

**Name : Dr ARUN P**

**Designation : Professor**

**Department : Biotechnology**

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

**Experience : Teaching: 19 Years Industry: - Research: 19 Years**

**Area of Specialization(s) : Microbial Bioprospecting**

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#### Academic Qualifications

Degree	Branch	Institution / University Name	Year of Graduation
Ph.D.	Biotechnology	Dr. N.G.P. Arts and Science College, Coimbatore	2020
MBA	Management	Bharathiar University (Distance mode)	2009
M.Phil.	Biotechnology	Periyar university	2007
M. Sc	Biotechnology	Dr. N.G.P. Arts and Science College, Coimbatore	2004
B.Sc	Biotechnology	Dr. N.G.P. Arts and Science College, Coimbatore	2000

#### Additional Qualifications

Diploma / Vocational / Certification	Area of Specialization	Institution / University / Agency Name	Year
DOM	Office Management	Sri Bannari Amman Computers, Coimbatore	2002
PGDCRDM	Clinical Research	Dr. N.G.P. Arts and Science College, Coimbatore	2011
Online Certificate cum FDP	Introduction to Research	NPTEL	2019
Online Certificate cum FDP	Entrepreneurship and IP Strategy	NPTEL	2020
Online Certificate	Bionanotechnology (CBNT)	Association of Indian Biologists (AIB), Chennai	2020

Online Certificate	Medical Bacteriology (Phase II)	Department of Microbiology, Sacred Heart College (Autonomous), Tirupattur, Tamil Nadu, India in association with Microbiologists Society, India and Laboratory of Chemical and Biological Analysis (LAQB), (UEZO), Rio de Janeiro, BrazilWestern Rio Janeiro State University	2020
Online Certificate	Data Analysis for Life Sciences Using R Programming	Guru Nanak Centre for Research (GNCR), Guru Nanak College (Autonomous), Guru Nanak Salai, Velachery, Chennai- 600 042.	2020
Online Certificate	Basics of Organic Farming	Department of Botany, Dadasaheb College	2020
Online Certificate	Microbial Inoculants Technology	Department of Microbiology, Sacred Heart College (Autonomous), Tirupattur, Tamil Nadu, India in association with Microbiologists Society, India and Laboratory of Chemical and Biological Analysis (LAQB), (UEZO), Rio de Janeiro, Brazil Western Rio Janeiro State University	2021
Short Term Course	Graphic Design for Teachers	DBT STAR Sponsored. St. Mary's College, Thoothukudi	2021
Online Certificate cum FDP	Psychology of Everyday	NPTEL	2022
Short Term Course	NAAC Documentation - A Key insight	White Code, IQAC Cluster India	2024
Online Certificate	Vermicomposting Technology – An Overview (Phase I)	Department of Microbiology, Sacred Heart College (Autonomous), Tirupattur, Tamil Nadu, India in association with Biotechnology Society of Nepal (BSN) and Laboratory of Chemical and Biological Analysis (LAQB), (UEZO), Rio de Janeiro, BrazilWestern Rio Janeiro State University	2024
Online Certificate cum FDP	Educational Technology and ICT ( ELITE & GOLD)	NPTEL	2025

## Research Guidance

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

## Publications: International / National Journals

A.Mahalakshmi priya, M.Manikandan, G.kalaiselvi ,P.Arun, P.Chinnaswamy and K.Selvam. **Screening of Antibacterial activity of *Mentha piperita* L.** Asian Jr.of Microbial.biotech.Env.Sc.Vol.9, No (4):2007:1049-1052. ISSN: 0972-3005.

Arun.P, Mebily V B and Madhu Priyanka R. **Screening of Lactic acid Bacteria for its antibacterial properties against *Listeria monocytogenes*.** International Symposium on Harnessing Microbes for Human Health and Resource Recuperation (2012).

P.Arun,V.Shanmugaraju, J.Renga Ramanujam, S.Senthil Prabhu and E.Kumaran. **Biosynthesis of Silver Nanoparticles from *Corynebacterium* sp. and its antimicrobial activity.**Int.J.Curr.Microbiol.App.Sci (2013) 2(3):57-64. ISSN: 2319-7706.

V.Shanmugaraju., P. Arun J.Rengaramanujam.,S.Senthilprabhu. **Isolation of bacteria from seacoasts for its antibacterial substance production.** Int.J Curt. Microbiol. App. Sci. (2013) 2(8): 347-358. ISSN: 2319-7706.

Renga Ramanujam J., Kulothungan S., Kumaran E., Senthil Prabhu S., Arun P. and Shanmugaraju V. **Optimization of Salicylic acid production by *Pseudomonas fluorescens* for the control of *Alternaria alternata* leaf spot in Tomato Plant.** Scrutiny International Journal of Agriculture, Plant Biotechnology and Bio-products. (2015). 2(1); 24-37. ISSN Online: 2349-0128.

Renga Ramanujam J., Kulothungan S., Senthil Prabhu S., Kumaran E., Shanmugaraju V. and Arun P. **A study on synergism between *Pseudomonas fluorescens* and *Parthenium hysterophorus* as a bio-control agent to *Alternaria alternata* (leaf spot) in *Lycopersicon esculentum*(tomato).** Scrutiny International Journal of Microbiology and Bio-Technology. (2015). 2(1); 25-38. ISSN Online: 2349-0101.

Arun P, Dharmaraj G and Shanmugaraju. V. **Isolation and partial characterization of anti cancer protein from *Lysinibacillus sphaericus* against HEPG2 cancer cell line.** Int. J. Adv. Res. Biol. Sci. 2019. 6(1): 170-175. ISSN: 2348-8069.

Bavithra P.S., Monisha M., Swathi G. and Arun P. **Synthetic Bone Scaffolds In Tissue Engineering**. EJPMR, 2019,6(3), 232-235. ISSN : 2394 -3211.

Dharmaraj G, Arun P and Shanmugaraju. V. **Partial Purification and Characterization of Antimicrobial Protein from *Pseudomonas aeruginosa***. Int. J. Adv. Res. Biol. Sci. 2019. 6(1): 163–169. ISSN: 2348-8069.

Ishwarya.R, Kousalya.N, Logeshwaran.V, Sabarinath.K, Sandhiya.S ,Arun.P. **A Review on *Vitex negundo* Linn.** International Journal of Engineering Applied Sciences and Technology, 2019. Vol. 4, Issue 8, Pages 195-198. ISSN No. 2455-2143.

Kousalya.N, Ishwarya.R, Logeshwaran.V, Sabarinath.K, Sandhiya.S, Arun.P. **A Review about Bioactive Compounds of Fenugreek (*Trigonella foenum-graceum*)**. International Journal of Engineering Applied Sciences and Technology, 2019. Vol. 4, Issue 7, Pages 332-335. ISSN No. 2455-2143.

Monisha M., Swathi G., Bavithra P. S. and Arun P. ***Ixora coccinea* - A Review**. EJBPS, 2019, Volume 6, Issue 5,143 – 145. ISSN No.2349 – 8870.

Monisha M., Swathi G., Bavithra P. S. and Arun P. **Conservation Of Plant Materials By Cryopreservation - A Review**. EJBPS, 2019, Volume 6, Issue 3,216 - 220. ISSN No.2349 – 8870.

Sabarinath.K, Sandhiya.S, Ishwarya.R, Logeshwaran.V, Kousalya.N, Arun P.**A Review of *Tridax procumbens* and its Activity**. International Journal of Engineering Applied Sciences and Technology, 2019, Vol. 4, Issue 8,Pages 192-194. ISSN No. 2455-2143.

Sandhiya . S, Sabarinath .K, Ishwarya .R, Logeshwaran .V, Kousalya.N, Arun P. **Review on *Hemigraphis colorata* and its Properties**. International Journal of Engineering Applied Sciences and Technology, 2019, Vol. 4, Issue 7,Pages 336-338. ISSN No. 2455-2143.

Swathi Ganesan and Arun Palanisamy. **Green Synthesis of Magnesium Nanoparticles from *Magnolia champaca* and *Chrysanthemum grandiflorum* – A Comparative Study**. JETIR June 2019, Volume 6, Issue 6, 117 – 124. ISSN-2349-5162.

Swathi G., Monisha M., Bavithra P. S. And Arun P. **Biological Activities of *Champaca (Magnolia Champaca)* Plant – A Review**. EJBPS, 2019, Volume 6, Issue 3, 443-449. ISSN No.2349 – 8870.

Swathi G., Monisha M., Bavithra P.S. and Arun P. ***Camellia sinensis* (Tea Plant) – A Review**. EJPMR, 2019,6(3), 225-231. ISSN 2394 – 3211.

Deeshna, K. P. Athira, S. Abinaya, S. Dhanyaa, P. Arun. **Microbial Remediation of Spilled Petroleum.** International Journal of Research in Engineering, Science and Management.2020, 3(4), 2020, 630 – 632. ISSN 2581-5792.

Athira. KP, Deeshna, Abinaya.S, Dhanyaa.S and Arun.P. **Advance in Bioprinting Technology and its Application- Review.** SIRJ-MBT, 2020, 7(2),1 -18. ISSN 2349-0101.

S. Dhanyaa, S. Abinay, Deeshna, K. P. Athira, P. Arun. **Therapeutic, Medicinal Uses and Food Applications of *Aloe Barbadensis Miller*.** International Journal of Research in Engineering, Science and Management.2020, 3(5), 283 – 285. ISSN 2581-5792.

Abinaya. S, Dhanyaa. S, Deeshna, Athira. K. P and Arun. P. **A Review on Therapeutic Uses of *Nigella Sativa*.** SIRJ-APBBP,7(3), 2020, 13 – 31. ISSN 2349 – 0128.

Gayathiri G. S., Precilla Jennifer R. D. and Arun P. **Bioprospecting Marine Microorganisms for the Production of Antibiotics and its Future Perspectives.** European Journal of Pharmaceutical and Medical Research. 2020,7(6), 281-284. ISSN 2394-3211.

Aanandha ShyniJ, Dharani A , Fahmitha AfsinK, Renuga K ,Arun.P. **Comparative Evaluation of Trends and Challenges Faced by Conventional and Nanomaterial-Based Remedies for the Treatment of Type 1 Diabetes.** Journal of Emerging Technologies and Innovative Research (JETIR),2022, 9(2), 410 – 421. ISSN-2349-5162.

Jenet Johnson, Arun Palanisamy. **Formulation of Anti-Arthritic Herbal Spray using Leaves of *Tinospora cordifolia* and Rhizome of *Zingiber officinale*.** International Journal of All Research Education and Scientific Methods (IJARESM). 2023, 11(7), 1328 – 1335. ISSN: 2455-6211.

Abivarshini Balakrishnan, Vishnugiri. M, Rahul .R and Arun .P. **Production and Characterization of Cellulose Nanofibers from Cow Dung Waste.** Journal of Xidian University. Volume 18, Issue 9, 2024. <https://doi.org/10.5281/Zenodo.13762951> ISSN No: 1001-2400.

V. Shanmugaraju, S. Alice Keerthana and P. Arun. **Phosphate Solubilising Bacteria; A Promising Approach from Mangrove Forests – A Review.** Indian Journal of Natural Sciences. Volume 15, Issue 86, 2024. ISSN: 0976 – 0997.

### Consultancy

Year	Nature of Consultancy	Organization	Duration	Amount(Rs)
2024 - 25	BTB Consultancy	Book: Medicinal Phytochemicals Exploring Nature's Pharmacy INAM Pathipagam	-	20,763.00
2020-21	Project in Biology for IB diploma program	The Indian Public School	3 days	15,815.00
2018-19	Project in Biology for IB diploma program	The Indian Public School	6 days	31,950.00
2017-18	Project in Biology for IB diploma program	The Indian Public School	6 days	37,050.00
2015-16	Project in Biology for IB diploma program	The Indian Public School	6 days	43,250.00

### Detail of Patents

S . No	Patent Title	Name of Applicant(s)	Patent No.	Award Date	Agency/Country	Status
1.	<i>In Silico</i> Based Analysis of Possible Side Effects of Biomolecules Used for Treating Blood Clots	Dr. Parameswaran Chidambara Rajan, Dr. Kandasamy Arungandhi, Dr. Mathur Nadarajan Kathiravan, Dr. Arun Palanisamy, Dr. Poongothai Muthuswamy	2022410 113 68A	March 11 <sup>th</sup> , 2022	Patent Office Chennai	Patent Application Filed
2.	AI Based Chlorophyll Determination Device in Leaf Tissues	Dr. M.N.Kathiravan, Dr. P. Arun, Dr.M.Shanmugavadivu, Dr.M.Poongothai, Dr. K.Kalimuthu Dr. P.Chidambara Rajan	421987-001	02/07/2024	Patent Office	Design Registered

## Presentations in Conference

**Plant based Proteins and its derivatives.** National level conference on Probiotics, Prebiotics Postbiotics and Biofortication: The Future of Human Health and Nutrition. Centre of Excellence in Life Sciences, Department of Biotechnology, PSGR Krishnammal College for Women, Coimbatore supported by TNSCST on 12 to13- Dec-24.

**AI Driven Drug Discovery and Development.** DBT Sponsored National Seminar on Artificial Intelligence (AI) Innovations for Advanced Biological Science and Research. Department of Computer Science with Cognitive Systems, Dr. N.G.P Arts and Science College, Coimbatore on 27-Dec-24.

**Formulation of Termite repellent.** Role of Multidisciplinary Research in Microbiology for Sustainable Development (RMSD-2023). XIV Louis Pasteur International Symposium. Department of Microbiology, Dr. N.G.P. Arts and Science College, Coimbatore. 09-10, 2023.

**Anticancerous activity of *Lysinibacillus sphaericus*.** Empowerment of Rural Communities through Innovations in Science and Technology. Indian Science Congress, Coimbatore chapter, Kongunadu Arts and Science College, Coimbatore. 21 to 22-Feb-20.

**Green Synthesis of Silver Nanoparticles using leaf extract of *Cassia auriculata*.** Innovations and Implementation of Modern Technologies in Agriculture & Horticulture. NABARD sponsored. Department of Biotechnology, Selvam Arts and Science College, Namakkal. 22 to 24-Nov-18.

**Production of Keratinase from Chicken Feather Waste.** National Seminar on challenges and Advances in Microbiology (CAM-2018). Department of Microbiology, Faculty of Science, Annamalai University. 1 to 2-Feb-018.

**Antibacterial activity of *Lysinibacillus sphaericus*.** Department of Biotechnology, Nandha Arts and Science College, Erode. 03-Feb-17.

**Production and Partial Purification of *Lysinibacillus sphaericus*.** DBT and ICMR sponsored National Conference on Traditional and Translational Scenarios in Biological Sciences. Department of Microbiology, Dr. N.G.P. Arts and Science College, Coimbatore. 9 to 10-Sep-16.

**Isolation and identification of *Lysinibacillus sphaericus*.** National Seminar on Recent Innovations in Biosciences (NSRIB '16). Department of Biotechnology, Dr. R.V. Arts and Science College, Coimbatore. 26-Aug-16.

**Phytochemical analysis of *Senna auriculata*.** National Level Seminar on Frontier Research in Applied Biology and Environmental Sciences (BIOMASS – 2016). Department of Biochemistry. King Nandhivarman College of Arts and Science, Thiruvannmalai. 30-Jan-16.

**The biodiversity of traditional socio-ecological systems.** National Seminar on Biodiversity Products and Industrial Application (BPIA – 2015) by Centre for Biodiversity and Forest Studies (CBFS). Periyar University, Salem. 28 to 29- Sep-15.

**E Learning.** National Conference on Emerging Education Models for 21<sup>st</sup> Century Learner (NCEEM – 2015) by Association of Principals of Colleges of Bharathiar University and UGC – HRD, Bharathiar University. Dr. N.G.P. Arts and Science College, Coimbatore. 01-Aug-15.

**Medicinal Properties of *Cassia auriculata*.** National Conference on Technical Advances in Textiles, Physical and Biological Sciences by Department of Physics, CDF and Biotechnology. Nandha Arts and Science College, Erode. 5 to 6-Feb-15.

**Mathematical Science and its Computational Applications.** DST sponsored International Conference by Department of Mathematics, Dr. N.G.P Arts and Science College, Coimbatore. 11 to 12-Aug-14.

**Problems and Prospects of Rural Banking and its Impact on Empowerment of Rural Households** ICMR sponsored National Seminar by Department of Commerce with Information Technology and Commerce with Professional. 18-Dec-14.

**Technical advances in Textiles, Physical and Biological Sciences** National Conference by Department of Costume Design and Fashion, Physics and Biotechnology at Nandha Arts and Science College, Erode. 5 to 6-Feb-15.

**Advances in Biological Sciences** National Seminar by Department of Biotechnology and Microbiology, Hindusthan College of Arts and Science, Coimbatore. 8-Aug-06.

**Louis Pasteur Memorial Symposium Infectious Diseases** ICMR, New Delhi sponsored National Symposium by Department of Microbiology, Dr.N.G.P Arts and Science college, Coimbatore. 8 to 9-Aug-08.

**Biotechnology Implications and Realities** National Level Conference by Department of Bioscience Sri Krishna Arts and Science College, Coimbatore. 30-Jan-09.

**Inculcating Innovations.** International Seminar by Department of Biochemistry, Dr.N.G.P Arts and Science College, Coimbatore. 6-Mar-09.

**National Cancer Congress : Genetics, Diagnosis and Therapy** ICMR, New Delhi sponsored by Department of Biochemistry,& Clinical Lab Dr.N.G.P Arts and Science college, Coimbatore. 20 to 21-Aug-09.

**III Louis Pasteur Memorial Symposium Communicable Diseases and its Control Measures** by Department of Microbiology, Dr.N.G.P Arts and Science college, Coimbatore. 4 to 5-Aug-10.

**Intensive Integration of environmental Solutions Through Research (NCIHER'11)** National Conference by PWD, Govt. of Tamil Nadu and School of Life Sciences, RVS college of Arts and Science, Coimbatore. 26-Feb-11.

**IV Louis Pasteur Memorial Symposium on Biopharmaceuticals and their Application in Disease and Health Promotion NSBP 2011** ICMR and CSIR, New Delhi sponsored by Department of Microbiology, Dr.N.G.P Arts and Science college, Coimbatore. 4 to 5-Aug-11.

**Innovations in Communicative World(NCICW ,12)** National Conference by Department of Computer Science, Dr.N.G.P Arts and Science college, Coimbatore on 27-Sep-12.

**Mathematical Science and its Computational Aspects (NCMSCA 2013)** National Level Conference by Department of Mathematics, Dr.N.G.P Arts and Science college, Coimbatore. 7-Feb-13.

**Emerging Trends in Microbial Biotechnology** National Seminar DBT sponsored by Department of Microbiology, Kanchi Shri Krishna College of Arts and Science, Kanchipuram. 20-Feb-13.

**Advance Trends in Information Technology** National Conference by Department of Information Technology, Dr. N.G.P Arts and Science College, Coimbatore. 21-Feb-13.

**Recent Trends in Medicinal Plants and their Products** National Conference by Department of Biochemistry and Clinical Lab Technology, Dr. N.G.P Arts and Science College, Coimbatore.18-Sep-13.

**Optimization Techniques and Decision Making Analysis (NCOTDMA-2013)** National Level Conference by Department of Mathematics, Dr. N.G.P Arts and Science college, Coimbatore. 25-Sep-13.

**Recent Advances in Biotechnology and Applied Microbiology** National Seminar DBT sponsored by Department of Microbiology, Kanchi Shri Krishna College of Arts and Science, Kanchipuram. 3-Mar-14.

## Participation in Conference/Seminar

### International

**Nano Comes to Life.** NABE and DST PURSE II Sponsored International Virtual Conference by Annamalai University, Chidambaram. 17-Sep-21.

**The Risks & Rewards of being an entrepreneur.** Ministry of Education Innovation Cell - Institution's Innovation Council (IIC) & Entrepreneurship Development Cell (EDC), Vidya Jyothi Institute of Technology (Autonomous), Hyderabad. 24-Aug-21.

**Effective Research Writing and Scholarly Publishing.** UGC STRIDE Scheme, V.O. Chidambaram College, Thoothukudi. 19 to 20-Aug-21.

**Novel Biotechnological Approach to sustain in Pandemic Scenario.** Department of Biotechnology, SNMV College of Arts and Science, Coimbatore. 18 to 21-May-20.

**Public Health Emergency and Disaster Management.** Department of Biotechnology and Microbiology, Hindusthan College of Arts and Science, Coimbatore. 03-Nov-15.

### National

**IP Commercialization and Technology Transfer.** National level webinar. GRG BIRAC E-YUVA Centre and Department of Botany under the aegis of Centre of Excellence in Life Sciences, PSGR Krishnammal College for Women, Coimbatore, on 06-Sep-24.

**MOOCS and E-Content Development.** UGC sponsored online webinar by Sambalpur University. 20-Sep-21.

**Innovation, IPR, Entrepreneurship, and Start-ups among HEIs.** IIC Online Sessions conducted by Institution's Innovation Council (IIC) of MHRD's Innovation Cell, New Delhi. 28-Apr to 22-May-20.

**National Symposium on Mitochondria in Health and Disease.** Society for Mitochondrial Research and Medicine(SMRM) and Department of Biochemistry and Biotechnology, Kongu Arts and Science College, Erode. 21-Feb-20.

**State Level Seminar on Current Strategies in Forest Resources and Management.** Department of Zoology, VHNSN, Virudhunagar. 16-Feb-18.

**Changing Disease Profile: Challenges Facing Basic and Translational Research in India.** DBT sponsored National Conference by Department of Biochemistry, Dr. N.G.P. Arts and Science College, Coimbatore. 5 to 6-Oct-16.

**Biodiversity Conservation.** 3rd National Conference by Department of Biotechnology. Sree Narayana Guru College, Coimbatore. 30-Sep-15.

**Opportunities and challenges in Bioentrepreneurship** by Department of Biotechnology, Dr.N.G.P Arts and Science college, Coimbatore.24-Sep-14.

**Recent Innovations in Bioscience NSRIB '14** National Seminar by Department of Biotechnology, R.V. Arts and Science college, Coimbatore.17-Oct-14.

**Biodiversity Conservation** National Conference by Department of Biotechnology. 30-Sep-15.

**Momentous Microbes From Menace to Marvel - PSPM 2014 VII** Louis Pasteur Memorial National Symposium by Department of Microbiology, Dr. N.G.P Arts and Science college, Coimbatore.22-Aug-12.

**GENE ARCH 2005** National Level Symposium by Department of Biotechnology, RVS College of Arts and Science, Coimbatore. 26-Sep-05.

**Bioscience "A Sustainable Virtue"** by Department of Microbiology, Dr. N.G.P Arts and Science College, Coimbatore.24-Feb-09.

**Role of Informed consent in Clinical decisions and Research in Hospitals** National conference by Department of Hospital Administration Dr. N.G.P Arts & Science College. 26-Aug-11.

**Achieving Academic Excellence through Internal Quality Assurance Cell (IQAC)** NAAC sponsored State Level Conference by Dr. N.G.P. Arts and Science College, Coimbatore. 9 to 10-Dec-2011.

**Current Trends in Biotechnology and Bioinformatics** DBT sponsored by Department of Botany, Nirmala College for Women, Coimbatore. 2-Mar-12.

**Emerging Trends in Herbal Research & Cancer Therapy** ICMR, New Delhi sponsored National Level Conference by KMCH College of Pharmacy, Coimbatore. 26-Jun-12.

**Harnessing Microbes for Human Health and Resource Recuperation " ISHM 2012"** ICMR and DBT, New Delhi sponsored Louis Pasteur Memorial International Symposium by Department of Microbiology, Dr.N.G.P Arts and Science college, Coimbatore. 7 to 8-Aug-12.

**Bio-Medical Waste Management"** DRDR, New Delhi sponsored National Level Conference by Department of Hospital Administration, Dr.N.G.P. Arts and Science College, Coimbatore and Confederation of Indian Industry. 28-Sep-12.

**An Interface of Biology with Nanotechnology** Symposium by Department of Zoology, Nirmala College for Women, Coimbatore. 8-Oct-12.

**Perception of Microbes in Human Health and Environment PSPM 2013 VI** Louis Pasteur Memorial National Symposium by Department of Microbiology, Dr.N.G.P Arts and Science college, Coimbatore. 22-Aug-12.

### **Participation in Workshop**

**NEP 2020 Orientation & Sensitization Programme.** UGC-Malaviya Mission Teacher Training Centre (UGC-MMTTC), Gandhigram Rural Institute - DTBU, Gandhigram, Dindigul, Tamil Nadu. 01 to 10-Feb-24.

**CIPAM's Workshop on Intellectual Property Rights.** RVS College of Arts and Science, Coimbatore. 4 to 5-Sep-23.

**Environmental Pollution: A Threat to Life in the Air.** Raj Rishi Govt. autonomous College, Rajasthan. 15 to 21-Aug-23.

**Development of eContent: Audio Resources.** Central Institute of Educational Technology, NCERT, 26 to 30-Jun-23.

**Advances in Mushroom Cultivation: A Sustainable Key To Food-Nutritional And Employment Security.** Department of Plant Pathology, N. M. College of Agriculture, Navsari Agricultural University, Navsari and Centre for Advanced Agricultural Science and Technology (CAAST), Navsari Agricultural University, Navsari (Gujarat). 21 to 22-Sep-21.

**Drug Engineering through Bioprospecting, (Online)** AICTE Training and Learning (ATAL) Academy association with Department of Biotechnology, Dr. N.G. P. Arts and Science College, 12 to 16-Jul-21.

**Entrepreneurial Skill Development and Career Opportunities in Biological Sciences.** MPHEQIP World Bank Scheme sponsored E-Workshop. Zoology and Biotechnology Department, Govt. Girls' P.G. College, Ujjain. 24 to 30-Jun-21.

**High End Characterization of Microalgae.** TERI - Deakin Nanobiotechnology Centre. 03 to 04-Mar-21.

**Science Academics Science Leadership workshop.** University of Punjab. 22 to 28-Jun-20.

**Let's dock to dock Corona.** Department of Biotechnology, Bannari Amman Institute of Technology, Sathyamangalam. 18 to 19-Apr-20.

**Intellectual Property Rights.** DST, New Delhi and TNSCST sponsored. PSG College of Arts and Science, Coimbatore. 28 to 29-Jan-20.

**Animal Tissue Culture Techniques.** DBT STAR College Scheme. Department of Biotechnology, Dr. N.G.P Arts and Science College, Coimbatore. 30-Mar-19.

**Enablers of E-Teaching and E-Learning (EEE).** UGC Sponsored. Department of Business Administration, School of Commerce and Management, Avinashilingam Institute for Home Science and Higher Education for Women, Coimbatore. 06 to 08-Mar-19.

**Health Risk Assessment of Nanoparticles.** International Workshop. Faculty of Basic and Applied Sciences and Biosciences, Dr. N.G.P Arts and Science College, Coimbatore. 05 to 07-Dec-18.

**Innovations and Implementation of Modern Technologies in Agriculture & Horticulture.** NABARD sponsored. Department of Biotechnology, Selvam Arts and Science College, Namakkal. 22 to 24-Nov-18.

**Recent Advances in Biochemistry.** Science Academics Lecture Workshop. Center for Research and Department of Biochemistry. Dr. N.G.P Arts and Science College, Coimbatore. 10 to 11-Aug-18.

**Group Monitoring Workshop for the INSPIRE Internship Science Camp Organizers.** DST, Ministry of Science & Technology. University of Science and Technology, Meghalaya. 25 to 26-Jun-18.

**Analysis of Spectral Data.** Center for Research, Dr. N.G.P Arts and Science College, Coimbatore. 30-Jan-17.

**Data Science Research – Biological Data Management.** DBT Sponsored. Centre for Biodiversity Informatics, Department of Botany, Jamal Mohamed College, Trichy. 23 to 25-Jan-17.

**Mushroom Cultivation.** Department of Plant Pathology, Centre for Plant Protection Studies, Tamilnadu Agricultural University (TNAU), Coimbatore. 28-Aug-14.

**Bee Keeping.** Department of Entomology, Centre for Plant Protection Studies, Tamil Nadu Agricultural University (TNAU), Coimbatore. 16-Sep-14.

**Generation and Purification of Polyclonal and Monoclonal Antibodies for the Diagnosis of Infectious Diseases.** National Workshop. Department of Microbiology, PSG College of Arts and Science, Coimbatore. 3 to 4-Oct-05.

**Motivation, Counseling and Commitment in Teaching Profession.** Dr.N.G.P. College of Education, Coimbatore. 10-Jun-06.

**Molecular Immunotechniques.** Medox Biotech India Ltd in Department of Biotechnology, Dr. N.G.P Arts and Science College, Coimbatore. 19 to 20-Jul-06.

**Auditing the QUALITY MANAGEMENT SYSTEMS ISO 9001:2000.** Dr.N.G.P Arts and Science College, Coimbatore. 30-Nov-06, 01-Dec-06, 04-Dec-06.

**Issues in Higher Education.** Association of Principals of Colleges Bharathiar University UGC Academic Staff College Bharathiar University. 29-Oct-10.

**Hands on Training in Herbal Drug Standardization Using HPLC and HPTLC.** CSIR Sponsored. KMCH College Of Pharmacy, Coimbatore. 19-Nov-10.

**Bioinformatics Tools, Molecular Modeling and Docking software.** Sai's Bioscience Research Institute and Department of Biotechnology, Dr.N.G.P Arts and Science College, Coimbatore. 27 to 29-Dec-10.

**Molecular Biology Techniques in Microbiology.** DBT sponsored. CFTRI Mysore. 16-Nov-11 to 02-Dec-11.

**Downstream Processing and its applications.** Department of Biotechnology, Dr. N.G.P. Arts and Science College and CBNR, Coimbatore. 05 to 16-Feb-13.

**Role of Computer in Tamil Teaching.** Dr. N.G.P. Arts and Science College and Dr. N.G.P. College of Education, Coimbatore. 11-Mar-13.

#### **Participation in Refresher Course**

**Environmental Sciences (Interdisciplinary).** UGC-HRD Centre, Bharathiar University, Coimbatore. 16 to 30-May-17.

**MBA - PPC (Management, Business, Administration - Present & Post Crisis).** Continual & Advanced Learning Lounge (CALL), SA Curricula Advanced Support System, S.A. College of Arts and Science, Chennai. 14-Apr to 04-May-20.

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

##### **Conference**

Joint Organizing Secretary, MARINA '25 - International Conference on “Integrating Indian Knowledge Systems (IKS) with Cutting-Edge Biotechnology and Innovative Technologies to achieve Sustainable Development Goals (ICONIKS - BIOTECH 2025)”, Department of Biotechnology, Dr. N.G.P. Arts and Science College, Coimbatore. 22-Mar-25.

Organizing Secretary, Marina '23 - International Conference on “Expedition of Bioprospecting and its Emerging Trends: (ICEBET-2023), Department of Biotechnology, Dr. N.G.P. Arts and Science College, Coimbatore. 30-Sep-23.

Organizing Committee member, 11<sup>th</sup> National Conference on “Recent trends in Bioprospecting and its challenges” (MARINA'19), Department of Biotechnology, Dr. N.G.P. Arts and Science College, Coimbatore, 16-Oct-19.

Organizing Committee member, National Seminar on Biodiversity and its Prospecting (NSBP19) under DBT STAR College Scheme, Department of Microbiology and Department of Biotechnology, Dr. N.G.P. Arts and Science College, Coimbatore, 28-Feb-19.

Organizing Committee member, 10<sup>th</sup> National Conference on “Bioprospecting – Indian perspectives, challenges & opportunities (MARINA’17), Department of Biotechnology, Dr. N.G.P. Arts and Science College, Coimbatore. 28-Dec-17.

Organizing Committee member, 9<sup>th</sup> National Conference on “Genomics and Proteomics in Bioprospecting – Role in Healthcare Development (MARINA’16), Department of Biotechnology, Dr. N.G.P. Arts and Science College, Coimbatore. 21-Dec-16.

Joint Secretary for 8<sup>th</sup> National Conference Marina'15 on "Bioprospecting Initiatives and Challenges" organized by Department of Biotechnology, Dr. N.G.P. Arts and Science College, Coimbatore. 28 to 29-Dec-15.

Organizing committee member for Two day 7<sup>th</sup> National conference Marina'14 on "Biotechnology Present and Future for Sustainable Healthcare Development" organized by Department of Biotechnology, Dr. N.G.P. Arts and Science College, Coimbatore. 29 to 30-Dec-14.

Organizing committee member for Bioentrepreneur Meet, Opportunities and Challenges in Bioentrepreneurship organized by Department of Biotechnology, Dr. N.G.P. Arts and Science College, Coimbatore. 24- Sep-14.

Organizing committee member for Dr. Nalla G Palaniswami Endowment Seminar on “Innovations in Biotechnology organized by Department of Biotechnology, Dr. N.G.P. Arts and Science College, Coimbatore. 28- Feb-14.

Organizing committee member for Two day national conference on "Biotechnology Present and Future" organized by Department of Biotechnology, Dr. N.G.P. Arts and Science College, Coimbatore. 26 to 27-Sep-13.

Organizing committee member in the Two days National level Conference (Funded by DRDO), on "Perspectives of Biotechnology for Healthcare Development" organized by Department of Biotechnology, Dr. N.G.P. Arts and Science College, Coimbatore. 29 to 30-Dec-11.

Organizing committee member in the Two days National level Conference on “Recent Trends in Biotechnology” (Funded by DRDO), Dr. N.G.P. Arts and Science College, Department of Biotechnology, 30-Sep to 1- Oct-10.

Organizing committee member in the Two day National Conference , (Funded by DRDO and ICMR) on "Advance Trends in Biotechnology" organized by Department of Biotechnology, Dr. N.G.P. Arts and Science College, Coimbatore. 18 to 19-Dec-09.

Organizing committee member in one day endowment seminar on "Innovations in Biotechnology" organized by Department of Biotechnology, Dr. N.G.P. Arts and Science College, Coimbatore.

Organizing committee member in the Two day National Conference on “Advanced Trends in Biotechnology”, organized by Department of Biotechnology, Dr. N.G.P. Arts and Science College. 19 to 20- Dec-08.

Organizing committee member in the two day National Conference on “Advanced Trends in Biotechnology”, Department of Biotechnology, Dr. N.G.P. Arts and Science College 2 to 3- Feb-07.

### **Workshop**

Organizing Secretary, DBT-STAR STATUS sponsored “BIO QUIZ `25” (Inter Departmental Quiz Competition), organized by Department of Biotechnology at Dr. N.G.P Arts and Science College, Coimbatore. 28-Feb-25.

Organizing Secretary, DBT – STAR College Scheme – STATUS Inter Departmental Workshop On “*In vitro* Culture of Chick Embryo Cells-From Primary Culture to Cells Passage”, organized by Department of Biotechnology at Dr. N.G.P Arts and Science College, Coimbatore. 27-Sep-24.

Organizing Secretary, DBT – STAR College Scheme - STATUS Inter Departmental Workshop On “Green Synthesis of Silver and Gold Nanoparticles and its applications”, organized by Department of Biotechnology at Dr. N.G.P Arts and Science College, Coimbatore. 18-Sep-24.

Organizing Secretary, DBT-STAR status sponsored “BIO QUIZ `24” (Inter Collegiate Quiz Competition), organized by Department of Biotechnology at Dr. N.G.P Arts and Science College, Coimbatore. 28-Feb-24.

Organizing Committee member, DBT-STAR scheme sponsored Hands on Training Program on “Microbial Isolation and Molecular Analysis” for KMCH College of Pharmacy Students, organized by Department of Biotechnology at Dr. N.G.P Arts and Science College, Coimbatore. 06 to 07-Nov-21.

Organizer, DBT-STAR scheme sponsored E Workshop on Competitive Intelligence in Life Science, organized by Department of Biotechnology at Dr. N.G.P Arts and Science College, Coimbatore, 23-Oct-21.

Organizer, DBT-STAR scheme sponsored E Workshop on Working of Commercial labs, organized by Department of Biotechnology at Dr. N.G.P Arts and Science College, Coimbatore, 12-Oct-21.

Organizer, DBT-STAR scheme sponsored Workshop on Phylogenetic Tree construction by MEGA 6.3, organized by Department of Biotechnology at Dr. N.G.P Arts and Science College, Coimbatore, 20-Apr-21.

Organizer, DBT-STAR scheme sponsored Workshop on Quantification of Phytochemical Extraction from Medicinal Plants using nanophotometer, organized by Department of Biotechnology at Dr. N.G.P Arts and Science College, Coimbatore, 05-Mar-21.

Organizer, DBT-STAR scheme sponsored Workshop on Phytochemical Extraction from Medicinal Plants, organized by Department of Biotechnology at Dr. N.G.P Arts and Science College, Coimbatore, 22-Feb-21.

Organizer, DBT-STAR scheme sponsored Workshop on Stereomicroscopic techniques, organized by Department of Biotechnology at Dr. N.G.P Arts and Science College, Coimbatore, 19-Feb-21.

Organizing Committee member, DBT-STAR scheme sponsored Workshop on Animal Cell Culture Technique, organized by Department of Biotechnology at Dr. N.G.P Arts and Science College, Coimbatore, 30-Mar-19.

Organizing Committee member, DBT-STAR scheme sponsored Workshop on Operations and Applications of UV-Visible Spectrophotometer, organized by Department of Biotechnology at Dr. N.G.P Arts and Science College, Coimbatore, 21-Feb-19.

Organizing Committee member, DBT-STAR scheme sponsored Workshop on Protein & Nucleic Acid Quantification with Nanophotometer, organized by Department of Biotechnology at Dr. N.G.P Arts and Science College, Coimbatore, 19-Feb-19.

Organizing Committee member, DBT-STAR scheme sponsored Workshop on PCR and Nanophotometer, organized by Department of Biotechnology at Dr. N.G.P Arts and Science College, Coimbatore, 13-Feb-19.

Organizing Committee member, DBT-STAR scheme sponsored Workshop on Microtome, organized by Department of Biotechnology at Dr. N.G.P Arts and Science College, Coimbatore, 07-Feb-19.

Organizing Committee member, DBT-STAR scheme sponsored Workshop on Nanophotometric Techniques, organized by Department of Biotechnology at Dr. N.G.P Arts and Science College, Coimbatore, 10-Jan-19.

Coordinator, Inspire Internship Science Camp funded by Department of Biotechnology (DST), New Delhi, organized by Department of Biotechnology at Dr. N.G.P. Arts and Science College, Coimbatore. 11 to 15-Aug-18.

Coordinator, Inspire Internship Science Camp funded by Department of Biotechnology (DST), New Delhi, organized by Department of Biotechnology at Dr. N.G.P. Arts and Science College, Coimbatore. 29-Sep to 03-Oct-18.

Organizing Committee member, National Workshop on Data Analytics and its applications in Biotechnology (Sponsored by DBT. New Delhi), Department of Computer Technology and Department of Biotechnology at Dr. N.G.P. Arts and Science College, Coimbatore, 14 to 15-Feb-19.

Organized a Two Days Hands on Workshop on "Downstream Processing and its applications" organized by Department of Biotechnology, Dr. N.G.P. Arts and Science College and CBNR, Coimbatore. 15 to 16-Feb-13.

#### **Student Development Programme Organized**

Total Numbers: **12** in Department of Biotechnology, Dr. N.G.P. Arts and Science College, Coimbatore.

#### **Faculty Development Programme attended**

**Educational Technology and ICT.** NPTEL-AICTE Faculty Development Programme. Jan-Apr-25.

**Revolutionizing Healthcare and Biotechnology: The Role of AI and Computational Techniques.** Sethu Institute of Technology. AICTE Training and Learning (ATAL) Academy Faculty Development Program. 03 to 08-Feb-2025.

**A Captivating Exploration of Artificial Intelligence Influence on Shaping the Contemporary Landscape in the Healthcare and Essence of Pharmacy.** School of Pharmaceutical Sciences, Vels Institute of Science Technology and Advanced Studies (VISTAS), India. 19 -23-Feb -24.

**Empowering Education for Innovation – A NEP Perspective.** Center for Professional Development. Dr. N.G.P. Arts and Science College, Coimbatore. 30 Jun – 04 Jul – 23.

**How to open Trading & Demat Account.** Department of Commerce BPS, Dr. N.G.P. Arts and Science College, Coimbatore and mCube Academy. 07-Oct-21.

**Effective Teaching & Learning Processes.** Yavarum Kelir Skill Development Association, Namakkal and Marudhar Kesari Jain College for Women, Vaniyambadi. 12 to 18-Sep-21.

**Drug Engineering through Bioprospecting.** AICTE Training and Learning (ATAL) Academy FDP, Dr. N.G.P. Arts and Science College, Coimbatore. 12 to 17-Jul-21.

**Research Methodology and Pedagogy for Tertiary Education.** Dr. N.G.P. Arts and Science College, Coimbatore. 15 to 21-Jun-21.

**Bioinnovation, Patenting and Entrepreneurship Opportunities in Biotechnology for Sustainable Environment.** Department of Biotechnology, Oxford College of Engineering, Bengaluru. 29 to 30-Mar-21.

**Entrepreneurship.** Bharathidasan College of Arts and Science, Erode. 20-Jan to 04-Feb-21.

**Educational Management and Leadership for Sustainable Environment.** Panjab University, Chandigarh. 10 to 30-Dec-20.

**Contemporary Advances in Bio-nanotechnology.** National Institute of Technology, Andhra Pradesh. 02 to 06-Nov-20.

**Become the Role Model.** Hindusthan College of Arts and Science, Coimbatore. 12 to 17-Oct-20.

**Current Progress and Future Prospects of Biotechnology.** Chaitanya Bharathi Institute of Technology, Telangana. 08 to 16-Jun-20.

**Moodle learning management.** Dr. N.G.P. Arts and Science College, Coimbatore. 04 to 10-May-20.

**Managing Online Classes and Co-Creating MOOCs.** MHRD sponsored FDP. Ramanujam College, University of Delhi. 20-Apr to 06-May-20.

**Quality initiatives in Higher Education.** Dr. N.G.P. Arts and Science College, Coimbatore. 13 to 20-Apr-20.

**Quality Measures in Higher Education.** Dr. N.G.P. Arts and Science College, Coimbatore, 03 to 09-Dec-19.

**Quality measures in Higher Education.** Dr. N.G.P. Arts and Science College, Coimbatore. 03 to 09-Dec-18.

**ICT in Education.** Dr. N.G.P Arts and Science College, Coimbatore. 06-Feb-09.

**Evaluation Techniques.** Dr. N.G.P Arts and Science College, Coimbatore. 09-Jan-09.

**Quality Teaching.** Dr. N.G.P Arts and Science College, Coimbatore. 05-Dec-08.

### **Member in BoS**

Board of Biotechnology, Dr. N.G.P. Arts and Science College, Coimbatore, since 2015.

### **Member in BoS - Subject Expert**

BoS of PG Biotechnology at Bharathiar University, Coimbatore, during 2022 - 2025.

BoS of Biotechnology at Hindusthan College of Arts and Science, Coimbatore, during 2021 - 2024.

BoS of Biotechnology at Sri Sakthi Kailash College for Women, Salem since 2025.

### **Awards and Honors Received**

Fellowship from DBT, India for attending training program in CFTRI, Mysore.

Student Project Scheme (2024-25), Tamil Nadu State Council for Science and Technology, Chennai.

### **Gene Bank Submissions**

R. Surya and P. Arun. *Acinetobacter johnsonii* strain NGP SR246 16S ribosomal RNA gene, partial sequence. MH109324.1

### **Books and Book Chapters Published**

Book: Medicinal Phytochemicals Exploring Nature's Pharmacy. ISBN No: 978-93-9513-78-05.

Edited Book: "Integrating Indian Knowledge Systems (IKS) with Cutting-Edge Biotechnology and Innovative Technologies to Achieve Sustainable Development Goals". ISBN NO: 978-93-95137-30-0 3

Book: Nanobiotechnology – Small Wonders, Big Impact. ISBN No: 978-81-9831-45-81.

Book Chapters: 26.