

**Name** : Dr. D. PRADEEPA

**Designation** : Assistant Professor

**Department** : Biochemistry

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

**Experience** : Teaching: 6 Years Industry: - Research: 9 Years

**Area of Specialization(s)** : Molecular genetics and Plant Biochemistry and Biotechnology

**Email (Official ID)** : pradeepa@drngpasc.ac.in



### Academic Qualifications

Degree	Branch	Institution / University Name	Year of Graduation
Ph. D.	Biochemistry	Avinashilingam Insititute for Home Science and Higher Education for Women, Coimbatore	2014
M. Phil.	Biotechnology	Bharathiyar University, Coimbatore	2008
M. Sc.	Biochemistry	Avinashilingam Insititute for Home Science and Higher Education for Women, Coimbatore	2005
B. Sc.	Biotechnology and Biochemistry	Avinashilingam Insititute for Home Science and Higher Education for Women, Coimbatore	2003

### Additional Qualifications

Diploma / Vocational / Certification	Area of Specialization	Institution / University / Agency Name	Year
Online Certificate	Outcome based pedagogic principles for effective teaching	NPTEL	2018
Online Certificate	Biomedical Nanotechnology	NPTEL	2019
Online Certificate	Stress Management	NPTEL	2020
Online Certificate	Digital Teaching Techniques	ICT Academy	2020
Online	Molecular Basis of	Infosys Springboard	2022

Certificate	Inheritance		
Online Certificate	Human Health and Diseases	Infosys Springboard	2022

## Projects

### Completed

Project Title	Agency	Amount	Duration
Popularization of Foldscope among farmers of Coimbatore for the onsite detection of pest nematode	DBT Foldscope	8,00,000	2018 – 2019
Photo Decontamination of Endosulphan and Evaluation of its Phytotoxicity	Seed Money, Dr. NGPASC	5,000	2017 - 2018
A Comparative Study on Genotype and Biological Activity of the Dates Phoenix dactylifera Seeds of Indian and Arabian Varieties	Seed Money, Dr. NGPASC	5,000	2016 - 2017
An Investigation on the Impact of Sprouting and Roasting on the Selected Biochemical and Nutritive Composition of Kodo Millet	Seed Money, Dr. NGPASC	5,000	2021 - 2022

## Research Publications (Indexed)

### International

- **Pradeepa Duraisamy**, Aswani Ram Vinod, Keerthika, S., and Dhana Rangesh Kumar, V., Extraction, characterization, antimicrobial activity of chitosan extracted from crab shell and preparation of chitosan-based bioplastic film for food packaging, Journal of Advanced Scientific Research, Vol. 13, issue. 1, pp. 263-268, February 2022, ISSN: 0976-9595, (Indexed in Google Scholar).
- **Pradeepa, D.**, Poonkodi, K., Dhana Rangesh Kumar, V., and Sanjay Prasad, S., **Aflatoxin Detoxification Potential of Green Synthesized Silver Oxide Nanoparticles from *Tabernaemonana divaricate* Leaf Extract**, Strad Research, Vol. 8, issue. 9, pp. 344 – 352, September 2021, ISSN: 0039-2049, (Indexed in Web of Science, UGC Care-II, Google Scholar).
- **Pradeepa, D.**, Kowsika Kathiresan, Dhana Rangesh Kumar, V., and Karukuvel Raja R., **Biosynthesis of Silver Nanoparticles using Anti-Microbial Peptides (AMP) from *Litopenaeus vannamei* (white leg shrimp) and Determining its Antibacterial Activity against Clinical pathogens**, Strad Research, Vol. 8, issue. 9, pp. 335 - 343, September 2021, ISSN: 0039-2049, (Indexed in Web of Science, UGC Care-II, Google Scholar).
- **Pradeepa, D.**, Keerthika S., Aswani Ram Vinod, and Dhana Rangesh Kumar, V., **Preparation and Evaluation of Antioxidant, Antimicrobial Activity of Seaweed**

**(*Kappaphycus alvarezii*) based Herbal Hair Oil Formulation**, Journal of University of Shanghai for Science and Technology, Vol. 23, issue. 8, pp. 314 - 325, August 2021, ISSN: 1007-6735, (Indexed in Scopus, UGC Care-II, Google Scholar).

- Mohanprasanth Aruchamy, and Dr. **Pradeepa Duraisamy.**, ***In vitro* antioxidant and anticancer activity of methanolic extract of *Trachyspermum ammi* seed on human oral cancer (KB) cell line**, Journal of University of Shanghai for Science and Technology, Vol. 23, issue. 7, pp. 426 - 436, July 2021, ISSN: 1007-6735, (Indexed in Scopus, UGC Care-II, Google Scholar).
- **Pradeepa, D.**, Kalaiselvi, R., Pankajavalli, T., and Kalaiselvi, S., **Effect of sucrose and auxin concentration on induction of *in vitro* adventitious roots of *Withania somnifera***, International Journal of Pharma and Biosciences, Vol. 5, issue. 2, pp. (B)596-603, April-June 2014, ISSN: 0975-6299, (Indexed in Google Scholar/ Embase of Elsevier).
- **Pradeepa, D.**, Santhini, E., Vijaya Padma, V., and Balamurugan, R., **Prevalence of Mitochondrial tRNA Gene Mutations and Their Association with Specific Clinical Phenotypes in Patients with Type 2 Diabetes Mellitus of Coimbatore**, Genetic Testing and Molecular Biomarkers, Vol. 14, issue. 1, pp. 49-55, February 2010, ISSN: 1945-0265, (Indexed in SCI, Scopus).
- Dhana Rangesh Kumar V., Durga, M., **Pradeepa, D.**, **Formulation and evaluation of a Polyherbal Syrup as a Immune Booster**, Strad Research, Vol. 8, issue. 9, pp. 376 – 386, September-2021, ISSN: 0039-2049, (Indexed in Web of Science).
- Dhana Rangesh Kumar, V., Sarvatha, A.D., Sasi kokila G., **Pradeepa, D.**, **Evaluation of Antioxidant, Antibacterial Activity and Phytoactive Compounds of Aqueous Extracts of *Garcinia gummi-gutta* fruit rind**, International Journal of All Research Education and Scientific Methods, Vol. 9, issue. 6, pp. 833-840, June-2021, ISSN: 2321-9653, (Indexed in Google Scholar, UGC Approved)
- Dhana Rangesh Kumar, V., Sasi kokila G., Sarvatha A.D., **Pradeepa D.**, (2021). **Phytochemical Profiles, *In Vitro* Antioxidant, Anti Inflammatory and Antibacterial Activities of Aqueous Extract of *Terminalia catappa* L. Leaves**. Journal of Pharmaceutical Sciences and Research, Vol. 13, issue. 6, No. 1, pp. 340-346, June-2021, ISSN: 0975-1459, (Indexed in Scopus (Elsevier)).
- Nathiya, S., **Pradeepa, D.**, Devasena, T., and Kalaiselvi, S., **Studies on the effect of sucrose, light and hormones on micropropagation and *in vitro* flowering of *Withania somnifera* var. Jawahar-20**, The Journal of Animal and Plant Sciences, Vol. 23, issue. 5, pp. 1391-1397, January 2013. ISSN: 1018-7081, (Indexed in Scopus).

- Sumithradevi, S., **Pradeepa, D.**, and Kalaiselvi, S., **A simple method to purify withanolide a from the roots of *Withania somnifera* Dunal**, International Journal of Pharma and Bio Sciences, Vol. 2, issue. 2, pp. 231-236, April-June 2011, ISSN: 0975-6299, (Indexed in Google Scholar/ Embase of Elsevier).
- Preethi M. Purushotham, Archana Thottukara Madam, **Pradeepa Duraisamy**, and Kalaiselvi Senthil, ***In vitro* propagation and enhancement of phytoconstituents in *Withania coagulans*, a rare medicinal plant**, Bulletin of Environment, Pharmacology and Life Sciences, Vol. 4, issue.7, pp. 122-131, June 2015, ISSN: 2277-1808, (Indexed in Google scholar, ISI Master Journal list, Thomson Reuters).
- Preethi, M.P., Sangeetha, U., **Pradeepa, D.**, Valizadeh, M., and Kalaiselvi, S., **Principal component analysis and HPTLC fingerprint of *In vitro* and field grown root extracts of *Withania coagulans***, International Journal of Pharmacy and Pharmaceutical Sciences, Vol. 6, issue. 5, pp. 480-488, May 2014. ISSN: 0975-1491, (Indexed in Google Scholar, EBSCO and EMBASE of Elsevier, SCI mago).
- Pankajavalli, T., Kalaiselvi, R., **Pradeepa, D.**, and Kalaiselvi, S., **Effect of exogenous indole-3-butyric acid and indole-3-acetic acid on biomass and legendary withanolides from *in vitro* root cultures of *Withania somnifera* – Jawahar 20 cultivar**, International Journal of Pharma and Biosciences, Vol. 5, issue. 4, pp. (B)971 – 979, October-December 2014, ISSN: 0975-6299, (Indexed in Google Scholar/ Embase of Elsevier).
- Padma, V.V., Anitha, S., Santhini, E., **Pradeepa, D.**, Tresa, D., Ganesan, P., Ishwarya, P. and Balakrishnan, R., **Mitochondrial and nuclear gene mutations in the type 2 diabetes patients of Coimbatore population**, Molecular and Cellular Biochemistry, Vol. 345, issue. 1-2, pp. 223–229, December 2010, ISSN: 1573-4919, (Indexed in SCI, Scopus).
- Kalaiselvi, S., Murukarthick, J., Pankajavalli, T., Lee, S.C., **Pradeepa, D.**, Preethi, M.P., Kalaiselvi, R., Nancy, S.C., Mariam, I.R., Arulkumar, N., Kim, G.S., Lee, Y.S., Senthil, N., Min, T-S., and Yang, T.J., **Transcriptome analysis reveals *in vitro* cultured *Withania somnifera* leaf and root tissues as a promising source for targeted withanolide biosynthesis**, BMC Genomics, Vol. 16, issue 1, No. 14, January 2015, ISSN:1471-2164, (Indexed in SCI, Scopus).

## National

- Dileep, R., Reshmi, K., Tharan, S., Sarvadhya, A.D., Swetha, S., Jeyasurya, G., **Pradeepa D.**, and Manju K., **Antimicrobial and antioxidant activity of the methanolic extract of *Alpinia purpurata* rhizomes**, Journal of Pharmacognosy and Phytochemistry, Vol. 8, issue. 2, pp. 1373-1377, February 2019, ISSN: 2278-4136 and 2349-8234, (Indexed in Google Scholar)

## Conference Proceedings

- Poonkodi. K, Kowsika. K and Dr. D. Pradeepa, *In vitro* anti arthritic activity of stem of *Calotropis gigantea* of methanolic extract, Proceedings of the National Conference On “Futuristic Approaches in Transformation of Bioscience Research” (FATBR-2020), 6-Mar-20 to 7-Mar-20, FATBR-BC-5, P. No. 22, ISBN: 978-81-943062-7-6.
- J. Dhivyabharathi, A.S. Bhavishiya and Dr. D. Pradeepa, Anticancer Activity of *Andrographis paniculata* against Human Liver (Hep G2) Cancer Cell Line, Proceedings of the National Conference On “Futuristic Approaches in Transformation of Bioscience Research” (FATBR-2020), 6-Mar-20 to 7-Mar-20, FATBR-20-BC-7, P.No. 24, ISBN: 978-81-943062-7-6.
- Mohanprasanth A and Dr. D. Pradeepa, Phytochemical Screening and Evaluation of Antioxidant Activity in Various Extracts of *Trachyspermum ammi* Seeds, Proceedings of the National Conference On “Futuristic Approaches in Transformation of Bioscience Research” (FATBR-2020), 6-Mar-20 to 7-Mar-20, FATBR-20-BC-13, P.No. 27, ISBN: 978-81-943062-7-6.
- Arunima Surendiran, Dhivyadharshini Palanisamy, Sneha Sugumar and Dr. D. Pradeepa, Biogas and Biofuel Production By Vegetable And Food Wastes By Hydrothermal Liquefaction And Anaerobic Digestion, Proceedings of the National Conference On “Futuristic Approaches in Transformation of Bioscience Research” (FATBR-2020), 6-Mar-20 to 7-Mar-20, FATBR-20-BC-36, P.No. 35, ISBN: 978-81-943062-7-6.
- Dr. S. Gowri, Dr. D. Pradeepa, K. Jeevika, V. Prakalya, Smart Sensing Techniques in life stock management in Agriculture, Proceedings of the National Conference on “AI and IoT for Agriculture Innovation and Environment Sustainability” (NCAIAIES-22), 25-Aug-22 to 26-Aug-22, P.No.224-227, ISBN-978-81-957709-5-3.
- M. Deepika, R. Pavithra, K. Priyanka, Dr. K. Rajathi, Dr. D. Pradeepa and Mrs. G. Lalitha, To prevent Blister blight in *Camellia sinesnis* using IoT method, Proceedings of the National Conference on “AI and IoT for Agriculture Innovation and Environment Sustainability” (NCAIAIES-22), 25-Aug-22 to 26-Aug-22, P.No.241-247, ISBN-978-81-957709-5-3.
- Nitharshana P, Balaji L, Dr. D. Pradeepa and Dr. S. Gowri, Review on role of Biosensor in Agriculture, Proceedings of the National Conference on “AI and IoT for Agriculture Innovation and Environment Sustainability” (NCAIAIES-22), 25-Aug-22 to 26-Aug-22, P.No.248-252, ISBN-978-81-957709-5-3.
- M. Nandhini, L. Poorvasandhya, M. Vidhya Shree, Dr. S. Gowri, Dr. D. Pradeepa, Dr. K. Rajathi and Dr. Rachana Sharma, A review on weather monitoring system using IoT in agriculture, Proceedings of the National Conference on “AI and IoT for Agriculture Innovation and Environment Sustainability” (NCAIAIES-22), 25-Aug-22 to 26-Aug-22, P.No.259-263, ISBN-978-81-957709-5-3.

- Vidya Sri M and Dr. D. Pradeepa, Formulation and Evaluation of Plant based feminine wash, Proceedings of the National Conference on Interdisciplinary Approaches on Dynamics of Bioscience Research (IADBR - 2023), 28-Mar-23, IADBR-2023-BC-7, P. No.21, ISBN 9788196232276.
- Cibichakravarthy R and Dr. D. Pradeepa, Evaluation of larvicidal efficacy of ethanolic extract of *Salvia rosmarinus* and *Ocimum tenuiflorum* against *Culex* and formulation of mosquito repellent card, Proceedings of the National Conference on Interdisciplinary Approaches on Dynamics of Bioscience Research (IADBR - 2023), 28-Mar-23, IADBR-2023-BC-8, P. No.22, ISBN 9788196232276.
- Lalith Sree L and Dr. D. Pradeepa, The Ascension of autoimmune diseases and its association with modern lifestyle and neurological distress: A review, Proceedings of the National Conference on Interdisciplinary Approaches on Dynamics of Bioscience Research (IADBR - 2023), 28-Mar-23, IADBR-2023-BC-13, P. No.27, ISBN 9788196232276.
- Nitharshana P and Dr. D. Pradeepa, Comparative analysis of larvicidal activity of *Tagetes erecta* and *Chrysanthemum* flower extracts and formulation of mosquito repellent gels and candles, Proceedings of the National Conference on Interdisciplinary Approaches on Dynamics of Bioscience Research (IADBR - 2023), 28-Mar-23, IADBR-2023-BC-17, P. No.31, ISBN 9788196232276.

#### Presentations in Conference

- **Antioxidant effect of flowers of *Clitoria ternatia* (Sangu pushpam)**, National seminar on Current trends in biological sciences, Avinashilingam University, Coimbatore, 12-Dec-02 to 13-Dec-02.
- **Antibiosis mediated suppression of soil borne fungal pathogens using *Pseudomonas fluorescens***, Asian Conference on Emerging trends in Plant-Microbe interactions, Centre for Advanced Studies in Botany, University of Madras, Chennai, 8-Dec-05 to 10-Dec-05.
- **Establishment of *in vitro* adventitious roots from *Withania somnifera* and mass cultivation in bioreactors**, 3<sup>rd</sup> Indo-Korean joint seminar on Medicinal plant research, Avinashilingam University, Coimbatore, 23-Feb-10.
- **Extraction and purification of withanolides from roots of *Withania somnifera***, National conference on Biodiversity of medicinal and aromatic plants: collection, characterization and Utilization, Medicinal and Aromatic Plants Association of India, Anand, 24-Nov-10 to 25-Nov-10.
- **Bioconversion of major ginsenosides from Korean ginseng using Fermented Barley**, South zone and National student research convention, University of Calicut, 7-Jul-10 to 9-Jul-10 and Punjab University, 11-Aug-10 to 13-Aug-10.

- **Development of HPTLC fingerprint in commercial products containing Aswagandha**, International conference on new horizons in pharmaceutical and biomedical sciences, SGI, Dehradun, 12-Jan- 13 to 13-Jan- 13.
- **Effect of cytokinins on *in vitro* flower morphogenesis in *Withania somnifera***, SFRR SATCON and International symposium on Free radical damage and herbal antioxidants in health and disease, Avinashilingam University, Coimbatore, 4-Feb-13 to 5-Feb-13.
- **Development of efficient adventitious root induction in *Withania somnifera* and its mass production using bioreactor**, National seminar on Challenges and innovative approaches in crop improvement, Tamil Nadu Agricultural University, Madurai, 16-Dec-14 to 17-Dec-14.
- **Identification of an elite cultivar by analyzing secondary metabolite content present in *Withania somnifera* roots collected from various locations**, National seminar on Research trends in Plant Science & its Societal Impact, PSGR Krishnammal College for Women, Coimbatore, 5-Jan-16 to 6-Jan-16.
- **A comprehensive study on changes in the selected biochemical composition and antioxidant levels of five millets on soaking and germination**, International conference on Scenario in biological innovations, Bharathidasan College of Arts and Science, Erode, 27-Sep-16 to 28-Sep-16.
- **A comparative study on genotype and biological activity of the dates *Phoenix dactylifera* seeds of Indian and Arabian varieties**, International Conference on Bioscience and Industrial Applications, Sri Ramakrishna College of Arts and Science for Women, Coimbatore, 16-Feb-18.
- **Review on antioxidant and anticancer activity of *Amaranthus* Sp.**, International Conference on Challenges in Biomedicine (ICCM-2019), Sree Narayana Guru College, Coimbatore, 30-Jan-19.
- **Anticancer activity using quinoline nanofiber**, National Conference on Interdisciplinary Advances in Biological Sciences, Bharathidasan College of Arts and Science, Erode, 12-Jul-19.
- **Determination of antioxidant and antimicrobial activities in Rhizomes of *Alpinia purpurata***, International Conference on Contriving Therapeutic Drugs from Medicinal Plants, Sree Narayana Guru College, Coimbatore, 12-Feb-20.
- **The role of bone marrow derived cells in the origin of liver cancer**, Virtual international conference on Life Science in Avenues – 202, Rathnavel Subramaniam College of Arts and Science, Sulur, Coimbatore, 08-Oct-21 to 09-Oct-21.
- **Review on role of biosensors in Agriculture**, DBT-CTEP, New Delhi sponsored National Conference on AI and IoT for Agriculture Innovation and Environment Sustainability

(NCAIAIES-22), Dr. N.G.P. Arts and Science College, Coimbatore, 25-Aug-22 to 26-Aug-22.

- **The ascension of autoimmune disease and its association with modern lifestyle and neurological distress: A review**, Second International conference on innovations in applied sciences, Mahalakshmi Women's College of Arts and Science, Avadi, Chennai, 03-Feb-23.
- **Comparative analysis of larvicidal activity of *Tagetes erecta* and *Chrysanthemum* flower extracts and formulation of mosquito repellent gels and candles**, National Conference on Interdisciplinary Approaches on Dynamics of Bioscience Research (IADBR - 2023), Dr. N.G.P. Arts and Science College, Coimbatore, 28-Mar-23.

## Participation in Conference

### International

- Genetic and molecular diagnosis in modern medicine, Kamineni Educational Society, Hyderabad, 7-Jan-08 to 9-Jan-08.
- Indian Rural Public Health and Non-Communicable Disease, KMCH Research Foundation, Kovai Medical Center and Hospital, Coimbatore, 06-Apr-19.
- XIV Louis Pasteur International Symposium on "Role of multidisciplinary research in microbiology for sustainable development (RMSD-2023)", Dr. N.G.P. Arts and Science College, Coimbatore, 09-Mar-23 to 10-Mar-23.

### National

- A journey down the double helix, Avinashilingam University, Coimbatore, 24-Feb-03.
- Recent trends in Biochemistry, Avinashilingam University, Coimbatore, 23-Mar-05.
- Frontiers in Biotechnology, Bharathiar University, Coimbatore, 8-Feb-07 to 9-Feb-07.
- Diabetes and Cancer (Dia-Can 07), Annamalai University, Annamalaiagar, 15-Dec-07 to 16-Dec-07.
- Path finder – Explore, experiment, elucidate research: a colloquim-2010, Avinashilingam University, Coimbatore, 22-Dec-10 to 23-Dec-10.
- Research convention - Research ethics & post research methods, Avinashilingam University, Coimbatore, on 1-Aug-13 to 3-Aug-13.
- Cutting edges in biotechnology, Avinashilingam University, Coimbatore, 26-Feb-14.
- Transitional and translational scenarios in biological sciences, Dr. N.G.P. Arts and Science College, Coimbatore, 9-Sep-16 to 10-Sep-16.

- Natural therapeutics, Kongunadu Arts and Science College, Coimbatore, 20-Sep-16.
- Obesicon 6 – Understanding Global Epidemic (Obesity) Amidst Pandemic, GEM Hospital, Coimbatore, 5-Sep-2021.

### **Participation in Seminars**

- Current trends in Bioinformatics, Government College of Technology, Coimbatore on 6-Jan-04.
- Modern tools in Biotechnology, Bharathiar University, Coimbatore, 22-Feb-08.
- Research methodology and data interpretation, Avinashilingam University, Coimbatore, 28-Jan-10.
- Computational Biology, Avinashilingam University, Coimbatore, 16-Mar-11.
- IIC Online Sessions to promote Innovation, IPR, Entrepreneurship, and Start-ups among HEIs, Institution's Innovation Council (IIC) of MHRD's Innovation Cell, New Delhi, 28-Apr-2020 to 22-May-2020.

### **Participation in Webinars**

- India First Leadership Talk webinar, MHRD's Innovation Cell, 02-May-2020.
- How to Diagnose Novel Corona Virus (COVID-19)?, Crescent Innovation and Incubation Council (CIIC), 04-May-2020.
- Bacterial Virulence: Perceptive and Pragmatic approach, Indian Academy Degree College-Autonomous, Bangalore, 05-May-2020.
- “COVID-19 Stress Management Through Yoga” - Web Series Programme on COVID-19 Virus Awareness Programme, Nature Science Foundation, Coimbatore, 17-May-2020.
- Webcast on Advanced OBE – Identifying Weaker students and remedial actions, InPods Ed-Tech, 21-May-2020.
- DST- PURSE Sponsored webinar on “Disease Diagnosis and Therapeutics”, Bharathiar University, Coimbatore, 24-Mar-21 to 25-Mar-21.
- State Level Webinar on “Systematic and Simplified Style of Reviewing Literature”, GRT College of Education, Tiruttani, 5-Jun-21.
- National Webinar on "Marine Bioresources and Bioprospecting", Bharathidasan College of Arts and Science, Erode, 14-Jun-21.
- International Virtual Convention on Ayurveda and Research Advances in COVID-19, Ayurveda College, Coimbatore & DIKSHA E-learning, 17-Jun-21 to 20-Jun-21.

- 'How to avoid plagiarism?', VIT, Chennai, 16-Jul-21.
- Development of Micro Enterprises under NaaViC's ARISE Series, NaaViC and ni-msme, 27-Nov-21.
- National level webinar on National Education Policy – Vision to action, Sankara College of Science and Commerce, Coimbatore, 31-Dec-21.
- Intellectual Property management strategies for Start-ups conducted during Celebration of Innovation Week Patent Information Centre, Tamil Nadu State Council for Science and Technology, Chennai in collaboration with Cell for IPR Promotion and Management, New Delhi, 12-Jan-22.

### **Participation in Workshop**

- Entrepreneurial stimulation for youth, Avinashilingam University, Coimbatore, 29-Mar-11 to 30-Mar-11.
- Hands-on training on chromatography system, Avinashilingam University, Coimbatore, 6-Mar-14 to 7-Mar, 2014.
- Field emission scanning electron microscope and its applications, The South Indian Textile Research Association, Coimbatore, 7-Aug-14 to 8-Aug-14.
- Spawn production and Mushroom Cultivation, Kongunadu Arts and Science College, Coimbatore, 27-Sep-16.
- Hands-on training on cell culture techniques, cell proliferation assays and gene expression analysis by RT-PCR (DBT sponsored), JSS College of Pharmacy, Ootacamund, 14-Jul-16 to 16-Jul-16.
- Quality enhancement in HEIs by the effectiveness of academic and administrative audit issues and challenges (NAAC sponsored), S.N.R. Sons College, Coimbatore, 21-Oct-16 to 22-Oct-16.
- Analysis of spectral data at Dr. N.G.P. Arts and Science College, Coimbatore on 30-Jan-17.
- Biofertilizer and vermicomposting for Sustainable Agriculture (TNSCST and NCSTC sponsored), Bharathidasan College of Arts and Science, Erode, 13-Jul-17 to 14-Jul-17.
- Insights in Lifescience (Science Academies Lecture workshop), Bharathiar University, Coimbatore, 22-Jan-18 to 24-Jan-18.
- DBT Foldscope Orientation Workshop, DBT, Ministry of Science and Technology, Govt. of India, ICGEB, New Delhi, 17-April-18.
- NPTEL Workshop, PSG College of Arts and Science, Coimbatore, 22-Jun-18.

- MOOCs, e-content Development and Open Educational Resources (UGC-Sponsored), UGC-Human Resource Development Centre, Bharathiar University, 22-Oct-18 to 26-Oct-18.
- *In Silico* Molecular Modeling and Drug Designing, Bioinformatics Centre and ARIS Cell, Madras Veterinary College, Chennai, 7-Jan-19 to 11-Jan-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.
- FT-IR Spectroscopy and atomic absorption spectroscopy (UGC sponsored), Department of Chemistry, Kongunadu Arts and Science College, Coimbatore, 14-Feb-20.
- National workshop on How to write a research paper?, School of Social sciences and Languages, VIT, Chennai, 22-Jun-21.
- Two days international workshop on Digital disruption in learning, ASSOCHAM Tamil Nadu & Kerala Chapter and Kumaraguru College of Liberal Arts and Science, Coimbatore, 17-Sep-21 to 18-Sep-21.
- Virtual workshop series on “Research Methodology – High Impact Research and Publication”, IQAC, Shri Shankarlal Sundarbai Shasun Jain College for Women, Chennai, 13-Nov-21.
- Virtual workshop series on “Research Methodology – Nuances of Persuasive Research Paper”, IQAC, Shri Shankarlal Sundarbai Shasun Jain College for Women, Chennai, 15-Nov-21.
- Two Days Science Academies Lecture Workshop on “Conservation and Management of Biodiversity in The Light of Global Warming”, Dept. of Botany, E.S. Arts and Science College, Villupuram, 02-Dec-21 to 03-Dec-21.
- NPTEL E-Awareness workshop, NPTEL, 06-Jan-22.
- One Day Workshop on Outcome Based Education (OBE), Dr. N.G.P Arts and Science College, Coimbatore in association with ipsr solutions limited, 04-Mar-23.

#### **Participation in Orientation Programme / Short Term Courses**

- One month training programme, Department of Toxicology, IIBAT, 13-May-02 to 11-Jun-02.
- Molecular and biochemical techniques, Department of Eco-Biotechnology, School of Life Sciences, Tiruchirappalli, May-04 to Jul-04.
- Job training, Department of Clinical biochemistry, Microbiological Laboratory, Coimbatore, 3-Oct-05 to 7-Dec-05.

- Training, Department of genetics and molecular medicine, Kamineni hospitals limited, Hyderabad, 01-Sep-06 to 30-Sep-06.
- Ten days FIP online short term course on Biostatistics and R Programming, Rathnavel Subramaniam College of Arts and Science, Sulur, Coimbatore, 09-Aug-21 to 14-Aug-21, 16-Aug-21 to 19-Aug-21.
- Three days National level STTP on Quality Enhancement of Research in HEIs (under UGC-PARAMARSH SCHEME), Department of Mathematics, PSGRKCW, Coimbatore, 23-Sep-21 to 25-Sep-21.

### **Participation in Faculty Development Programme**

- Intellectual Property Rights: Issues and Challenges under DBT STAR College Scheme, PSG College of Arts and Science, Coimbatore, 2-Sep-16.
- AICTE approved Online FDP201X Foundation Program in ICT for Education, IIT, Bombay 3-Aug-17 to 7-Sep-17.
- AICTE approved Online FDP201X Pedagogy for Online and Blended Teaching-Learning Process, IIT, Bombay 14-Sep-17 to 12-Oct-17.
- Quality Initiatives in Higher Education, Dr. N.G.P. Arts and Science College, Coimbatore, 3-Dec-18 to 9-Dec-18.
- NAAC Revised Accrediation Framework and OBE Assessment Methodology, Dr. N.G.P. Arts and Science College, Coimbatore, 27-May-19 to 02-Jun-19.
- NPTEL-AICTE FDP on Biomedical Nanotechnology, NPTEL, Aug-19 to Sep-19.
- Online FDP on BioPython, Spoken Tutorial and Dr. N.G.P. Arts and Science College, Coimbatore, 04-May-2020 to 10-May-2020.
- Online FDP on Outcome Based Education, InPods Ed-Tech, 05-May-2020.
- Online FDP on NEP Implementation for Internal Quality Assurance in HEI, PSGR Krishnammal College for Women, Coimbatore, 14-Dec-2020 to 16-Dec-2020.
- Online FDP on Activities of Institutions to impart quality education, Sree Narayana Guru College, K.G. Chavadi, Coimbatore, 12-Jun-21.
- Online FDP on Digital Tools for Active Teaching, Evaluation and Research, Sri GVG Visalakshi College for Women, Udumalpat, 28-Jun-21 to 30-Jun-21.

- Online FDP on research Methodology and Pedagogy for Tertiary Education, Dr. N.G.P. Arts and Science College, Coimbatore, 15-Jun-21 to 21-Jun-21.
- Online FDP on How to open Trading and Demat Account, Department of Commerce (BPS) and Centre for Faculty Development, Dr. N.G.P Arts and Science College, Coimbatore, 07-Oct-21.
- Online FDP on Innovative Approaches in Pedagogy, Department of Life Sciences and IQAC, New Prince Shri Bhavani Arts and Science College, Medavakkam, Chennai, 20-Oct-21 to 22-Oct-21.
- A seven Day FDP on “OBE – Road Ahead to Advance Educational Quality and Enhance Global Mobility” under UGC Paramarsh Scheme, IQAC and CDC, Kongunadu Arts and Science College, Coimbatore, 10-Nov-21 to 17-Nov-21.
- Online FDP on “Introduction to Mutual Fund”, Dept. of Commerce Accounting & Taxation and Centre for FDP, Dr. N.G.P. Arts and Science College, Coimbatore, 27-Dec-21.
- A Seven Day FDP on “Recent Advance in Chemistry”, Dept. of Chemistry, School of Science, RK University, Rajkot, Gujarat, 27-Dec-21 to 04-01-22.
- Five Day IQAC FDP Series – 2022, IQAC, Sankara College of Science and Commerce, Coimbatore, 24-Jan-22 to 29-Jan-22.
- FDP series on Research and IPR on Awareness Talk on IPR, Confederation of Indian Industry (CII) & Tamil Nadu Technology Development and Promotion Center (TDPC), Shri Shankarlal Sundarbai Shasun Jain College for Women, Chennai, 24-Jan-22.
- FDP series on Research and IPR on Prior Art Research, Confederation of Indian Industry (CII) & Tamil Nadu Technology Development and Promotion Center (TDPC), Shri Shankarlal Sundarbai Shasun Jain College for Women, Chennai, 25-Jan-22.
- UGC-Approved Short-Term Professional Development Programme on ‘Implementation of NEP2020 for University and College Teachers’ Under Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching, Indira Gandhi National Open University, Staff Training and Research Institute of Distance Education, New Delhi, 07-Oct-22 to 15-Oct-22.
- Online Two – Week Refresher Course in “LIFE SCIENCES”, Teaching Learning Centre, Ramanujan College University of Delhi in collaboration with Department of Chemistry,

Miranda House University of Delhi under the aegis of Ministry Of Education Pandit Madan Mohan Malaviya National Mission On Teachers And Teaching, 17-Mar-23 to 01-Apr-23.

### **Conference / Seminar / Workshop Organized**

- Committee member, DBT sponsored National Conference on Changing disease profile: challenges facing basic and translational research in India, Dr. N.G.P. Arts and Science College, Coimbatore, 5-Oct-16 to 6-Oct-16.
- Committee member, Science Academies Lecture Workshop on Trends in Modern Biology, Dr. N.G.P. Arts and Science College, Coimbatore, 16-Sep-16 to 17-Sep-16.
- Committee member, DST sponsored Inspire Internship science Camp, Dr. N.G.P. Arts and Science College, Coimbatore, 26-Dec-16 to 30-Dec-16.
- Committee member, Science Academies Lecture Workshop on DNA Technology in Revisiting Biology, Dr. N.G.P. Arts and Science College, Coimbatore, 27-Jul-17 to 29-Jul-17.
- Committee member, Science Academies Lecture Workshop on Mathematical Biology, Dr. N.G.P. Arts and Science College, Coimbatore, 7-Dec-17 to 8-Dec-17.
- Committee member, DST sponsored Inspire Internship science Camp, Dr. N.G.P. Arts and Science College, Coimbatore, 26-Dec-17 to 30-Dec-17.
- Committee member, Seminar and four days ECO Nature Camp for the students regarding Nature Awareness at Parsons Valley and Porthimund forest, Ooty, 7-Feb-18 to 10-Feb-18.
- 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.
- Organizing member, Achievers Day-2019, Dr. N.G.P. Arts and Science College, Coimbatore on 02-Apr-19.

- Committee member, Summer Internship Program (SIP-2019 & SIP-2020), 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.
- Organizing member, Achievers Day-2020, Dr. N.G.P. Arts and Science College, Coimbatore on 26-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.
- Bioscience Faculty Coordinator, E-learning centre, Dr. N.G.P. Arts and Science College, Coimbatore.
- Committee Member, College Magazine, Dr. N.G.P. Arts and Science College, Coimbatore.
- Committee Member, Waste Management Committee, Dr. N.G.P. Arts and Science College, Coimbatore.
- Organizing Secretary, Intradepartmental workshop on PCR under DBT-STAR Scheme, Dr. N.G.P. Arts and Science College, Coimbatore on 04-Mar-21.
- Faculty Coordinator, Manav Scientific Reading and Comprehension Self-Assessment Module (for students), Manav, IISER, Pune.
- 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 Committee Member, DBT-CTEP, New Delhi sponsored National Conference on AI and IoT for Agriculture Innovation and Environment Sustainability (NCAIAIES-22), Dr. N.G.P. Arts and Science College, Coimbatore, 25-Aug-22 to 26-Aug-22.
- Resource Person, One day Intradepartmental workshop on Micropropagation technique under DBT-ATAR Scheme, Dr. N.G.P. Arts and Science College, Coimbatore on 23-Feb-23.
- Organizing Committee Member, National Conference on Interdisciplinary Approaches on Dynamics of Bioscience Research (IADBR - 2023), Dr. N.G.P. Arts and Science College, Coimbatore, 28-Mar-23.

### **Membership in Professional Bodies**

<b>Name of the Professional Body</b>	<b>Nature of</b>	<b>Duration</b>
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	<b>membership</b>	
Indian Association of Applied Microbiologists	Lifetime	-
Indian Science Congress	1 Year	2012 - 2013

#### **Invited Speaker / Session Chair- Conference / Seminar / Workshop**

- Invited Speaker, IQAC and Department of Biochemistry Organizes Webinar on “Covid-19 Diagnosis”, Mahalakshmi Women’s College of Arts and Science, Avadi, Chennai, 24-Oct-21.