, Staff Training and Research Institute of Distance Education New Delhi 110068.

- One Day Workshop on Outcome Based Education (OBE) organised by Dr. N.G.P Arts and Science College, Coimbatore in association with ipsr solutions limited on 04 March 2023.

Conference / Seminar / Workshop Organized

- Organizing member, International seminar on Inculcating Innovations, Dr.N.G.P Arts and Science College, Coimbatore, 6- Mar-09
- Organizing member, Two day workshop on Molecular techniques, Department of Biochemistry and CLT, Dr. N.G.P Arts and Science College, Coimbatore, 7-Feb-11 to 8-Feb-11.
- Organizing member, National level seminar on Modern Scenario in Nanomedicine, Department of Biochemistry, Dr.N.G.P Arts and Science College, Coimbatore, 22-Sep-11.
- Organizing member, National Conference on Recent Trends in Medicinal Plants and their Products, Department of Biochemistry, Dr.N.G.P Arts and Science College, Coimbatore, 18-Sep-13.
- Organizing member, DST sponsored INSPIRE SCIENCE CAMP 2013 for school students, Dr.N.G.P Arts and Science College, Coimbatore 18-Nov-13 to 23- Nov-13.
- Organizing member and Treasurer, DST sponsored INSPIRE SCIENCE CAMP 2014 for school students, Dr.N.G.P Arts and Science College, Coimbatore, 21-Jul-14 to 25-Jul-14.
- Organizing member and Treasurer, Two days National conference on Role of biopharmaceuticals in achieving health by 2020, Dr.N.G.P Arts and Science College, Coimbatore, 10-Jul-15 to 11-Jul-15.
- Organizing member and Treasurer, DST sponsored INSPIRE SCIENCE CAMP 2015 for school students Dr.N.G.P Arts and Science College, Coimbatore, 24-Aug-15 to 28- Aug-15.
- Organizing member and Treasurer, Science Academies Lecture workshop Trends in Modern Biology, Department of Biochemistry, Dr.N.G.P Arts and science College, 15-Sep-16 to 16-Sep-16.
- Organizing Member and Treasurer, DBT sponsored National Conference on Changing Disease Profile: Challenges facing basic and Translational Cancer Research, Department of Biochemistry, Dr.N.G.P Arts and Science College, 5-Oct-16 to 6-Oct-16.
- Organizing member and Treasurer, DST sponsored INSPIRE SCIENCE CAMP 2015 for school students Dr.N.G.P Arts and Science College, Coimbatore, 26-Dec-16 to 30-Dec-16.
- Organizing member and Treasurer, Science Academies Lecture workshop on DNA Technologies in Revisiting Biology, Department of Biochemistry, Dr.N.G.P Arts and science College, 27-Jul-17 to 29-Jul-17.
- Organizing member and Treasurer, Science Academies Lecture Workshop on Mathematics Biology, Department of Biochemistry, Dr.N.G.P Arts and science College, 07-Dec-17 to 08-Dec-17.
- Organizing member and Treasurer, DST sponsored INSPIRE SCIENCE CAMP 2017 for school students Dr.N.G.P Arts and Science College, Coimbatore, 26-Dec-17 to 30-Dec-17.
- Committee member, Science Academies Lecture Workshop on Recent advances in Biochemistry, Dr. N.G.P. Arts and Science College, Coimbatore, 10-Aug-18 to 11-Aug-18.

- Organizing Secretary, Two days Interdepartmental workshop on Phytochemical Analysis under DBT-STAR Scheme, Dr. N.G.P. Arts and Science College, Coimbatore on 19-Sep-18 to 20-Sep-18.
- Committee member, DBT-STAR College Scheme sponsored National symposium on Graduate research-2019 (NSGR-2019), Dr. N.G.P. Arts and Science College, Coimbatore on 23-Feb-19 to 24-Feb-19.
- Committee member, International Conference on Prospects of Nutraceuticals and Natural Medicine, Dr. N.G.P. Arts and Science College, Coimbatore on 25-Feb-19.
- Committee member, National Science Day Celebrations – 2019, Government Primary Schools, 28-Feb-19.
- Committee member, Summer Internship Program (SIP-2019), Department of Biochemistry, Dr. N.G.P. Arts and Science College, Coimbatore on 23-May-19 to 28-May-19.
- Committee member, DBT-STAR College Scheme sponsored National symposium on Graduate Research-2020 (NSGR-2020), Dr. N.G.P. Arts and Science College, Coimbatore on 21-Feb-20 to 22-Feb-20.
- Committee member, National Conference on Futuristic Approaches in Transformation of Bioscience Research (FATBR-2020), Dr. N.G.P. Arts and Science College, Coimbatore on 06-Mar-20 to 07-Mar-20.
- Organizing Secretary, Two days Interdepartmental workshop on Phytopharmacology under DBT-STAR Scheme, Dr. N.G.P. Arts and Science College, Coimbatore on 22-Oct-21 to 23-Oct-21.
- Organizing member and Treasurer in National Conference on Interdisciplinary Approaches on Dynamics of Bioscience Research (IADBR - 2023), Dr. N.G.P. Arts and Science College, Coimbatore on 28-Mar-23.
- Staff Incharge, Icon Club Faculty of Bioscience, Dr. N.G.P. Arts and Science College, Coimbatore.
- Committee Member, Women's Forum, Dr. N.G.P. Arts and Science College, Coimbatore.
- Member, NAAC Criterion III, Dr. N.G.P. Arts and Science College, Coimbatore.
- Committee member, Student Counseling Cell, Dr. N.G.P. Arts and Science College, Coimbatore.
- Committee member, Journal Club, Dr. N.G.P. Arts and Science College, Coimbatore.
- Secretary, Alumni Association, Dr. N.G.P. Arts and Science College, Coimbatore.
- Manager, NAAC Criterion III, Dr. N.G.P. Arts and Science College, Coimbatore.
- Coordinator, NOVUS Center of Excellence, Dr. N.G.P. Arts and Science College, Coimbatore.
- Committee Member, Internal Complaints Committee, Dr. N.G.P. Arts and Science College, Coimbatore.
- Committee member, Discipline –Code of Conduct, Dr. N.G.P. Arts and Science College, Coimbatore.
- Committee member, Center for Innovation, Dr. N.G.P. Arts and Science College, Coimbatore.
- Faculty Coordinator, Manav Scientific Reading and Comprehension Self Assessment Module (for students), Manav, IISER, Pune.
- Member, Institution Innovation Council, Dr. N.G.P. Arts and Science College, Coimbatore.

Staff Recognition

- Session Chair, National Workshop on Big data Analytics in Clinical Research conducted by Department of Clinical Laboratory technology and Department of Computer Science with Cognitive Systems on 19.03.2021.

- Evaluator, 29th National Children's Science Congress Tamilnadu Forest College and Research Institute Mettupalayam 27.12.2021 29.12.2021.
- Acted as Judge for Oral Presentation in the XIV Louis Pasteur International Symposium on Role of Multidisciplinary Research in Microbiology for Sustainable Development held on March 9-10, 2023 organized by Department of Microbiology, Dr.N.G.P.Arts and Science College.

Member in BoS

Board of Biochemistry, Dr.N.G.P. Arts and Science College, Coimbatore, since 2015-till date

Membership in Professional Bodies

Name of the Professional Body	Nature of membership	Duration
Pharma Research Library	Life-time	-
Indian Association of Applied Microbiologist	Life-time	-
Indian Science Congress Association	One year	2011-2012
Institute of Researchers	Life-time	

Awards / Honors

Awards / Honors	Agency / Institute	Year of Award
Best Mentor	Dr.N.G.P Arts and Science College	2020
Best Fund Mobilizer	Dr.N.G.P Arts and Science College	2021
Young Researcher Award 2022	Institute of Researchers, Wayanad, Kerala	2023

Reviewer/Editorial Board Member

- Reviewer, International Journal of Plant & Soil Science, Certificate No: SDI/HQ/PR/Cert/96658/DRK , Feb 2023
- Reviewer, Asian Journal of Biochemistry, Genetics and Molecular Biology Certificate No: SDI/HQ/PR/Cert/83234/KRA, Feb 2022.
- Reviewer, European Journal of Nutrition & Food Safety, Certificate No: SDI/HQ/PR/Cert/73158/KRA, 2021.
- Reviewer, Asian Food Science Journal, Certificate No: SDI/HQ/PR/Cert/98488/DRR, April, 2023.
- Reviewer, Asian Journal of Research in Medical and Pharmaceutical Sciences, April 2023.
- Reviewer, Asian Journal of Biochemistry, Genetics and Molecular Biology, Certificate No: SDI/HQ/PR/Cert/97628/DRK, March 2023