

## Profile



**Name** : Dr. P. CHIDAMBARA RAJAN  
**Department** : BIOTECHNOLOGY  
**Designation** : PROFESSOR& HEAD  
**Qualification** : M.Sc., M.Phil., M.Sc (IT)., Ph.D. PGDBI  
**Phone** : +91 97892 90383, 80728 30815  
**Experience** : Teaching: 20Yrs and Research: 20Yrs  
**Area of Specialization(s)** : Microbial Biotechnology and Cancer Biology  
**Email (Personal ID)** : prchida@gmail.com ; drchidambararajan@drngpasc.ac.in

S. No.	ID	Link
1	Vidwan	89885 ( <a href="https://vidwan.inflibnet.ac.in/profile/89885/ODk4ODU%3D">https://vidwan.inflibnet.ac.in/profile/89885/ODk4ODU%3D</a> )
2	Orcid	<a href="https://orcid.org/0000-0002-3632-8302">https://orcid.org/0000-0002-3632-8302</a>
3	Scopus	<a href="https://www.scopus.com/authid/detail.uri?authorId=57215822894">https://www.scopus.com/authid/detail.uri?authorId=57215822894</a>
4	Google Scholar	<a href="https://scholar.google.co.in/citations?hl=en&amp;user=aRl-W3QAAAAJ">https://scholar.google.co.in/citations?hl=en&amp;user=aRl-W3QAAAAJ</a>
5	Microsoft Academic Search	<a href="https://academic.microsoft.com/#/profile">https://academic.microsoft.com/#/profile</a>
6	Research ID	<a href="https://ResearchID.co/prchida">https://ResearchID.co/prchida</a> <a href="https://ResearchID.co/rid51387">https://ResearchID.co/rid51387</a>
7	Web of Science	<a href="http://www.webofscience.com/wos/author/record/C-8520-2014">http://www.webofscience.com/wos/author/record/C-8520-2014</a>

## Academic Qualifications

Degree	Branch	Institution/ University Name	Year of Graduation
Ph.D.	Biotechnology	Dr. N.G.P. Arts and Science College, Bharathiar University- Coimbatore	December 2014.
M.Phil.	Biotechnology	Bharathidasan University- Tiruchirappalli, Tamil Nadu, India	May 2005
PG	Gene Technology	JJ College of Arts and Science- Pudukkottai, Bharathidasan University-Tiruchirappalli	May 2003
	Information Technology	PIDE- Periyar University-Salem, Tamil Nadu, India.	May 2019

UG	Biochemistry	Muthayammal College of Arts and Science-Rasipuram, University of Madras-Chennai, Tamil Nadu, India.	October 2000
----	--------------	---	--------------

### Additional Qualifications

Diploma / Vocational / Certification	Area of Specialization	Institution / University / Agency Name	Year
Diploma	Computer Application (DCA)	Shivasri Computer Education Institute, Salem	1995
Diploma	Electronic Commerce (D. Ecom)	SSI, Salem	2000
Online	1.Stress Management 2. Introduction to Research 3. Entrepreneurship and IP Strategy	NPTEL	Oct 2018 Nov 2019 Nov 2020
PG Diploma	Bioinformatics	Dr. N.G.P. Arts and Science College, Bharathiar University-Coimbatore	Feb 2024

### Projects

#### Completed

Project Title	Agency	Amount	Duration
Student Project (Ms. Harsini)	Tamil Nadu State Council for Science and Technology, Chennai	Rs. 7,500	2018-19
Student Project (Ms. Lavanya)	Tamil Nadu State Council for Science and Technology, Chennai	Rs. 7,500	2019 -20
Student Project (Mr. Naveen P)	Tamil Nadu State Council for Science and Technology, Chennai	Rs. 7,500	2022 -23

## Seed Money

### Completed

Project Title	Agency	Amount	Duration
Extraction of Bioactive components from <i>Ocimum basilicum</i> and <i>Andrographis paniculata</i>	Management	Rs. 5,000	2016-17
Determination of alpha amylase inhibitory activity, antioxidant activity and cytotoxicity activity using <i>Ultra lactuca L</i> and <i>Halymenia dilatanzardini</i>	Management	Rs. 5,000	2017-18
Production of plant based biopesticides a healthy alternative for organic food production.	Management	Rs. 5,000	2021-22

## Research Guidance

Programme	No. of Scholars	
	Completed	Pursuing
Ph. D.	01	(FT 03+ PT 02) =05
M. Phil.	08	-

## Research Publications (Indexed)

1. Kannabiran R, Logeshwaran Vellingiri, P Chidambara Rajan and Abilash G. Isolation and Characterization of Polyethylene – Degrading Microbes from the Digestive System of *Perionyx excavatus*. *International Journal of Pharmaceutical Science Review and Research*. Vol 84(2). Pp. 47-55. Feb 2024. (UGC Approved)
2. Megala R, Sudhakar P and **Chidambara Rajan P**. Green Synthesis and Characterization of *Amaranthus spinous* and to Analyse it's Antimicrobial Activity. *Indian Journal of Natural Sciences*. Vol 14 No.79. pp. 58504-58511. August 2023. (UGC Approved)
3. Harsini Venkatachalam, Radha Palaniswamy and Chidambara Rajan Parameswaran. Synthesis and Characterization of Polyvinyl Alcohol Film Incorporated with *Tridax*

- procumbens* leaf extract. *Journal of Polymer and Composites*. Vol 11 No.2, pp 40-5. July 2023. (Web of Science)
4. **Chidambara Rajan P**, Megala R and Sudhakar P. Assessment of Antioxidant activity and Anticancer Activity of Plant Leaves of *Amaranthus spinosus*. *Advances in Bioresearch*. Vol.12 No.4 pp.106-114. July 2023(UGC Approved)
  5. Abhay Chaturvedi, Sirivella Yagnasree, Gunjan Chhabra, Chidambararajan P, Amit Chauhan and Ramya Maranan. Efficient Method for Tomato Leaf Disease Detection and Classification based on Hybrid Model of CNN and Extreme Learning Machine. VI. International Conference on Electronics and Sustainable Communication System (ICESC-2023). 1179-1184. (Scopus)
  6. Harisini V, **Chidambararajan P** and Radha Palaniswamy. Formulation and evaluation of herbal lipstick from pigment of *Nyctanthes arbor-tristis*. *Indian Journal of Natural Products and Resources*. Vol. 13 No. 4 pp 574-578, December 2022. (UGC Approved WOS).
  7. Mohana Priya M and **Chidambararajan P**. Food Colorant from Anthocyanins of *Brassica Oleraceavar. Capitata F. Rubr.* *International Journal of All Research Education and Scientific Methods*. Vol. 9 No.5pp 130-137, May 2021. (UGC Approved)
  8. M. Kamaraj, Kamble Sudarshan, S.V.R.K.N. Sonia, **Chidambararajan P** and Addisu Bekele. Upgradation of maize stalk waste as an alternate agrarian raw material for the production of amorphous silica composites. *Journal of Analytical and Applied Pyrolysis*. <https://doi.org/10.1016/j.jaap.2020.104908>. Impact factor: 3.905 Cite score: 6.8.
  9. Mohana Priya M, **Chidambararajan. P**, and M. Lavanya. Use of Natural Pigments as Colorants in Cosmetics – A Review. *J. Eme. Techn. Inn. Res.* Vol. 7 No.3 pp 907-917, March 2020, ISSN: 2346-5162, (UGC APPROVED).
  10. M. Kamaraj, T.G. Nithya, **Chidambararajan P** and Muluken Kebede. Photocatalytic degradation of Bisphenol-A in water under sunlight irradiation over ZnO nanoparticles fabricated by Ethiopian cactus pear fruit peel infusions. *Optik*. <https://doi.org/10.1016/j.ijleo.2020.164539>. (Indexed in SCOPUS and SCI) impact factor: 2.187. cite score: 3.7.
  11. **Chidambararajan P.**, Keerathana V., Priyadharshini K. and Sakthivel B. *In Vitro* Antioxidant and Anticancer Activity of *Ulva lactuca L.* Using *MOLT – 3* Cell lines, A. J. Pharm. Cl. Res. Vol. 12No. 5, pp75-78, May 2019, ISSN: 0974-2441. (UGC Referred)

12. Harisini V. and **Chidambararajan P.** Natural Colorants and Its Uses- A Review, E. J. Pharm. Med. Res. Vol. 6 No.3, pp269-272, March 2019, ISSN: 2394-3211. (Indexed in Web of Science).
13. **Chidambara Rajan P** and Halka Jayachandran. Isolation, Identification and protein profiling of chitinase producing marine bacteria. Int. J. Adv. Multidi. Res. Vol. 5 No. 5, pp78-83, May 2018, ISSN: 2393-8870.
14. Shanmugaraju V. and **Chidambara Rajan P.** A Review on Decolourization of Azo Dye by Micro-Organisms. Int. J. Comph. Res. Bio. Sci. Vol. 5 No. 1, pp10-29, January 2018, ISSN: 2393-8560.
15. Arungandhi K., Vini V., Selvam K and **Chidambara Rajan P.** Isolation and Screening of Laccase Producing Wood Rot Fungi Collected from Western Ghats Area. W. J. Appld. Bio. Biotech. Res. Vol.1 No.1, pp 55- 67, April 2015, ISSN: 2454-5619.
16. **Chidambara Rajan P.**, A. Mahalakshmipriya, V. Shanmugaraju and K. Arungandhi Production of L-Glutaminase by Marine Streptomyce Sp., Isolated from west coast, Kerala, India. W. J. Appld. Bio. Biotec. Res. Vol.1 No.1, pp 38-54, April 2015 ISSN: 2454-5619.
17. Shanmugaraju V., S.Rajesh and **Chidambara Rajan P.** Effect of bacterial biofertilizer on growth of *Lablab purpures L.* Plant. Int. J. Adv. Res. Bio. Sci. Vol. 1 No.1, pp 50-62, April 2014, ISSN: 2348-8069.
18. **Chidambara Rajan. P.**, A. Mahalakshmi Priya, D. Jayapradha and S. Saranyadevi. Isolation and Characterization of Marine Actinomycetes from west coast of India for its Antioxidant Activity and Cytotoxicity. Int. J. Pharm. Bio. Arc. Vol. 3 No. 3, pp 641-645, June 2012, ISSN: 0976-3333. (UGC Referred).
19. Shanmugaraju V., **Chidambara Rajan. P** and N. Sivakumar. Partial Purification and characterization of Anti-MRSA Peptide from marine *Pseudomonas aeruginosa*. Int. J. Cur. Microbio. Appld. Sci. Vol.1 No.1, pp 40-49, December 2012, ISSN:2319-7692.
20. Deepak Varghese, Nithya. N. K, Vidhya. S, **Chidambara Rajan. P**, Regin B. S and Ragavendher. Antitumor Activity of *Tinospora cordifolia* Bark Extract Against Dalton's Lymphoma Ascities in Swiss Albino Mice. Int. J. Biosci Tech, Vol. 3 No.5, pp 55-60, May 2010, ISSN: 0974-3987. (UGC Referred)
21. Deepak Varghese, N.K. Nithya., S. Vidhya, Sachin Pattil, **Chidambara Rajan P.**, Shyam Sunder. Antitumor Activity and Antioxidant status of Ficus Racemosa Bark Extract against

Dalton's lymphoma Ascites in swiss Albion mice. Emer. J. Engi. Sci. Tech, Vol. 1 No.1, pp125-136, January 2009, ISSN: 0974-2050.

22. Shanmugaraju V., **Chidambara Rajan P.**, N. Abirami and K. Rajathi. Antibio gram and GC analysis of *Euphorbia hirta* leaf extract. Ancient Science of Life, Vol. 26 No. 4, pp 1-3, April 2007, ISSN:0257-7941. (Indexed in Web of Science).

#### 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	2022410113 68 A	March 11th, 2022	Patent Office Chennai	Patent Application Filed
2.	AI Based Chlorophyll Determination Device in Leaf Tissues	Dr. N.G.P. Arts and Science College Dr. M. N. Kathiravan Dr. P. Arun Dr. M. Shanmugavadivu Dr. M. Poonogothai Dr. K. Kalimuthu Dr. P. Chidambara Rajan	421987-001	02/07/2024	Patent Office Chennai	Published

#### Books/Reports/Chapters/General articles e

S. No	Title	Author's Name	Publisher	Year of Publication
1.	Synthetic microbial research- challenges and perspectives (Biopigments-Aspects of Bioprospecting)	Poongothai M, Chidambara Rajan P, Mahalakshmi Priya A and Hema S	Darshan Publishers	Jan 2022
2.	A Text Book of Bio Materials and Artificial Organs	Dr. M.N. Kathiravan Mr. M. Mohammed Sahinsha Dr. P. Chidambara Rajan Dr. K. Arungandhi	RK Publishers	2023
3.	The Research of Young Minds (Biotechnological Effective Approach in Science and Technology – BEAST – II)	Naveen P and Chidambara Rajan P	Selfy Developers Pvt Ltd, Karnataka	2023
4.	Pharmaceutical Biotechnology (Lab Manual for PG Students)	Dr. M.N. Kathiravan Dr. P. Chidambara Rajan	Dr. N.G.P. Arts and Science College, Coimbatore	2023
5.	Medicinal Phytochemicals: Exploring Nature's Pharmacy	<b>Editors</b> Dr. M.N. Kathiravan Dr. M. Shanmugavadivu Dr. P. Chidambara Rajan Dr. Arun P Ms. K. Thilagavathi	Inam Pathippagam, Coimbatore	2024
6.	AI, ML and IoT For Sustainable Smart Agriculture Practices	Dr. M.N. Kathiravan Dr. M. Shanmugavadivu Dr. K. Kalimuthu Dr. P. Chidambara Rajan Dr. M.A. Shibu	Cosmas Scientific Publications, Chennai.	2024

### Reviewer in

1. Journal of Pharmaceutical Research International.
2. International Journal of Life Science and Pharma Research.
3. Materials Letters.
4. Journal of Advances in Microbiology
5. Asian Journal of Research in Medical and Pharmaceutical Sciences
6. Asian Journal of Fisheries and Aquatic Research

### Awards / Others

1. University 3<sup>rd</sup> Rank in M.Sc. – Gene Technology April 2003.
2. Received Best Department award among Faculty of Biosciences – AY 2019-20.
3. Received Best Professor – Research Contribution – AY 2020-21.
4. Received Award – Research Fellow – AY 2020-21.

### Consultancy

Nature of Consultancy	Client	Amount	Completion Status
Student IB Project	Students of TIPS	Rs 1,00,000	Completed
Phytochemical Analysis	Amrita Vishwa Vidyapeetham, Coimbatore.	Rs 11,000	Completed

### Presentations in Conference

- 1 Entitle “Personalized Nutrition and Nutrigenomics”, Organized by Department of Biotechnology, PSGR Krishnammal College for Women’s, Coimbatore on December 12<sup>th</sup> and 13<sup>th</sup>, 2024 in National Level Conference on Probiotics, Perbiotics and Biofortification: The Future of Human Health and Nutrition
- 2 Entitle “Traditional Methods of Food Preservation”, in National Seminar on Integration of Traditional Indian Knowledge System into Modern Higher Education: NEP Perspective, Organized by Internal Quality Assurance Cell (IQAC), Dr. N.G.P. Arts and Science College, Coimbatore on July 4<sup>th</sup> and 5<sup>th</sup>, 2024.
- 3 Entitle “Sustainable Living Practices from Indian Tradition”, in National Seminar on Integration of Traditional Indian Knowledge System into Modern Higher Education: NEP Perspective, Organized by Internal Quality Assurance Cell (IQAC), Dr. N.G.P. Arts and Science College, Coimbatore on July 4<sup>th</sup> and 5<sup>th</sup>, 2024.
- 4 Entitle “Integrating Ayurveda and Nutritional Science: A Holistic approach to Health and Well Being”, in National Seminar on Integration of Traditional Indian Knowledge System into Modern Higher Education: NEP Perspective, Organized by Internal Quality Assurance Cell (IQAC), Dr. N.G.P. Arts and Science College, Coimbatore on July 4<sup>th</sup> and 5<sup>th</sup>, 2024.
- 5 Entitle “Chemistry of Indian Spices and their Health Benefits”, in National Seminar on Integration of Traditional Indian Knowledge System into Modern Higher Education: NEP Perspective, Organized by Internal Quality Assurance Cell (IQAC), Dr. N.G.P. Arts and Science College, Coimbatore on July 4<sup>th</sup> and 5<sup>th</sup>, 2024.
- 6 Entitle “Implementation of Multidisciplinary Education and Flexibility in Curriculum Design as per NEP 2020”, in Impact of New Education Policy Among Future



Generation, organized by Post Graduate Department of Commerce with Computer Applications, Nallamuthu Gounder Mahalingam College, Pollachi on August 10, 2023.

- 7 Entitle “Efficient Method for Tomato Leaf Disease Detection and Classification based on Hybrid Model of CNN and Extreme Learning Machine”, in 4<sup>th</sup> International Conference on Electronics and Sustainable Communication Systems (ICESC-2023), organized by Hindusthan Institute of Technology, Coimbatore on 6-8 July 2023.
- 8 Entitle “Development of Plant Based Biopesticides and its formulation study”. Interdisciplinary Approaches on Dynamics of Bioscience Research, organized by faculty of Biosciences, Dr. N.G.P Arts and Science College, Coimbatore on March 28,2023.
- 9 Entitle “Cytotoxic activity of *Ulva lactuca* Ethanol extract using MTT assay”. Interdisciplinary Approaches on Dynamics of Bioscience Research, organized by faculty of Biosciences, Dr. N.G.P Arts and Science College, Coimbatore on March 28,2023.
- 10 Entitle “Production of Transdermal patch from Tea wastes”. Role of Multidisciplinary Research in Microbiology for Sustainable Development (RMSD-2023), organized by Department of Microbiology, Dr. N.G.P Arts and Science College, Coimbatore on March 28,2023.
- 11 8<sup>th</sup> International Conference on “Recent Advances in Bioscience”, organized by Department of Biotechnology, KSG College of Arts and Science, Coimbatore on October 28, 2022.
- 12 Indian Science Congress Association, Kolkata Sponsored National Conference on Empowerment of Rural Communities Through Innovations in Science and Technology, Kongunadu Arts & Science College, Coimbatore, 21& 22–Feb-20.
- 13 DST- DAAD Project based personal Exchange Programme Sponsored, International workshop on Health Risk Assessment of Nanoparticles, organized by faculty of Basic and Applied Sciences, Dr. N.G.P. Arts and Science College, Coimbatore, December 5<sup>th</sup> to 7<sup>th</sup>, 2018.
- 14 NABARD Sponsored National Seminar on Innovations and Implementation of Modern Technologies in Agriculture & Horticulture – NABARD-2018, Selvamm Arts & Science College, Namakkal, PG and Research Department of Biotechnology on 22-Nov-18 to 24 Nov-18.

- 15 National Seminar on “Challenges and Advances in Microbiology (CAM-2018)”, held at Annamalai University, organized by Department of Microbiology on 1& 2- Feb-18.
- 16 One day national seminar on “**Recent Innovations in Biosciences**” Dr. R. V. College of Arts and Science, Karamadai, Coimbatore, Department of Biotechnology on 26–Aug- 16.
- 17 International Symposium on “Bioscience Research for Present and Future”, “Biomillennium’17”, Vivekanandha College of Arts and Sciences for Women, Department of Biotechnology on 7and 8-Mar-17.
- 18 International Conference on “Frontiers in Biotechnology”, Nandha Arts & Science College, Erode, Department of Biotechnology on 3- Feb- 17.
- 19 National seminar on “Frontier Research in Applied Biology & Environmental Sciences”, King Nandhivarman College of Arts & Science, Thellar, organized by Department of Biochemistry on 30- Jan-16.
- 20 UGC Sponsored National seminar on “Recent Trends in Botany (RTB-2016)”, Jamal Mohamed College, Tiruchirappalli, PG & Research Department of Botany on 24- Feb-16.
- 21 National seminar on “Recent Innovations in Biosciences NS RIB ’16”, Dr. R.V. Arts and Science College, Karamadai, Coimbatore, organized by Department of Biotechnology on 26- Aug-16.
- 22 Twoday National seminar on “Biodiversity products and Industrial Application (BPIA-2015)”, Periyar University, Salem, organized by Centre for Biodiversity and Forest Studies (CBFS) on 28and 29-Sep-15.
- 23 National Conference on “Technical Advances in Textiles, Physical & Biological Sciences”, held at Nandha Arts and Science College, Erode, Department of Costume Design & Fashion, Physics and Biotechnology on 5 & 6– Feb-15.
- 24 DBT Sponsored Two Day’s National Seminar on “Recent Advances in Biotechnology and Applied Microbiology”, Kanchi Sri Krishna College of Arts and Science, Kancheepuram, Department of Microbiology on 3and 4- Mar-14.
- 25 Two Days National Seminar on “Emerging Trends in Microbial Biotechnology”, held at Kanchi Sri Krishna College of Arts and Science, Kancheepuram, Department of Microbiology on 20 and 21- Feb -13.

- 26 One day National level conference on “Biotechnology-Implications and Realities”, held at Sri Krishna Arts and Science College, Coimbatore. Department of Biotechnology, on 30- Jan- 09.
- 27 One-day National level Seminar on “Advances in biological Sciences”, Hindustan College of Arts and Science, Coimbatore. Department of Biotechnology and Microbiology on 8-Aug-06.

#### • **Participation in Seminars**

1. ABRSM - New Delhi, THETA – Tamil Nadu, UVAS – Kerala Sponsored Two Day National Seminar on “Envisioning New Bharat: Educational Reforms and Indigenous Systems”, at hotel Vivanta Coimbatore on 8<sup>th</sup> and 9<sup>th</sup> June 2024.
2. DST FIST sponsored National seminar on “Tackling Antibiotics Resistance by Bacteriophage Therapy”, Department of Biotechnology, Institution’s Innovation Council & Centre of Excellence in Life Sciences, PSGR Krishnammal College for Women on March 1, 2024.
3. National Conference – “Bioscience in Modern Era (*BioME* ’24)”, organized by Department of Biotechnology, Sri Krishna Arts and Science College, Coimbatore, on January 31, 2024.
4. Two day International seminar on “Emerging Trends and Practices in Environmental Conservation”, organized by Raj Rishi Government Autonomous College, on June 5-6, 2022.
5. Indo-US Symposium on Molecular Virology-2022 (virtual mode), organized by IIT, Mandi, Himachal Pradesh and Ministry of Education, Government of India under the scheme for promotion of Academics and Research Collaboration (SPARC). February 15- 17,2022.
6. Championing your research writing and scholarly communication, Authorcafe in collaboration with the school of Biosciences & Technology, Vellore Institute of Technology (VIT), July 3<sup>rd</sup>, 2020.
7. DBT- Star College Scheme, National Symposium on Mitochondria in Health and Disease, organized by Biochemistry and Biotechnology and Society for Mitochondrial Research and Medicine (SMRM - India), February 21<sup>st</sup>, 2020.UGC sponsored State level Seminar on “Current strategies in forest Resources Management”, Virudhunagar Hindu

Nadar's Senthikumara Nadar College, Virudhunagar Department of Zoology on 16-Feb-18.

8. Two day's 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, Department of Biochemistry, on 5&6-Oct-16.
9. Two day's DBT and ICMR Sponsored National Conference on "Transitional and Translational Scenarios in Biological Sciences (3 I's- *In Vitro* to *In Vivo* to Silico)", Dr. N.G.P. Arts and Science College, Coimbatore, Department of Microbiology In association with IAAM, on 9&10- Sep-16.
10. One day International Symposium on "Public Health Emergency and Disaster Management", Hindustan College of Arts and Science, Coimbatore, PG and Research Department of Biotechnology and Microbiology, Hindustan College of Arts and Science on 3- Nov-15.
11. One day National Conference on "Biodiversity Conservation", Sree Narayana Guru College, Coimbatore, PG and Research Department of Biotechnology on 30 - Sep-15.
12. One day National Conference on "Emerging Education Models for 21st Century Learner (NCEEM-2015)", Dr. N.G.P. Arts and Science College, Coimbatore, Association of Principals of colleges of Bharathiar University and UGC Human Resource Development Centre, Bharathiar University on 1 - Aug15.
13. One day National Symposium on "Recent Innovations in Biosciences", Dr. R.V Arts and Science College, Karamadai, Coimbatore, Department of Biotechnology on 17- Oct-14.
14. One day National Symposium on "Momentous Microbes From Menace to Marvel, PSMM-2014", Dr. N.G.P. Arts and Science College, Coimbatore, Department of Microbiology on 20- Aug-14.
15. 16. One day National conference on "Recent Trends in Medicinal plants and their products" Dr. N.G.P. Arts and Science College, Coimbatore, Department of Biochemistry and Clinical Laboratory Technology on 18- Sep-13.

16. One day National Symposium on “Perception of Microbes in Human and Environment PSPM-2013”, Dr. N.G.P. Arts and Science College, Coimbatore, Department of Microbiology on 22-Aug-13.
17. Two Day’s International Symposium on “Harnessing Microbes for Human Health and Resource Recuperation-ISHM 2012” Dr. N.G.P. Arts and Science College, Coimbatore, Department of Microbiology on 7& 8- Aug-12.
18. One day National conference on “Emerging Trends in Herbal Research and Cancer Therapy” KMCH College of Pharmacy, Coimbatore, on 26- Jun-12.
19. One day DBT Sponsored Popular Lectures on “Current Trends in Biotechnology and Bioinformatics” Nirmala College for Women, Coimbatore, Department of Botany on 2- Mar-12.
20. NAAC Sponsored Two Day’s National conference on “Achieving Academic Excellence through Internal Quality Assurance Cell (IQAC)” Dr. N.G.P. Arts and Science College, Coimbatore on 9&10- Dec-11.
21. Two Day’s National Symposium on “Biopharmaceuticals-Their application in disease Prevention and health Promotion-NSBP 2011”, Dr. N.G.P. Arts and Science College, Coimbatore, Department of Microbiology on 4& 5-Aug-11.
22. IAS (Bangalore), INSA (New Delhi) and NAS (Allahabad) Sponsored Two Day’s Science Academies Lecture workshop on “Prospects and Future challenges in Plant Biotechnology”, Dr. G.R. Damodharan College Science, Coimbatore, organized by Department of Biochemistry on 18& 19- Mar-11.
23. One day National conference on “Issues in Higher Education” Dr.N.G.P. Arts and Science College, Coimbatore, Association of Principals of College (Bharathiar University) and UGC- Academic Staff College (Bharathiar University), on 29- Oct-10.
24. Two Day’s National Symposium on “Communicable Disease and its Control Measure”, Dr. N.G.P. Arts and Science College, Coimbatore, organized by Department of Microbiology on 4& 5-Aug-10.
25. ICMR Sponsored Two Day’s National Science Congress on “Genetics, Diagnosis and Therapy” Dr. N.G.P. Arts and Science College, Coimbatore, organized by Department of Biochemistry and Clinical Laboratory Technology on 20& 21- Aug-09
26. One day International seminar on “Inculcating Innovations”, Dr N.G.P. Arts and Science College, Coimbatore, Department of Biochemistry, on 6- Mar-09.
27. One day seminar on “Bioscience-A Sustainable virtue”, Dr N.G.P. Arts and Science

- College, Coimbatore, Department of Biochemistry, on 24- Feb-09.
28. One day seminar on “Motif ‘08” held at Bharathiar University. Department of Bioinformatics, Bharathiar University, Coimbatore on 24- Sep-08.
  29. One day international seminar on “Inculcating Innovations”, Dr N.G.P. Arts and Science College, Coimbatore, Department of Biochemistry, on 6-Mar-08.
  30. One day seminar on “Motif ‘05” Bharathiar University, Department of Bioinformatics, Bharathiar University, Coimbatore on 6- Oct-05.
  31. State level seminar on “Advanced Molecular Biology” by scientists from Indian Institute of Science (IISC), Bangalore PSG College of Arts and Science, Coimbatore on January 28- 29,2005

### **Participation in Workshop**

1. Two day “CIPAM’S workshop on Intellectual Property Rights (IPR)-2023”, organize by IPR cell and IQAC – RVS College Arts and Science, Sulur, Coimbatore, Supported by Cell for IPR Promotion & Management (CIPAM) and DBT -Star College Scheme, New Delhi on September 4 – 5, 2023.
2. Seven days UGC Stride Sponsored online training programme on “Environmental Sustainability and Research Ethics”, organized by Department of Food Science and Nutrition, School of Home Science on February 3 – 11, 2021.
3. E-Workshop on Bioinformatics, DTU-Sponsored, organized by Department of Biotechnology, Delhi Technological University, December 14<sup>th</sup> to 18<sup>th</sup>, 2020.
4. Hands on Training in Animal Tissue culture techniques, organized under DBT- Star college scheme, Department of Biotechnology, Dr. N.G.P. Arts and Science College, March 3<sup>rd</sup>, 2019.
5. Science Academies Lecture Workshop on Recent Advances in Biochemistry, Organized by Department of Biochemistry, Dr. N.G.P. Arts and Science College, August 10<sup>th</sup> and 11<sup>th</sup>, 2018.

6. SPSS, Centre for Research and Development, Dr. N.G.P. Arts and Science College, 13-Mar -10.
7. Motivation, Counseling and Commitment In Teaching Profession, KMCR &E Trust, Dr. N.G.P College Of Education, Coimbatore, 10- Jun-06.
8. Generation & Purification of Polyclonal and Monoclonal Antibodies for the Diagnosis of Infectious Diseases, Department of Microbiology, PSG College of Arts and Science, Coimbatore, 3and 4- Oct-05.
9. Generation and Validation of Multiple-choice Questions for Online Testing, PSG College of Arts and Science, Coimbatore, 17 and 19- Feb-05.
10. RAPD analysis, Biohelix- Bangalore, Department of Microbiology and Biotechnology, PSG College of Arts and Science, Coimbatore, 16 and 17-Feb-05.
11. Molecular and Immunotechniques, Medox Biotech-Chennai, Department of Microbiology and Biotechnology, PSG College of Arts and Science, Coimbatore, 20 and 21- Jan-05.

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

1. International Short term training programme -2 on “Contrivance of Sustainable Development Goals (SDGs) for Environmental Conservation”, organized by Raj Rishi Government Autonomous College, from April 20-26, 2022.
2. International Short term training programme -2 on “Impact and Panacea of Environmental Pollution: The Past, Present and Future”, organized by Raj Rishi Government Autonomous College, from April 20-26, 2022.
3. Environmental Sustainability and Research Ethics, Sponsored by UGC stride, organized by Avinashilingam Institute for Home Science and Higher Education for Women, Coimbatore, February 3<sup>rd</sup> to 11<sup>th</sup>, 2021.
4. Intellectual Property (IT) campaign – A multidisciplinary Event, organized by Department of Biotechnology, RVS College of Arts and Science, Coimbatore, under DBT- Star College Scheme, December 11<sup>th</sup> to 14<sup>th</sup>, 2020.
5. Science Academy’s Summer Research Fellow 2019, Indian Institute of Technology, Mandi, Himachal Pradesh, 24- Apr-19 to 18 – Jun - 19.
6. Introductory Training programme on Mushroom Cultivation, Agricultural College and Research Institute, Coimbatore, 12- Sep-15.

## Participation in Faculty Development Programme

1. Participated in Seven Days FDP on Emerging Technologies in Bioprospecting for Health and Environment: Opportunities and Challenges. Department of Biotechnology, Microbiology, Biochemistry and Nutrition and Dietetics, Vivekananda Arts and Science College for Women's, Sankarigiri, February 21<sup>st</sup> to 27<sup>th</sup> 2025.
2. Participated in Live webinar on "Nurturing Future Biotech Industry Professionals" organized by Division of Biotechnology, Karunya Institute of Technology and Sciences, Coimbatore from 3rd to 8th June, 2024.
3. Participated in "NEP Orientation and Sensitization Programme -02" organized by Inter university Centre for Teacher Education, BHU, Varanasi (Online) 22nd to 31st July, 2024.
4. Dr. A.P.J. Abdul Kalam Technical University, Lucknow Sponsored Five- day FDP on "Entrepreneurship Incubation and Innovation", Organized by Department of Biotechnology, Bansal Institute of Engineering and Technology, Lucknow from 5th August to 10th August 2024.
5. Four Week International Faculty Development Programme Online on "Microbiology Laboratory Techniques (Phase I)", Organized by Department of Microbiology, Sacred Heart College, Tirupattur and association with Microbiologists Society, Nepal and Laboratory of Chemical, Biological Analysis and Western Rio Janeiro State University, and Rio Janeiro State, Brazil, from September 23 to October 03, 2023. (Online)
6. Drug Engineering through Bioprospecting, (Online) AICTE Training and Learning (ATAL) Academy association with Department of Biotechnology, Dr. N.G. P. Arts and Science College, July 12 -16,2021.
7. Bio-Innovation Patenting and Entrepreneurship Opportunities in Biotechnology for Sustainable Environment (Online), organized by Department of Biotechnology, The Oxford College of Engineering, March 29<sup>th</sup> and 30<sup>th</sup>, March 2021.
8. Quality Initiatives in Higher Education, organized by Dr. N.G.P. Arts and Science College, Sri Ramakrishna College of Arts and Science, Coimbatore, Gobi Arts and Science College, Gobichettipalayam and Vellalar College for Women, Erode, from April 13, to 20, 2020.
9. Four Week International Faculty Development Online Certificate Course on "Medical Bacteriology (Phase II)", Organized by Department of Microbiology, Sacred Heart College, Tirupattur and association with Microbiologists Society, India and Laboratory of



Chemical and Biological Analysis and Western Rio Janeiro State University, Brazil, from July 13 to August 13, 2020.

10. Introduction to Research (Online), NPTEL – AICTE, August 2019 to October 2019.
11. Entrepreneurship and IP strategy (Online), NPTEL – AICTE, September 2020 to November 2020.
12. NAAC Revised Accreditation Frame work and OBE Assessment Methodology, Dr. N.G.P. Arts and Science College, Coimbatore, May 27<sup>th</sup> to June 2<sup>nd</sup>, 2019.
13. Quality Measures in Higher Education, Dr. N.G.P. Arts and Science College, Coimbatore, 3 and 9- Dec-18.

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

- **Workshop**

1. Animal Cell Culture Technique, under the DBT STAR College scheme, 30-03-2019.
2. Operations and Applications of UV-Visible Spectrophotometer, DBT STAR College scheme, 21-Feb-19.
3. Protein & Nucleic Acid Quantification with Nanophotometer, DBT STAR College scheme, 19-Feb-19.
4. PCR and Nanophotometer, DBT STAR College Scheme, 13-Feb-19.
5. Microtome, DBT STAR College scheme, 07-Feb-19.
6. Nanophotometric Techniques, DBT STAR College Scheme, 10-Jan-19.
7. Inspire Internship Science camp, Dr. N.G.P. Arts and Science College 26 to 30-Dec-16.
8. Downstream processing and its applications, Department of Biotechnology, Dr. N.G.P. Arts and Science College and Centre for Bioscience and Nanoscience Research (CBNR), 15 and 16- Feb-13.
9. Bioinformatics Tools, Molecular Modeling and Docking Software, Sai's Bioscience and Research Institute and Department of Biotechnology, Dr. N.G.P. Arts and Science College, Coimbatore, 27to 29- Dec-10.
10. Molecular Immunotechniques, Department of Biotechnology, Dr. N.G.P. Arts and Science College, 19 and 20- Jul-06.

- **Conferences**

1. National Conference on Interdisciplinary Approaches on Dynamics of Bioscience Research (IADBR-2023) on March 28,2023.
2. National Symposium on Graduate Research (NSGR-2020) on February 21-22,2020
3. Futuristic approaches in Transformation of Bioscience Research – FATBR-2020,6and 7- Mar-20.
4. Recent Trends in Bioprospecting and Its Challenges,16-Oct-19.
5. Workshop on Tools for Biologists in Bioinformatics on July 8,2019\*.
6. Workshop on UV visible Spectrophotometer on July 5,2019\*.
7. Hands on training on Quantification of DNA from Herbal Leaves and Animal Tissues using Nanophotometer on July 1,2019\*.
8. Biodiversity and its Prospecting, 28- Feb-19.
9. Data Analytics and its application in Biotechnology, 14and 15-Feb-19.
10. Hands on training on Intricacies in Plant Tissue Culture, on June 28,2019\*.
11. Bioprospecting-Indian Perspectives Challenges & Opportunities, Dr. N.G.P. Arts and Science College, 28- Dec-17.
12. Genomics and Proteomics in Bioprospecting- Role in Healthcare Development, Dr. N.G.P. Arts and Science College, 21-Dec-16.
13. Bioprospecting- Initiatives and Challenges, Dr. N.G.P. Arts and Science College, Coimbatore, 28 and 29- Dec-15.
14. Biotechnology – Present and Future for sustainable Healthcare Development, Dr. N.G.P Arts and Science College, 29 and 30- Dec-14.
15. Dr. Nalla G Palaniswami Endowment Seminar on “Innovations in Biotechnology, 28-Feb-14.
16. Bioentrepreneur Meet, Opportunities and Challenges in Bioentrepreneurship, 24- Sep-14.
17. Biotechnology- Present and Future, Dr. N.G.P. Arts and Science College, Coimbatore, Department of Biotechnology, 26 and 27-Sep-13.
18. Perspective of Biotechnology for Healthcare Development, (Funded by DRDO), Dr. N.G.P. Arts and Science College, Coimbatore, Department of Biotechnology,29 and 30- Dec-11.

19. Recent Trends in Biotechnology, (Funded by DRDO), Dr. N.G.P. Arts and Science College, Department of Biotechnology, 30-Sep- 10 and 1- Oct-10.
20. Advanced Trends in Biotechnology, (Funded by DRDO and ICMR), Dr. N.G.P. Arts and Science College, Department of Biotechnology, 18 and 19- Dec-09.
21. Advanced Trends in Biotechnology, Dr. N.G.P. Arts and Science College, Department of Biotechnology on 19 and 20- Dec-08.
22. Advanced Trends in Biotechnology, Dr. N.G.P. Arts and Science College, Department of Biotechnology, 2 and 3- Feb-07.

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

- Session Chair in National Seminar on Navigating the Future: Ageing and Social Security in the 21<sup>st</sup> Century (Vision Viksit Bharat’'), Department of Hospital Administration, Dr. N.G.P. Arts and Science College, Coimbatore, on January 30,2025.
- Session Chair in evaluating Oral Presentation in XVI Louis Pasteur National Symposium, on Alternative Medicine for combating Infections diseases (AMCID-2025), Department of Microbiology, Dr. N.G.P. Arts and Science College, Coimbatore, February 27<sup>th</sup> and 28<sup>th</sup>, 2025.
- Session Chair in evaluating Oral Presentation in XVI Louis Pasteur National Seminar, on Novel Diagnostic and Drug Development Strategies for Infectious Diseases (NDID -2024), Department of Microbiology, Dr. N.G.P. Arts and Science College, Coimbatore, 22<sup>nd</sup> and 23<sup>th</sup> February 2024.
- Chair Person, DST-SERB Sponsored, National Seminar on Computing Platforms for Biological Big Data Analytics (NSCB-2K20), Department of Microbiology, February 5<sup>th</sup> and 6<sup>th</sup>, 2020.
- Chair person, International Conference on Prospects of Nutraceuticals and Natural Medicine, February 2th, 2019.
- Invited Speaker, Animal Tissue Culture, Association Guest lecture, Dr. R.V. Arts and Science College, Coimbatore on 13– Jul-18.
- Chair person, National Seminar on Recent Innovations in Biosciences – NSRIB’19, 18–Sep -19.

#### **Member in BoS**

- Member in UG and PG Biotechnology, PSG Krishnammal College for Women’s, Coimbatore from 2024.

- Member in UG and PG Biotechnology, Sri Ramakrishna College of Arts and Science, Coimbatore from 2024.
- Member in UG Biotechnology, Periyar University Affiliate colleges, Salem, since 2020 onwards.
- Member in UG Biotechnology, Bharathiar University, Coimbatore, Period, since 2013.

- Member in Ph. D Biotechnology, Bharathiar University, Coimbatore, since Jan 2019.
- Member in UG Biotechnology, Kongunadu College of Arts and Science, Coimbatore, since 2019 – 2022.

#### NCBI Sequence Submission

Marine Actinomycetes nucleic acid sequence has been posted in the International nucleic acid data base GENE BANK.

1. Accession Number PP658137 <https://www.ncbi.nlm.nih.gov/nuccore/PP658137>  
Kathiravan, M.N., Kalimuthu, K., Chidambararajan, P., and Thilagavathi, K., *Bacillus cereus* strain DrMNK041 16S ribosomal RNA gene, partial sequence.
2. Accession Number PP658136 <https://www.ncbi.nlm.nih.gov/nuccore/PP658136>  
Kathiravan, M.N., Kalimuthu, K., Chidambararajan, P., and Thilagavathi, K., *Pseudomonas nitroreducens* strain DrMNK036 16S ribosomal RNA gene, partial sequence.
3. Accession Number PP658135 <https://www.ncbi.nlm.nih.gov/nuccore/PP658135>  
Kathiravan, M.N., Kalimuthu, K., Chidambararajan, P., and Thilagavathi, K., *Priestia megaterium* strain DrMNK029 16S ribosomal RNA gene, partial sequence.
4. Accession Number PP658134 <https://www.ncbi.nlm.nih.gov/nuccore/PP658134>  
Kathiravan, M.N., Kalimuthu, K., Chidambararajan, P., and Thilagavathi, K., *Burkholderia sp.* strain DrMNK022 16S ribosomal RNA gene, partial sequence.
5. Accession Number PP658133 <https://www.ncbi.nlm.nih.gov/nuccore/PP658133>  
Kathiravan, M.N., Kalimuthu, K., Chidambararajan, P., and Thilagavathi, K., *Serratia marcescens* strain DrMNK015 16S ribosomal RNA gene, partial sequence.
6. Accession Number ON137232 <https://www.ncbi.nlm.nih.gov/nuccore/ON137232>  
Kathiravan, M.N., Chidambararajan, P., Thilagavathi, K., Abinaya, R., Barathwaj, D. and Anirudh, C.S. *Bacillus cereus* strain DrNGPASC-BT008 16S ribosomal RNA gene, partial sequence.
7. Accession Number ON130974 <https://www.ncbi.nlm.nih.gov/nuccore/ON130974>  
Kathiravan, M.N., Chidambararajan, P., Thilagavathi, K., Abivarshini, B., Arthi, R. and Akileshwaran, K. *Pseudomonas aeruginosa* strain DrNGPASC-BT010 16S ribosomal RNA gene, partial sequence.

8. Accession Number ON077507

<https://www.ncbi.nlm.nih.gov/nuccore/ON077507>

Kathiravan, M.N., Chidambararajan, P., Thilagavathi,K., Abinaya,R., Abishek,T. and Anirudh, C.S. *Pantoea* sp. strain DrNGPASC-BT003 16S ribosomal RNA gene, partial sequence.

9. Accession Number ON077357

<https://www.ncbi.nlm.nih.gov/nuccore/ON077357>

Kathiravan, M.N., Chidambararajan, P., Thilagavathi,K., Abivarshini,B., Akileshwaran,K. and Barathwaj,D. *Acetobacter orleanensis* strain DrNGPASC-BT001 16S ribosomal RNA gene, partial sequence.

10. Accession Number KF031149.1

<https://www.ncbi.nlm.nih.gov/nuccore/KF0311493>.

Chidambara Rajan, P., Mahalakshmi Priya, A. and Jayapradha, D. *Streptomyces griseoflavus* strain PCRNGP01 16S ribosomal RNA gene, partial sequence.

11. Accession Number JN675471.1

<https://www.ncbi.nlm.nih.gov/nuccore/JN675471.1>

Chidambara Rajan, P., Jayapradha, D. and Mahalakshmi Priya, A. *Streptomyces* sp. chida1 16S ribosomal RNA gene, partial sequence.

#### Others

- Examiner and question paper setter in G.R.D College of Science, (Autonomous), Coimbatore. Period: 2008 – Till date.
- Examiner in R.V.S College of Arts and Science (Autonomous), Coimbatore. Period:2008- Till date.
- Examiner and question paper setter in Kongunadu College of Arts and Science College of Science, (Autonomous), Coimbatore. Period: 2008 – Till date
- Question Paper Setter for Biochemistry and Biotechnology in Vivekananda college of Arts and Science, Thiruchengode, Namakkal 2012- till date
- University Representative: For the conducting of university examinations in various colleges affiliated to Bharathiar University. Period: 2013, 2014 and 2016.
- Doctoral Committee Member in Periyar University Salem, Vivekananda college of Arts and Science, Thiruchengode, Namakkal.
- Life time member in Academic Research Conclave (ARC).