

Name :Dr. RadhaPalaniswamy
Designation :Associate Professor
Department :Biotechnology
Qualification :M.Sc., PGDND, Ph.D (NET)
Experience :Teaching: 10 Years
Industry: 6 Years
Research: 3 Years



Area of Specialization(s) : Cancer biology
Email (Official ID) : radhapalaniswamy@drngpasc.ac.in

Academic Qualifications

Degree	Branch	Institution / University Name	Year of Graduation
Ph.D.	Biotechnology	Avinashilingam University for Women, Coimbatore	2012
PG Diploma	Nutrition and Dietetics	Institute for Health Care Sciences, Chennai	2006
PG	Biotechnology	Avinashilingam University for Women, Coimbatore	2005
UG	Biochemistry with Nutrition	Avinashilingam University for Women, Coimbatore	1999

Additional Qualifications

Diploma / Vocational / Certification	Area of Specialization	Institution / University / Agency Name	Year
Online Certificate	Basics of Palliative Care -2	NPTEL	2025
Online Certificate	Psychology, stress and Healthcare	NPTEL	2024
Online Certificate	Building Creative confidence	Infosys Springboard	2023
Online Certificate	e-mail Etiquettes	Infosys Springboard	2023
Online Certificate	Active Listening Skills for Students	Infosys Springboard	2023
Online Certificate	Work life Balance	Infosys Springboard	2023
Online Certificate	Soft Skill Development	NPTEL	2021

NET	Environmental Science	UGC	2019
Online Certificate	Introduction to Research	NPTEL	2019
Online Certificate	Stress Management	NPTEL	2018
Online Certificate	Introduction to Professional Scientific Communication	NPTEL	2018
Online Certificate	Introduction to Scientific writing	NPTEL	2017

Grants Received

Event Title	Agency	Amount	Date
National Workshop on Data Analytics and its Applications in Biotechnology	DBT – CTEP, New Delhi	Rs. 75,000	31-Oct-18
Seed Money for Lab On Project entitled – Natural dye extraction and its utilization on different fibres	Dr. NGP Arts and Science College, Coimbatore	Rs. 5,000	25-10-21
Seed money Grant “ Partial Replacement of OPC Using Ash of Agricultural Wastes – Eco Friendly Approach”	Dr. NGP Arts and Science College, Coimbatore	Rs. 27,000	30-03-23

Projects

Completed

Project Title	Agency	Amount	Duration
"A study on the responses of MajoranaHortensis leaves evoked due to Hydrogen peroxide induced cell death in Hep2 cancer cells.”	DSTWoS-A	16,00,000	2009-2012

Research Guidance

Programme	No. of Scholars	
	Completed	Pursuing
Ph. D.	1	3

Publications: International / National Journals

1. Palaniswamy, R. and Padma, P.R., **Antioxidant effect of Majorana hortensis leaves**, International Journal of Research in Ayurveda and Pharmacy, Vol. 2, Issue 4, pp. 1365-1367, August 2011 . ISSN: 2229-3566 (Indexed in UGC).
2. Palaniswamy, R. and Padma, P.R., **Effect of Majorana hortensis leaves against lipid peroxidation**, Asian Journal of Bioscience, Vol. 6, Issue. 1, pp. 87-89, April 2011. ISSN: 0973-4899 (Indexed in UGC).
3. Palaniswamy, R. and Padma, P.R., **Antioxidant activity of Majorana hortensis leaves subjected to oxidative stress in an in vitro system**, International Research Journal of Pharmacy, Vol. 2, Issue. 6, pp. 153-157, June 2011. ISSN:2230-8407.
4. Palaniswamy, R. and Padma, P.R., **Effect of Majorana hortensis leaf extracts on the apoptotic events in Saccharomyces cerevisiae cells subjected to oxidative stress**, Biotechnology, Bioinformatics & Bioengineering, Vol. 1, Issue. 1, pp. 119- 124, November 2011. ISSN:0006-3592.
5. Palaniswamy, R. and Padma, P.R., **Free Radical Scavenging Activity of Majorana hortensis leaves**, Ancient Science of Life, Vol. 30, Issue. 4, pp. 96-99, April – June 2011. ISSN:0257-7941. (PubMed indexed).
6. Palaniswamy, R. and Padma, P.R., **Comparison of Three Herbal Plants for Best Free Radical Scavenging Activity**, International Journal of Current Pharmaceutical Research, Vol. 9, Issue. 3, pp. 62-64, March 2017, ISSN: 0975-7066.
7. Palaniswamy, R. and Veluchamy, C., **Removal of Chromium from effluent by biosorption using Spirulina platensis**, International Journal of Recent Advances in Multidisciplinary Research, Vol. 4, Issue. 8, pp. 2712-2714, August 2017, ISSN: 2350-0743.
8. Palaniswamy, R. and Veluchamy, C., **Bioabsorption of heavy metal by spirulina platensis from electroplating industrial effluent**, Environmental Science Indian Journal, Vol. 13, Issue. 4, pp. 1-3, July 2017, ISSN: 0974-7451. (UGC Indexed).
9. Palaniswamy, R. and Veluchamy, C., **Bioabsorption of copper by Spirulina platensis from industrial effluent**, European Journal of Biomedical and Pharmaceutical Science, Vol. 4, Issue. 7, pp. 806-806, July 2017, ISSN:2349-8870(UGC indexed).
10. Palaniswamy, R. and Veluchamy, C., **Spirulina – A Review on Nutritional Perspective**, International Journal of Recent Scientific Research, Vol. 8, Issue. 9, pp. 19825-19827, September 2017, ISSN: 0976-3031.

11. Palaniswamy, R. and Veluchamy, C., **Therapeutic Uses of Spirulina: A Review**, International Journal of Current Innovations and Research, Vol. 4, Issue. 1, pp. 975-979, January 2018, ISSN:2395-5775. (UGC Indexed).
12. Palaniswamy, R. and Padma, P.R. **Histopathology Study to Prove the Protective Effect of Majoranahortensis against oxidative stress**, World Journal of Pharmaceutical and Medical Research, Vol. 4, Issue. 4, pp. 151-153, March 2018, ISSN No. 2455-3301. (UGC indexed).
13. Palaniswamy, R. and Padma, P.R. ,**Phytochemical Analysis of Majoranahortensis leaves**, Journal of Pharma Research, Vol. 7, Issue. 5, pp. 70-72, May 2018, ISSN No: 2319-5622(UGC indexed).
14. PalaniswamyRadha, **Time Dependent Effect of Bioadsorption of Dyes by fruit and vegetable peel**, International Journal of Recent Engineering Research and Development, Vol. 03, Issue.05, pp. 106-108. May 2018, ISSN No: 2455-8761.
15. PalaniswamyRadha, **Bioadsorption of dyes using vegetable and fruit peels**, Research Journal of Chemical and Environmental Sciences, Vol. 6, Issue. 3, pp. 17-19, July 2018, ISSN No. 2321-1040
16. Murugesan, T and PalaniswamyRadha, **Isolation and screening of protease producing bacteria from different market soils**, International Journal of Research in Bioscience, Vol. 7, Issue. 3, pp. 35-40, July 2018, ISSN No. 2319-2844.
17. Murugesan, T and PalaniswamyRadha, **Isolation and screening of amylase producing bacteria from different market soils**, Biotechnology International, Vol. 11, Issue. 1, pp. 21-27, July 2018, ISSN No. 0974-1453.
18. Palaniswamy, Radha, **Understanding the basics of Ayurveda: A Review**, International Journal of Research and Ayurveda Pharmacy, Vol. 9, Issue. 4, September 2018, ISSN No. 2229-3566.
19. Palaniswamy, R., Selvaraj, D and Renganathan, S, **Comparison of 8 different Boiled tropical fruits**, Internal Journal of Current Pharmaceutical Research, Vol. 11, Issue. 1, pp. 21-23, 2019, ISSN No. 0975-7066.
20. Palaniswamy, R. and Padma P.R., **Molecular Docking studies of Derivatives of Majoranahortensis leaves against anti apoptotic targets**, International Journal of ChemTech Research, Vol. 12, Issue. 1, pp. 302-306, 2019, ISSN No. 0974-4290.
21. Palaniswamy, R., Sandhiya R and Dhanyasri N, **New Generation of Nanoparticles: A Review**, International Journal of ChemTech Review, Vol. 12, Issue. 2, pp. 292-398. 2019. ISSN: 2455-9555.
22. Palaniswamy, R. **Endophytes: A Review**, European Journal of Bioscience and Pharmaceutical Sciences, Vol. 6, Issue. 3, pp. 152-159. 2019. ISSN No: 2349-2370.

23. Palaniswamy, R. and Sandhiya, R. **Green synthesis of silver nanoparticles from *Origanum Majoram* leaf extract**, Journal of Emerging Technologies and Innovative Research, Vol. 6, Issue. 4, pp. 220-229. 2019. ISSN No. 2349-2362.
24. Palaniswamy R. and Padma, P.R. **Spectral Analysis of *Majoranahortensis* leaves**, Recent Trends in Pharmaceutical Science, Vol. 1, Issue. 2, pp. 11-16. 2019.
25. Uma Bharathi, K., Vignesh, V.N. and Radha Palaniswamy, **A Review on Titanium Dioxide Nanoparticles in Food Packaging**, International Journal of Research and Analytical Review. Vol 6, Issue. 2, pp. 785-796. 2019. E-ISSN: 2348-1269.
26. Swathisri. S., Naganandhini, K. and Radha Palaniswamy, **Review on Nano based herbal face wash power**, International Journal of Green and Herbal Chemistry. Vol. 9, Issue.1, pp.1-15. 2019. E-ISSN: 2278-3229.
27. Palaniswamy, R and Dhanyasri, **Application of Endophytic bacteria in Plant Growth Enhancement**, Journal of Pharmacy and Biological Sciences, Vol. 9, Issue 3, pp. 457-461. ISSN: 2321-3272.
28. Mohammed Suhaib, M and Palaniswamy, R, **Antibacterial Activity of Zinc Oxide nanoparticles produced from *Kappaphycus alvarezii***, JETIR, Vol. 6, Issue 6, pp. 247-252. ISSN: 2349-5162.
29. Palaniswamy, R and Dhanyasri, S., **Enzyme Production from Endophytic Bacteria Isolated from Medicinal Plants**, International Journal of Pharmacy and Technology, Vol 11, Issue 1, pp. 31672-31682. ISSN: 0975-766X.
30. Sandhiya, R and Palaniswamy, Radha. **Antibacterial Effect of Silver Nanoparticles from *Origanum majorana* Leaf Extract in First-Aid Bandage**, International Journal of Pharmacy and Biological Sciences. Vol. 9, Issue.4, pp. 115-121. Dec 2019. ISSN: 2321-3272.
31. Harshini, V. and Palaniswamy, R **Hazards of Plastic: A Review**, Scrutiny International Research Journal of Biological and Environmental Science. Vol.6. Issue: 12. Pp. 1-8. 2019. ISSN: 2348-5787 (UGC Indexed).
32. Vignesh, V.N. and Palaniswamy, R. **Synthesis of Oil Based Cost Effective Herbal Soap**, International Journal of Research and Analytical Reviews, Vol 7, Issue 2. Pp. 389-397. May 2020. ISSN: 2349-5138 (UGC Indexed).
33. Veluchamy, C and Palaniswamy, R. **A Review on Marine Algae and its Applications**, Asian Journal of Pharmaceutical and Clinical Research, Vol 13, Issue 3, pp. 21-27. Jan 2020. ISSN: 2455-3891.
34. Uma Bharathi, K. and Palaniswamy, R. **Prevention of Microbial Infection in Broiler Chicken using Green Synthesis of Titanium dioxide nanoparticles**, Journal of Emerging Technologies in Innovative Research, Vol 7, Issue 5, pp 70-79. May 2020. ISSN: 23495162 (UGC Indexed).

35. Uma Bharathi,K. and Palaniswamy, R. **Titanium Dioxide Nanoparticles and their Characteristics: A Review**, Vol 2, Issue 1, pp. 48-54, Feb 2020. ISSN:282-4457.
36. Swathisri and RadhaPalaniswamy, **Synthesis of Nano-based herbal face pack**, International Journal of All Research Education and Scientific Methods, Vol 8, Issue 7, pp. 27-37. July 2020. ISSN:2455-6211.
37. RenugadeviS. and RadhaPalaniswamy, **Microflora in Leguminous plants**, IJRAJR, Vol. 7, Issue 3, pp. 83-93. July 2020. ISSN:2340-5138.
38. Vignesh, V.N., Umabharathi, K. and Palaniswamy, R. **A Review on Herbal Soap**, International Journal of Research and Analytical Reviews, Vol. 7, Issue 3, pp. 480-486. July 2020. ISSN: 2349-5138.
39. Harsini V. and RadhaPalaniswamy, **Bioplastic World: A review**, Journal of Advanced Scientific Research, Vol 11, Issue 3, pp. 43-53. Aug 2020. ISSN: 0976-9595.
40. Naganandhini K and RadhaPalaniswamy, **Synthesis of Natural Food Colors from Carotenoids Using Flower Petals**, International Journal for Modern Trends in Science and Technology, Vol 6, Issue 6, pp. June 2020. pp 151-160. ISSN: 2455-3778.
41. Naganandhini K, Swathisri S and RadhaPalaniswamy, **Carotenoids: Source of Food Color and its Benefits**, International Journal for Modern Trends in Science and Technology, Vol 6, Issue 7, pp 42-51. ISSN: 2455-3778.
42. RadhaPalaniswamy, **Comparison of Carbohydrate, Protein and Vitamin C from raw and boiled vegetable samples**, Journal of Pharmaceutical Quality Assurance and Quality Control, Vol. 3, Issue 1, pp. 9 -15. Jan 2021.
43. Harsini Venkatachalam and RadhaPalaniswamy, **Synthesis of Bioplastic from *Tridaxprocumbens***, International Journal of Creative Research Thoughts, Vol 9, Issue 3, pp. 4173-79, Mar 2021. ISSN: 2320-2882.
44. GowriSivasamy, DhanyaaSenthil, Gopinath Ramachandran and RadhaPalaniswamy, **Review on Characteristics of *JusticiaTranquebariensis***, International Journal of Creative Research Thoughts Vol. 9, Issue 3, pp. 339-344, Mar 2021. ISSN:2320-2882.
45. Gopinath Ramachandran, GowriSivasamy, DhanyaaSenthil and RadhaPalaniswamy, **AReview on Production of Biofuel Using Browning Oil**, International Journal of Environmental and Ecology Research, Vol. 3, Issue: 1, pp. 28-33. Mar 2021. ISSN: 2664-7109.
46. DhanyaaSenthil and RadhaPalaniswamy, **Determination of Antioxidant, Antibacterial and Anticoagulant Activity of *Artemesianilagirica* Root and Stem**, International Journal of Creative Research Thoughts, Vol 9, Issue 4, pp 1157-1168. Apr 2021. ISSN: 2320-2882.
47. GowriSivasamy, DhanyaaSenthil, Gopinath Ramachandran and RadhaPalaniswamy, **Evaluation of *in vitro* Antioxidant, Antibacterial and Anticoagulant Activity of**

Justicatranguetariensis, International Journal of All Research Education and Scientific Methods, Vol 9, Issue 4, pp 1238-1249. Apr 2021. ISSN:2455-6211.

48. Gopinath Ramachandran, GowriSivasamy,DhanyaaSenthiland RadhaPalaniswamy, **Production of Biodiesel from Browning Oil Coupled with an Emulsification Technique Using Milk whey**, International Journal of Research and Analytical Reviews, Vol 8, Issue 2, pp. 892-903.Apr 2021. ISSN: 2349-5138.

49. DhanyaaSenthil, Gowri Shiva, Gopinath Ramachandran and RadhaPalaniswamy, **A Review on *Artemisia nilagirica***, International Journal of All Research and Education and Scientific Methods, Vol 9, Issue 6, pp. 1528-1534. June 2021. ISSN: 2455-6211

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51. Gokulprasath M, Lavanya Kannan, RagulGurusamy, RanjithkumarSelvam and RadhaPalaniswamy.**Characteristics of *Euphorbia hirta*: A Review**. Journal of Emerging Trends and Innovative Research, Vol 8,Issue12. pp a664-a673. Dec 2021. ISSN: 2349-5162.

52. Selvakumar, S., Dhanapal AR., Palaniswamy, R et al. **Biodegradation of Endosulfan – a chlorinated cyclodiene pesticide by indigenous *Pseudomonas* sp. MSCSA BT01**, Applied Biochemistry and Biotechnology, March 2022. Vol 174, Issue 6, doi.org/10.1007/s12010-022-03869-w

53. RagulGurusamy, RanjithSelvam, Golulprasath M, Lavanya Kannan and RadhaPalaniswamy. **Review on Green Synthesis of Silver Nanoparticles**. Journal of Emerging Technologies and Innovative Research, Vol 9, Issue 3. pp d106 - d120. Mar 2022. ISSN: 2349-5162.

54. RanjithSelvam, Gokulprasath M., Lavanya Kannan, RagulGurusamy and RadhaPalaniswamy, **Probiotics in Fruit Juices: A Review**.International Journal of Research and Analytical Review, Vol 9, Issue 1, pp 977-988. Mar 2022, E-ISSN:2348-1269.

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57. Deepak VMM and Palaniswamy, R, **Methods of Treatment for Acute Lymphoblastic Leukemia**, International Journal of Biology, Pharmacy and Allied Sciences, Vol 11, issue 8, 3777-3790. Aug 2022. ISSN- 2277-4998. (UGC CARE)

58. Janani, N., Kalaivani, K., Kaveya Dharsheni, S., Kowsalya P and Palaniswamy, R. **Natural Dye Extraction from Combination of *Camellia sinensis*, *Portulaca grandiflorum*, *Macrotyloma uniflorum*, *Vigna radiata*, *Punica granatum* & *Mentha piperita***, Journal of University of Shanghai for Science & Technology, Vol. 24, Issue 10, pp 84-92, Oct 2022. ISSN 1007-6735 (UGC CARE).
59. Harini, T., Hasan Sharukh, Kala Nandhini, S., Lavanya, R. & Palaniswamy, R. **Estimation of Nutrient Content in Different Forms of *Ananas comosus***, GIS Science Journal, Vol. 9, Issue 7, pp.20024-2011. July 2022. ISSN: 1869-9391.
60. Sakthivel, S. Dhanapl, AR, Palaniswamy, R, Dhandapani, S and Kathiravan, MN, **Biodegradation of Endosulfan – a chlorinated cyclodiene pesticide by Indegenous *Pseudomona* sp. MSCAS BT01**, Applied Biochemistry and Biotechnology, Vol. 194, Issue 6, pp. 2747-2761. Oct 2022.
61. Harshni, V.P., Jeevanandham, S, Aksaran, N, Muthupriya, P. and Palaniswamy R. **Partial Replacement of OPC by the Ash of Agricultural Wastes**, Int. J. Res. Edu. Sci Method (IJRESM), Vol.10, Issue 12, pp. 242-247, Dec 2022. ISSN:2455-6211.
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63. Gowtham, G and Palaniswamy, R, **Effects of *Zanthoxylum* Plants against the bacteria causing dental carries – review**, Int.J. Res. Analyt.Reviews, Jan 2023. EISSN: 2348-1269 Vol.10, Issue: 1, pp. 480-487.
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67. Navaneetha B., Harishini VP, Palaniswamy, R. 2023, **Evaluation of White Molly (*Poecilia sphenops*) Fed with *Azolla* enriched *Daphnia magna***, Journal of Xidian University, Vol 17, Issue 4: pp. 193-99. Mar 2023. ISSN:1001-2400.
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69. Sneha S, Nanditha K, Anusha A, Gowtham G, Meena V, Palaniswamy, R. **Formulation of Bioinsecticide using *Pseudomonas fluorescens* to study the mortality rate against *Aedes Aegypti***.

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78. Saranya, R and Palaniswamy, R. **Sustainable Bioplastic Production: A comprehensive review of PHB synthesis from sugarcane bagasse utilizing *Bacillus cereus*.** International Journal of Research and Analytical Reviews. Vol 11, Issue:1, pp 208-217. January 2024. ISSN: 2349-5138.

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10. Kumar N and Palaniswamy, R. **AI for Beginners**, Lambert Academic Publishers. April 2024. ISBN: 9786207486113.
11. Jeevanandham, S., Yogapriya.S, Palaniswamy, R. **A Glimpse on Ozone Depletion**. Advances in Multidisciplinary Research and Development. Vol: 1. Scipown Publications, New Delhi. 06-18. May 2024. ISBN: 978-93-94375-80-2.
12. Editor: Prof. N Kumar and Radha Palaniswamy, **National Seminar on Integration of Traditional Indian Knowledge System into Modern Higher Education: NEP Perspective**. July 2024. Vol I, II, III, IV. Dr. NGP Arts and Science College, Coimbatore. ISBN: 9788197100055.

13. Atheesh, S.B., Megavashini, S., Pavithra J and Palaniswamy, R. **Phytoremediation of Textile dye effluent using *Ceratophyllum demersum***. Research Trends in Multidisciplinary Research., Akinik Publications. 2024. vol 52. ISBN: 978-93-6135-367-3. Pp 67-84.
14. Palaniswamy, T.R. and Palaniswamy R, **Learning Foreign Languages**. Lambert Publications. 2024. ISBN: 978-620-8-06416-7.
15. Keerthana S and Palaniswamy, R, **Review on Isolation of Fluoride from *Camellia Sinensis* Leaf for Formulation of Toothpaste**, Science and Technology for Sustainable Future, 2025. Vol 1, pp 120-130. ISBN978-48620-019.

Patents Published

For the work entitled “**A Process for the Preparation of Natural Dyes from *Musa acuminata***” patent was published under application number 202241051788 during September 2022 under the field of invention as Textiles.

For the work entitled “**Synthesis of Emulgel from *Euphoria hirta* and *Coccinia grandis* leaves**” patent was published under application number 202341003608 during January 18, 2023 under the field of invention in life science.

For the work entitled “**Bioplastic synthesis from *Tridax procumbens* leave extract**” patent was published under application number 202341010286 during February 16, 2023 under the field of invention in biological science.

Consultancy

Nature of Consultancy	Client	Amount (Rs.)	Completion
Training Program	Sri Kannapiran Mills, Coimbatore	3000/=	Sep 2023
Training Program	Sri Kannapiran Mills, Coimbatore	3000/=	Oct 2023

Presentations in Conference

1. **Effect of Majoranahortensis leaf extract on the apoptotic events in *Saccharomyces cerevisiae* cells subjected to oxidative stress**. National Symposium -Theta '11 held at SASTRA University, SRC, Kumbakonam, 18-20 Feb-2011. Won I prize for oral presentation.

2. **Majoranahortensis** “a potent antioxidant in goat liver slices when challenged with **H2O2**, National conference of Zoology, Raja Serfoji Govt. College, Thanjavur. 12-Apr-2011. Won III prize for oral presentation.
3. **Response of stress induced Hep2 cell lines to M. hortensis leaf extract treatment.** Current Trends In Advanced Biomedical Technology (CTAB 2011), Nehru arts & Science College, Coimbatore,20-Sep-2011. Won I prize for poster presentation.
4. **Protective effect of Majoranahortensis leaves against oxidative stress induced HepG2 cells.** IV Louis Pasteur Memorial symposium, Dr. NGP arts and Science College, Coimbatore, 4-Aug-2011. Won III prize for oral presentation.
5. **Differential effect of Majoranahortensis leaf extract on etoposide-induced apoptosis in Primary chick embryo fibroblasts and HepG2 cells,** Annual Meeting of the Society for Biotechnologists (India) & National Conference on 'Current Scenario in Biotechnology' 27-Sep-2012. Won Narasimiah Award for Best Paper Presentation in Cancer Biology
6. **In vitro effect of Majoranahortensis on H2O2 induced oxidative stress,** International Conference on Emerging Trends in Free Radicals, SFRR – Kolkata,3-Jan-2012.
7. **Inhibitory effect of Majoranahortensis leaf extract against oxidative biomolecular damage,** International conference on Indo Korean Medicinal Plant Research,Avinashilingam University,5-Feb-2012.
08. **Biomolecular protection rendered by Majoranahortensis leaves against oxidative stress,** International conference on Innovations in Free Radical Research & therapeutics,Karunya University, Coimbatore,21-Dec-2011.
09. **Transitional and Translational Scenarios in Biotechnology,** Dr. NGP Arts and Science College, Coimbatore, 10-Sep-2016.
10. **Bioabsorption of Zn from industrial effluent by spirulina,** Vivekananda College of Arts and science for Women, 8-Mar-2017.
11. **Challenges of Animal Tissue Culture,** KSCSTE sponsored National Seminar on Current Trends in Biotechnology, St. Joseph's College, Thiruvalla,15-Dec-2017.
12. **Biodegradation of heavy metals by electroplating using spirulina,** International Conference on Frontiers in Biotechnology, Nanda Arts and Science College, Erode, 3-Feb-2017
13. **Forest Resource Management,** State Level Seminar held at Viruthungar Hindu Nadars'Senthikumara Nadar College, Viruthunagar, 16-Feb-2018.
14. **Xylanase Production using Agricultural wastes,** Challenges and Advances in Microbiology, Annamalai University, 1-Feb to 2-Feb -2018.

16. ***Tridax procumbens* leaves as a source of bioplastic**, 8th International Conference on Recent Advances in Bioscience, KSG College of Arts and Science, Coimbatore, 28-Nov-2022.

17. **Are you a 21st Century teacher?** National Level Conference on Institutional Best Practices, Viruthungar Hindu Nadars' Senthikumara Nadar College, Viruthunagar, 24-Mar-2023.

18. **Antibacterial activity of *Ocimum basilicum*** XIV Louis Pasteur International Conference, DrNGP Arts and Science College, Coimbatore, 9-Mar-2023.

19. **Ultimatum of AI in Higher Education Institutions: An Indian Perspective**. National conference on “National Education Policy 2020: Challenges and Opportunities for Higher Educations in India” Dr. NGP Arts and Science College, Coimbatore, 27-Dec-2023.

20. **Cyber security embarking on Safety of IoT in Real life Dimensions**. National Seminar on IoT Cyber security: “Challenges and Solutions for Social and Real-life Applications sponsored by ICSSR” Dr. NGP Arts and Science College, Coimbatore, 05- Jan 2024.

21. **National Seminar on Integration of Traditional Indian Knowledge System into Modern Higher Education**, Dr. NGP Arts and Science College, Coimbatore, 04&05-July, 2024.

Participation in Conference/Seminars

National

1. National Conference – Changing Disease Profile, KMCH, Coimbatore, 6-Oct-2016.
2. National Conference – Rural Health and Non communicable disease, KMCRET, Coimbatore, 6-Apr-2018.
3. National conference - Biotechnological Effective Approach in Science and Technology – BEAST –II, KSR College of Arts and Science, October -2023.
4. National Conference - Molecular Revolution in Biology: Concepts and Techniques – Nirmala college for Women, March 25 and 26, 2024.
5. Palaniswamy. R and Kumar. N – National Conference on National Education Policy 2020: Challenges and opportunities for Higher Education Institutions in India Sponsored by ICSSR Proceeding Title - Ultimatum of AI in Higher Education Institutions: An Indian Perspective ISBN: 978-81-966306-7-6, Vol: I, pp : 376-388, 27.12.2023, Published : Dr.N.G.P Arts and Science College.
6. Palaniswamy. R and Kumar. N - National Seminar on IoT Cyber Security: Challenges and Solutions for Social and Real-Life Applications Sponsored by ICSSR, Proceeding Title: Cybersecurity Embarking on Safety of IoT in Real Life Dimensions, ISBN: 978-81-966306-3-8, Vol: I, pp: 8-13, Jan-24, Published : Dr.N.G.P Arts and Science College.

7. National Seminar on Integration of Traditional Indian Knowledge System into Modern Higher Education: NEP Perspective Sponsored by ICSSR, Proceeding Title: Aurveda and Good Health - A Review, ISBN: 9788197100055, Vol: II, pp: 311-316, 04 & 05-07-2024, Published : Dr.N.G.P Arts and Science College.

Participation in Workshop

1. Technical workshop on IPR, Sri Ramakrishna College of Arts and Science, Coimbatore, 15-Nov-2017.
2. Field Emission Scanning Electron Microscope, Avinashilingam University, Coimbatore, 16-Jun-2018.
3. Workshop on Scientific Writing, Karpagam University, Coimbatore, 24-Jun-2018 to 25-Jun-2018.
4. Workshop on Recent Advances in Biochemistry, National Science Academy, Dr. NGP Arts and science College, Coimbatore, 11-Aug-2018.
5. Workshop on Health Risk Assessment using Nano particles, Dr. NGP Arts and Science College, 5-Dec to 7-Dec-2019
6. Workshop on Animal Tissue Culture Techniques, Dr. NGP Arts and Science College, 30-Mar-2019.
7. Workshop on X-Ray Crystallography, Avinashilingam University, Coimbatore, 7-Feb-2020.
8. Workshop on 3D Bioprinting for Organ Replacement using Biogenerative Engineering, PSG Institute of Advanced Studies, Coimbatore, 25-Nov- 2022
9. Workshop on Innovative Tools in Plant Genome Editing using CRISPR/CAS 9 Technology, PSGR Krishnammal College for Women, Coimbatore, 03-Oct 2024.
10. Workshop on Academic Writing and Publication Skills, Indian Sociological Society, and Dept of Sociology, Manonmaniam Sundaranar University, 02-Dec to 06-Dec 2024.
11. Workshop on Navigating the Digital Landscape: A Marketing Guide, Progrezz Academic Training and Research Institute, 19- Dec 2024.

Participation in Orientation Programme / Short Term Courses

- National workshop on Statistical mathematical modeling, AIMSCS, Hyderabad, Oct-2012
- Online Workshop on Manufacturing Technologies for Tissue Engineering and Drug Delivery, Dr. BR Ambedkar National Institute for Technology, Jalandhar, 3-Oct-2020 to 7-Oct-2020.
- Orientation Program on National Institutional Ranking Framework, Bharathiar University, Coimbatore, 29-Dec-2022.
- Orientation on innovation Ambassador by MHRD, MoE, Govt.of India, 30-Jun to 30-July 2021.
- Orientation on NAAC Accreditation by IQAC Cluster India, Feb 5 to Feb 6- to Feb 27 2024.
- Masterclass Series of Intellectual Property Rights – IP Utsav by MoE’s Innovation Cell, Apr 21-to-Apr 26 2025.

Participation in Faculty Development Programme

1. Faculty Development Program, National Level Entrepreneurship –Initiate and Ignite, Avinashilingam University,17-Sep-2018 to 29-Sep-2018.
2. Faculty Development Program on Quality Measures in Higher Education, Dr. N.G.P. Arts and Science College, Coimbatore, 3-Dec 2018 to 9-Dec-2018
3. Faculty Development Program on Outcome Based Education, Dr. NGP Arts and Science College, Coimbatore, 29-May-2019 to 3-Jun-2019.
4. Faculty Development Program on Institution’s Innovation Council by MHRD, New Delhi, online course, 28-Apr-2020 to 22-May-2020
5. Faculty Development Program on Nanomaterial synthesis, Process, Characterization and its Functional Applications by Hindustan College of Engineering and Technology, Coimbatore, 6-Jul-2020 to 11-Jul-2020.
6. Faculty Development Program on IPRs for Professional Innovators, AVIT & Vinayaka Mission Research Foundation, 16-June-2020 to 20-June 2020.
7. Faculty Development Program on Outcome Based Education, KITS Guntur and IIT Kharagpur, 08-July 2020 to 10-July 2020.
8. Faculty Development Program on Responsibilities of Microbiologists in combating Pandemic Diseases, 08-July 2020 to 10-July 2020.
9. Faculty Development Program on Research Methodology and Pedagogy for Tertiary Education, Dr. NGP Arts and Science College, Coimbatore, 15-Jun-2021 to 21-Jun-2021.

10. Faculty Development Program on Introduction to Computers, Dr. NGP Arts and Science College with IIT Bombay, 04-Aug-2021 to 29-Dec-2021.
11. Faculty Development Program on Drug Engineering through Bioprospecting, AICTE sponsored, Dr. NGP Arts and Science College, 12-Jul to 16-Jul-2021.
12. Professional Development Program on Implementation of NEP 2020 for University and College Teachers, Indira Gandhi Open University, New Delhi, 07-Nov-2022 to 16-Nov 2022.
13. Faculty Development Program on Outcome Based Education by Dr. NGP Arts and Science College, Coimbatore, 17-Jun to 21-Jun 2023.
14. Faculty Development Program on Recent Trends in Mathematics and Technology by OP Jindal University, Chhattisgarh, 09-Oct to 13-Oct 2023.
15. Faculty Development Program on Upskilling Faculty Development by Cluster Department of Life Sciences, Ayya Nadar Janaki Ammal college, 21-Feb to 27-Feb 2024.
16. Faculty Development Program on 'Embracing Local Ecological Management and Environmental Norms through the Teachings of Sustainability via Pancha Bhootha and Indian Knowledge Systems, Dept of Microbiology, Rathinam College of Arts and Science, Coimbatore, 17-Oct to 23-Oct 2024.
17. Faculty Development Program on 'Revolutionizing Healthcare and Biotechnology: The Role of AI, Dept of Biotechnology, Sethu Institute of Technology. 03-Feb to 08-Feb 2025.

Conference / Seminar / Workshop Organized

1. Organizing Committee Member, Marina 2016, Dr. NGP Arts and Science College, Coimbatore, 21-Dec-2016 to 22-Dec-2016.
2. Organizing Committee Member, Marina 2017, Dr. NGP Arts and Science College, Coimbatore, 5-Dec-2107 to 6-Dec-2017.
3. Convener, National Workshop on Data Analytics and its Applications in Biotechnology, Dr. NGP Arts and Science College, Coimbatore, 14-Feb-2019.
4. Organizing Committee Member, Marina 2019, Dr. NGP Art and Science College, Coimbatore, 6-Sep-2019.
5. Organizer, Workshop on Scientific writing, Dr. NGP Art and Science College, Coimbatore, 1-Feb-2020.
6. Organizer, Workshop on Cost effective mushroom cultivation, Dr. NGP Arts and Science College, Coimbatore, 3-Feb-2020.

7. Organizer, Workshop on Phytochemical Extraction from Medicinal Plants, Dr. NGP Arts and Science College, Coimbatore, 22-Feb-2021.
8. Organizer, Workshop on Nanophotometer, Dr. NGP Arts and Science College, Coimbatore, 5-Mar-2021.
9. Organizer, Workshop on Spectroscope, Dr. NGP Arts and Science College, Coimbatore, 6-Mar-2021.
10. Organizer, Webinar Series of Biotechnology Dept, Dr. NGP Arts and Science College, Coimbatore, 08-Jun-2021
11. Organizer, DBT workshop on Nanophotometer, Dept, Dr. NGP Arts and Science College, Coimbatore, 30-Mar -2022
12. Organizing Committee Member, National Symposium on Graduate Research, Dr. NGP Arts and Science College, 28-Feb-2022.
13. Organizing Committee Member, International Conference on Expedition of Bioprospecting and tis Emerging Trends” 2023, Dr. NGP Arts and Science College, 30-Sep-2023.
14. Organized FDP program for Non Teaching Staff – Cyber Security Awareness and Graphic Design using Canva , Dr. NGP Arts and Science College, 21-Feb and 22-Feb 2024.
15. Organized FDP program for Teaching staff – NAAC reforms 2024: Binary Accreditation in Colleges, Dr. NGP Arts and Science College, 08-Apr, 2024.
16. Co-organized ICSSR sponsored National Seminar on Integration of Traditional Indian Knowledge System in Modern Higher Education NEP Perspective, Dr. NGP Arts and Science College, 04 & 05 July 2024.
17. Organizing Member for Integrating IKS with cutting edge Biotechnology and Innovative Technologies to achieve Sustainable Development Goals, Dr. NGP Arts and Science College, 22 Mar 2025.

Invited Speaker / Session Chair- Conference / Seminar / Workshop

1. Invited speaker, Animal Tissue Culture in Biozenith Association at NGP College of Arts and Science, Coimbatore, 7-Jul-14.
2. Invited speaker, "Challenges in Thesis Writing and Reviewing Articles", ThassimBeevi Abdul Kader College for Women, Kilakarai, 23-Jan15.
3. Invited Speark, 7th Annual Meet on Ethanopharmacology, Avinashilingam University, Coimbatore, 1-Mar-18.
4. Invited speaker, Conference on Animal Tissue Culture and Techniques, St. Joseph's College, Thrissur,4-Nov-17.
5. Invited speaker, Bioethics and Patenting, Avinashilingam University, Coimbatore, 1-Feb-18.
6. Invited speaker, Avogardo Association, Dr. NGP Arts and Science College, Coimbatore, 14-Mar-19.

7. Invited speaker, English Association Inauguration, Dr. NGP Arts and Science College, Coimbatore, 18-Jul-19.
8. Invited Speaker, Clinical Lab Technology, Dr. NGP Arts and Science College, Coimbatore, 22-Jul-19
9. Invited speaker, Inauguration of Catering Science Association, Dr. NGP Arts and Science College, Coimbatore, 26-Aug-19.
10. Invited speaker, Department of Commerce with Banking and Insurance Association Inauguration, Dr. N.G.P. Arts and Science College, 12-Sep-19.
11. Judge, Science Fusion celebrations, AVP Matriculation School, Tirupur, 4-Nov-19.
12. Resource person, Awareness on Health and Hygiene, Kannapiran Mills, Sowripalayam, Coimbatore, 08-Feb-20. .
13. Resource person, Awareness on healthy food and successful living, Srinivasa Mills, Then Thirupathi, Coimbatore, 17-Feb-20.
14. Resource person, De-addiction to tobacco and alcohol, KG Fabriks, SIPCOT, Perundurai, Erode, 24-Feb-20.
15. Chaired a session for Big Data Analytics in Clinical Research, Dr. NGP Arts and Science College, Coimbatore. 19-Mar-2021.
16. Resource Person, Insight into Animal Tissue Culture, Selvamm College of Arts and Science, Namakkal, 12-Jun-2021.
17. Resource Person, Glimpses of Covid 19, Sri Ramalinga Sowdambikai College of Arts and Commerce, Coimbatore, 14-Jun-2021.
18. Resource Person, Cancer biology, Hindustan College of Arts and Science, Coimbatore, 14-Dec 2021.
19. Resource Person, Manifestations of Cancer and HIV, Avinashilingam Institute for Home Science and higher Education for Women, Coimbatore, 25-Feb 2022.
20. Resource Person, 3D Bioprinting and Tissue Engineering, Department of Clinical Laboratory Technology, Dr. NGP Arts and Science College, Coimbatore, 11- Mar 2023
21. Resource Person, Ignite the Innovation in You, Dept of Computer Science, Dr. NGP Arts and Science College, Coimbatore, 13-Mar 2023.
22. Resource Person, Entrepreneurship Leads the World, Dept of BCom BPS, Dr. NGP Arts and Science College, Coimbatore, 20-Mar 2023.
23. Resource Person, Nutritional Aspects for Good Health, Sri Kannapiran Mills, Coimbatore, 14-Sep 2023.
24. Trainer, Everyday Wellness and Wellbeing, RnD soft – Coimbatore, 11-Oct 2023.
25. Resource Person, Nutrition and Good health, Sri Kannapiran Mills, Coimbatore, 13-Oct 2023.
26. Resource Person, Vanquish Nostalgic Moments at Workplace, Sri Kannapiran Mills, Coimbatore, 28-Oct 2023.
27. Resource Person, Impact of Physical and Mental Wellbeing at workplace, Sri Balaji Mills, Coimbatore, 31-Oct 2023.

28. Resource Person, Embrace your Potential, KG Fabrics, Perundurai, Coimbatore , 07-Nov 2023.
29. Resource Person, Naya Sal ka Sankalp, Sri Kannapiran Mills Ltd., Coimbatore, 01-01-2025.
30. Resource Person, Swasthe He Dhan Hai, Sri Kannapiran Mills Ltd., Coimbatore, 18-01-2025.

Awards / Honors

S.No.	Awards / Honors	Agency / Institute	Year of Award
1	Proficiency holder (French)	Avinashilingam University for Women, Coimbatore	1998
2	Gold medalist (Biotechnology)	Avinashilingam University for Women, Coimbatore	2005
3	Using Best ICT tools in teaching	Dr NGP Arts and Science College, Coimbatore	2019
4	Best Mentor Award	Dr NGP Arts and Science College, Coimbatore	2020
5	Best Faculty Award	Dr NGP Arts and Science College, Coimbatore	2020
6	Womens' Day Achiever	Pensioner's Association, TNAU, Coimbatore	2020
7	Women's Day Venturous Award	Dr, NGP Arts and Science College, Coimbatore	2022
8	Best Faculty Award	Dr, NGP Arts and Science College, Coimbatore	2022
9	Best Mentor Award	Dr, NGP Arts and Science College, Coimbatore	2022
10	Best Research Professors	Dr. NGP Arts and Science College, Coimbatore	2024

Editorial / Review Board Member/Membership in Professional Bodies

Name of Professional Body	Nature of Membership	Duration

International Journal of Climate Change	Reviewer	2023 onwards ongoing
Journal of Advances in Biology & Biotechnology	Reviewer	2023 onwards ongoing
Journal of Plant and Soil Science	Reviewer	2023 onwards ongoing
Journal of Scientific Research and reports	Reviewer	2023 onwards ongoing
National Institute for Technical Training & Skill Devp.	Member	2023 onwards ongoing
Journal of Energy Research and Review	Reviewer	2024 onwards ongoing
Uttar Pradesh Journal of Zoology	Reviewer	2024 onwards ongoing
Institute for Educational Research and Publication (IFERP)	Member	2025 onwards ongoing