



Name: Dr. K. Krishna Prema

Qualification: M.Sc., M.Sc., (Bioinformatics), M.Phil., Ph.D., SET., DCT.,

Designation: Associate Professor and Head

Teaching Experience: UG 22 years, PG years 15 years

Area of Specialization: General Microbiology, Microbial Physiology, Microbial Genetics, Molecular Biology

Email ID: krishnaprema@ethirajcollege.edu.in

MEMBERSHIPS

| S.No. | Particulars | State/National/International |
|-------|--|------------------------------|
| 1. | Life Member-Indian Science Congress Association (L16503) Since 27 th October 2010. | National |
| 2. | Life Member-Indian Association of Applied Microbiologists (453) Since 27 th September 2018. | National |

PROJECTS

| S.No. | Title | Duration | Funding Agency | Amount Sanctioned |
|-------|---|---------------|-----------------------|-------------------|
| 1. | Screening of Immune status against Rubella Virus in Premarital Women | (2015-2016) | Ethiraj College Trust | Rs.10,000/- |
| 2. | Isolation, Identification and Immobilization of Cyanobacteria that reduce Total Dissolved Solids in ground water samples from different areas of Chennai. | (2019 - 2021) | Ethiraj College Trust | Rs.13,499/- |

RESEARCH GUIDANCE

| | |
|------------------------|-------------|
| M.Sc., Projects Guided | 40 Students |
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WORKSHOPS PARTICIPATED

| S.No | Organized by | State/National/ International | Topic | Date(s) | Member/ Participated |
|------|--|----------------------------------|--|--|-------------------------|
| 1. | Dr. ALMPGIBMS University of Madras | State | Techniques in Diagnostic Microbiology | 1 st and 2 nd Mar 2017 | Participated |
| 2. | Sathyabama University | State | Lab Animal Handling and Research | 15 th Sep 2017 | Participated |
| 3. | Ethiraj College for Women, Chennai | State | Role and Responsibilities of Teachers in Institutional Development | 18 th Dec 2017 | Participated |
| 4. | Ethiraj College for Women, Chennai | State | Workshop for Faculty | 2 nd Mar 2018 | Participated |
| 5. | Presidency College, Chennai | National | Protein Bioinformatics | 22 nd and 23 rd Jan 2019 | Participated |
| 6. | Ethiraj College for Women, Chennai | State | NAAC Regulations: A Holistic Approach | 12 th Oct 2019 | Participated |
| 7. | SRM Institute of Science and Technology | National | Microbial Species Identification using Sanger Sequencing | 7 th and 8 th Nov 2019 | Participated |
| 8. | Dr. ALMPGIBMS University of Madras | State | Curriculum Revision for Under Graduate Microbiology Programme-University of Madras | 13 th Dec 2019 | Participated |
| 9. | TNSC&ST and Ethiraj College for Women | National | Intellectual Property Rights | 1 st Feb 2020 | Participated |
| 10. | Ethiraj College for Women, Chennai and SALIS | State | Working with Moodle Platform | 7 th and 8 th July 2020 | Participated |
| 11. | Mazbat College, Mazbat, Assam and North-Eastern Hill University, Shillong, Meghalaya | International | Essential Competencies for Online Teaching and Learning | 3 rd July 2021 | Participated |

CONFERENCES/SYMPOSIUM-ATTENDED/PRESENTED PAPER

| S.No. | Organized by | State/National/ International | Participated/ Presented/ Member | Topic | Date(s) |
|-------|---|----------------------------------|---------------------------------------|---|--|
| 1. | Ethiraj College for Women, Chennai | National Symposium | Participated | Potential for Excellence to Excellence in higher Education | 18& 19 th Jul 2016 |
| 2. | Dr.MGR Janaki College of Arts and Science for Women | International Conference | Attended | Modern Diagnostic tools in Health Science | 22 nd & 23 rd Aug 2016 |
| 3. | Dr.MGR Janaki College of Arts and Science for Women | International Conference | Participated | Molecular Signature – GenNxt | 13 th & 14 th Sept 2017 |
| 4. | Presidency College, Chennai | International Conference | Participated | Computer Simulation in Natural Sciences | 4-6 Apr 2018 |
| 5. | Satyabama Institute of Science and Technology | National Symposium | Presented Paper | The Application of Genomics and Proteomics in Aquaculture, Fisheries and Marine Biology | 20 th and 21 st Jun 2018 |
| 6. | JSS Academy of Higher Education and Research, Mysuru and Indian Association of Applied Microbiologists | National Conference | Presented paper | Human Microbiome in Personal Medicine- Bridging Humans & Microbes for future Sustainability | 27 th & 28 th Sept 2018 |
| 7. | Kamala Nehru Mahavidyalaya | International Online Conference | Participated | Smart Materials: Application to Devices-2021 | 17 th and 18 th May 2021 |
| 8. | SVKM's Mithibai College of Arts, Chauhan Institute of Science and Amrutben Jivanlal College of Commerce and Economics, University of Mumbai | National Symposium | Participated | Current Perspectives in Infection Control | 3 rd Jul 2021 |

SEMINARS ATTENDED

| S.No. | Organized by | State/National/ International | Topic | Date(s) |
|-------|--|----------------------------------|---|----------------------------|
| 1. | Ethiraj College for Women | State | Methods and Means to develop Research in Colleges | 4 th Aug 2015 |
| 2. | Ethiraj College for Women and Mind Education | State | Mind Education | 12 th Oct 2015 |
| 3. | Madras School of Social Work, Chennai | State | Draft of National Education Policy, 2016 | 10 th Sept 2016 |
| 4. | Ethiraj College for Women | State | Health 2020-An Alternative Perspective | 7 th Jan 2020 |

CERTIFICATE COURSES/VALUE ADDED COURSES COMPLETED

| S.No. | Offered by | Topic | Duration |
|-------|--|---|--|
| 1. | Anna University, Chennai | URKUND: Plagiarism Detection Service | 3 rd Apr 2019 |
| 2. | Centre for Continuing Education, IIT Madras | Short Term Course on Recent Advances in Biotechnology related to Tissue Regeneration | 7 th to 11 th Jan 2019 |
| 3. | Swayam ARPIT Online Course Certification | Teacher and Teaching in Higher Education. School of Education, | 16 Weeks (2019-2020) exam on 16 th Feb 2020 |
| 4. | Geetha Jeevan Arts and Science College and Killikulam Agri Business Incubation Forum, Killikulam | Online Certificate course on Agripreneurship: A Future for Farming | 15 th to 21 st Jun 2020 |
| 5. | Geetha Jeevan Arts and Science College, Killikulam | Skill Development Programme on Empowering the Art of Bakery | 18 th to 20 th Jun 2020 |
| 6. | Shri Vishnu College of Pharmacy | International Skill Development Program on Innovation in Natural Product Driven Drug Discovery and Analytical Chemistry | 6 th to 11 th Jul 2020 |
| 7. | Dr. Ambedkar Government Arts College, Chennai | International Skill Development Programme on Emerging Advancements and Technologies in the field of Life Sciences Teaching and Research | 8 th to 10 th Jul 2020 |
| 8. | Dr. Ambedkar Government Arts College, Chennai | National Capacity Building Training on Marine Biodiversity and its Conservation | 29 th to 31 th Jul 2020 |
| 9. | Swayam ARPIT Online Course Certification | Leadership and Governance in Higher Education Level 2 | 1 st Dec 2020 to 31 st Mar 2021 (16 Weeks) exam on 21 st Aug 2021 |

JOURNAL PUBLICATIONS

| S.No. | Journal Name | UGC/SCI/SCIE/WOS | ISBN/ISSN No. | Reference | Date of Publication No. |
|-------|---|------------------|---|--|-------------------------|
| 1. | Research Journal of Pharmacy and Technology | SCOPUS Indexed | 0974-3618 (Print) 0974-360X (Online) | Screening and Isolation of Fibrinolytic Enzymes from Bacteria using Agrowaste for Thrombolytic Treatment | April 2019 12(4) |
| 2. | The International Journal of Analytical and experimental Modal Analysis | UGC CARE II | 0886-9367 | <i>Nostoc</i> sp. – Potential Cyanobacterial Biofertilizer for Rice | Dec 2020 12(12) |
| 3. | Journal of Interdisciplinary Cycle Research | UGC CARE II | 0022-1945 | Isolation and Identification of Scytonemin – A Sunscreen Pigment produced by Cyanobacteria | Jan 2021 13(1) |
| 4. | Research Journal of Pharmacy and Technology | SCOPUS Indexed | 0974-3618 (Print) 0974-360X (Online) | Phytochemical Analysis of Commercially available <i>Spirulina</i> , their activities and biosynthesis of Nanoparticles | Dec 2021 14(12) |

FDP/STTP COMPLETED

| S.No. | Organized by | State/National/ International | Topic | Date(s) |
|-------|---|----------------------------------|---|---|
| 1. | Saveetha Engineering College and Elsevier | National FDP | Research Article Writing and Publication | 7 th Jul 2018 |
| 2. | Centre of Academic Leadership and Education Management, Aligarh Muslim University, Aligarh under the scheme of PMMMNMTT | National Training Programme | Academic Leadership | 28 th to 31 st Aug 2018 |
| 3. | Ethiraj College for Women, Chennai | State FDP | Quality Publications and E-Learning | 19 th Sept 2018 |
| 4. | St. Joseph's College of Engineering, Chennai | National STTP | Prospects and Challenges in Biofuels and Bioenergy | 11 th to 16 th Nov 2019 |
| 5. | Sathyabama Institute of Science and Technology, Indian Association of Applied Microbiologists and California Institute of Science and Medicine, USA | International FDP | Novel Microbes and Newer Threats | 20 th Apr to 2 nd May 2020 |
| 6. | Teaching Learning Centre, Ramanujan College, University of Delhi and PMMMNMTT | National FDP | Managing Online Classes and Co-Creating MOOCS | 20 th Apr to 6 th May 2020 |
| 7. | Asan Memorial College of Arts and Science, Chennai | State FDP | Higher Education Post-Covid – Random Thoughts | 11 th May 2020 |
| 8. | Sathyabama Institute of Science and Technology, Indian Association of Applied Microbiologists and Georgetown University, USA | International FDP | Practical Bioinformatics on a Wet-Lab Set-Up | 11 th May to 16 th May 2020 |
| 9. | Ethiraj College for Women, Chennai | International FDP | Recent Trends in Molecular Biotechnology | 3 rd and 4 th Jun 2020 |
| 10. | Ethiraj College for Women, Chennai | International FDP | Adapting to the Covid Era | 12 th Jun 2020 |
| 11. | Ethiraj College for Women, Chennai | National FDP | Open - Source Learning Platform: Moodle | 24 th Jun 2020 |
| 12. | Ethiraj College for Women, Chennai | National FDP | Recasting from Onsite to Online Pedagogy | 20 th to 24 th Jul 2020 |
| 13. | Sagar Institute of Research and Technology-Pharmacy, Bhopal | STTP | Human Values, Ethics, Morals, Behavioural Sciences and Attitude | 20 th to 25 th Jul 2020 |
| 14. | KIIT College of Engineering, Gurugram | STTP | Human Values, Ethics, Morals, Behavioral Sciences and Attitude | 10 th to 15 th Sept 2020 |
| 15. | Sagar Institute of Research and Technology-Pharmacy, Bhopal | STTP | Human Values, Ethics, Morals, Behavioural Sciences and Attitude | 21 st to 26 th Sept 2020 |

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| 16. | Amar Sewa Mandal's Kamala Nehru Mahavidyalaya, Nagpur | National FDP | Research Methodology | 26 th Apr to 1 st May 2021 |
| 17. | Sagar Institute of Research and Technology-Pharmacy, Bhopal | STTP | Interplay between Health Wellbeing, Environment and Community Pharmacy | 26 th Apr to 1 st May 2021 |
| 18. | RCP Universe Group of Institutions, Roorkee | National FDP | E-Content and ICT Tools for Innovative Teaching and Learning | 1 st to 7 th May 2021 |
| 19. | Jagannath International Management School, New Delhi | STTP | Enhancing Emotional Intelligence in Academicians to Connect with Next Generation Students | 24 th to 29 th May 2021 |
| 20. | PPG College of Arts and Science | National FDP | Nurturing the Next Generation Educators | 12 th to 18 th Jun 2021 |
| 21. | Idhaya Engineering College for Women | National FDP | Innovation, Incubation, Startup and Research Challenges in India | 7 th to 11 th Jun 2021 |
| 22. | Amar Sewa Mandal's Kamala Nehru Mahavidyalaya, Nagpur | National FDP | ICT tools for effective Teaching Learning | 8 th to 10 th Jun 2021 |
| 23. | Balaji Institute of Technology and Science, New Delhi | National FDP | Foregrounding the Spectrum of Character Building in Modern Human Life | 25 th Jun to 3 rd Jul 2021 |
| 24. | Shri S.R. Kanthi Arts, Commerce and Science College, Mudhol | National FDP | Tools used in Digital Training and Learning | 5 th to 10 th Jul 2021 |
| 25. | Government First Grade College for Women and St. Aloysius College, Mangaluru Under Paramarsh Scheme | National FDP | Transformation in Indian Education through New Education Policy- Challenges and Opportunities | 5 th to 11 th Jul 2021 |
| 26. | IPS Academy, Institute of Engineering and Science, Indore | STTP | Water Quality Complications, Restoration and Environmental Conservation of Existing Water Bodies Module I | 2 nd to 7 th Aug 2021 |
| 27. | IPS Academy, Institute of Engineering and Science, Indore | STTP | Water Quality Complications, Restoration and Environmental Conservation of Existing Water Bodies Module II | 22 nd to 27 th Nov 2021 |

WEBINAR (STATE/NATIONAL/INTERNATIONAL) ATTENDED

| S.No. | Organized by | State/ National/ International | Topic | Date(s) |
|-------|---|--------------------------------------|--|---|
| 1. | Atal Incubation Centre,Pondicherry Engineering College Foundation, Puducherry | National | How to Conduct Online Class to Students | 9 th Apr 2020 |
| 2. | Sathyabama Institute of Science and Technology | National | Biotechnological and Nanotechnological Application for Marine Bioresource Augmentation | 4 th to 9 th May 2020 |
| 3. | Sri Ramakrishna College of Arts and Science for Women, Coimbatore | National | Bioscience for Enriching Human Life | 14 th to 17 th May 2020 |
| 4. | Ethiraj College for Women, Chennai | National | Patenting Inventions in India | 16 th May 2020 |
| 5. | Crescent Innovation and Incubation Council, Chennai | National | Strategies for Low Budget Research | 20 th May 2020 |
| 6. | Ethiraj College for Women, Chennai | National | Moodle LMS – Install, Creating Class, Add Content and Enroll Students | 28 th May 2020 |
| 7. | Crescent Innovation and Incubation Council, Chennai | National | BIRAC's Role in Creating the Startup Innovation Ecosystem | 29 th May 2020 |
| 8. | Sri Sai Ram Institute of Management Studies, Sri Sai Ram Engineering College | National | Research and Post-Doctoral Fellowship Opportunities in Foreign Universities | 29 th May 2020 |
| 9. | Biocon Academy and Biotechnika | National | Microbiologists in Everybody | 3 rd June 2020 |
| 10. | Dr.MGR Janaki College of Arts and Science for Women | International | The Trinity of Covid-19: Immunity, Implications and Interventions | 4 th to 6 th Jun 2020 |
| 11. | Dr.MGR Educational and Research Institute, Chennai | National | Role of Nanomaterial in Electrochemical devises and Photocatalysis | 15 th Jun 2020 |
| 12. | Ethiraj College for Women, Chennai | State | Protection of Human Rights in times of Pandemic | 19 th Jun 2020 |
| 13. | Biotechnika Info Labs Pvt Ltd | National | Microbiome-Perceptions and Perspectives | 27 th Jun 2020 |

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| 14. | Ethiraj College for Women, Chennai and Society for Advancement of Library and Information Science | State | Working with Moodle Platform | 7 th and 8 th Jul 2020 |
| 15. | Ethiraj College for Women, Chennai and Society for Advancement of Library and Information Science | State | Open Education Resources | 11 th Jul 2020 |
| 16. | Ethiraj College for Women, Chennai | National | Real-Time PCR in Molecular Diagnostics of Viral Infections | 27 th Jul 2020 |
| 17. | Corporate Relation Cell, Assam University, Silchar | National | The fourth wave of Management in the Light of Indian Ethos | 28 th Aug 2020 |
| 18. | Sivananda Sarma Memorial R.V. College, Bangaluru | National | Awareness and Utilization of E-Resources through Open Access System | 19 th and 20 th Apr 2021 |
| 19. | Govt. Degree College for Women, Jagtial, Telangana | National | Plant Systematics- Biodiversity and Environment | 10 th and 11 th May 2021 |
| 20. | S.P. Mandali's Ramnarain Ruia Autonomous College, Mumbai and University of Mumbai | National | Inclusive, Innovative and Sustainable Future of Education-NEP 2020 | 24 th and 25 th May 2021 |
| 21. | Swami Keshwanand Rajasthan Agriculture University, Bikaner | National | Role of Microorganisms in Resilient Agriculture | 5 th Jul 2021 |
| 22. | Sarawathi Law College, Chitradurga, Karnataka | National | Overview of Property Rights of Hindu Women in India | 13 th Jul 2021 |
| 23. | MPM Government First Grade College, Karkala, Udupi | International | Pandemic, Exclusionary Policies and Practices and Translational Intersectionalities: Notes on Covid 19 | 21 st Jul 2021 |
| 24. | Ethiraj College for Women | National | Research Insights | 20 th to 22 nd Dec 2021 |

ORGANIZED (CONVENOR) - WORKSHOPS/CONFERNCES/SYMPOSIUM/WEBINARS

| S.No. | State/National/ International | Topic | Date(s) |
|-------|------------------------------------|---|--|
| 1. | National Seminar | Seminar on Career Prospects in Life Sciences | 31 st Jan 2017 |
| 2. | International Workshop | Operons and Vaccines | 4 th Dec 2017 |
| 3. | National Conference | Trends and Innovations in Biological Sciences | 14 th and 15 th Feb 2018 |
| 4. | State Workshop | Microbiological Techniques for School Students | 30 th and 31 st Aug 2018 |
| 5. | State Workshop | Recent Advances in Biological Research Data Analysis | 1,2 and 4 th Feb 2019 |
| 6. | State Faculty Development Workshop | Research Insights, Publications and Proposal Strategies | 15 th July 2019 |
| 7. | State Faculty Development Workshop | Research, Innovation and Creativity | 14 th Sep 2019 |
| 8. | State Workshop | Curriculum Revision for Under Graduate Microbiology Programme- University of Madras | 6 th Dec 2019 |
| 9. | State Workshop | Intellectual Property Rights and their Implications | 22 nd Jan 2020 |
| 10. | International Webinar Series | Exploring and Understanding World Pandemics | 11 th to 13 th May 2020 |
| 11. | State Webinar | Recent trends in Biotechnology and its Opportunities | 16 th May 2020 |
| 12. | State Webinar | Biology Degrees and Careers at a Glance | 23 rd May 2020 |
| 13. | National Webinar Series | Alternative Therapy - A Way of Living | 25 th to 29 th May 2020 |

OTHERS

- Resource Person for Workshop on Art of Thesis Writing at Annai Violet Arts and Science College, Chennai on 8th February 2017.
- Resource Person for Seminar on Opportunities in Microbiology at Annai Violet Arts and Science College, Chennai, 27th September 2017.
- Member, Executive Committee Member, Ethiraj College Parent Teacher Association from 2017 to 2020.
- Member, Board of Studies in Microbiology, University of Madras, from 1st January 2018 to 31st December 2020.
- Dean of Research (Self-Supporting), Ethiraj College for Women from 24th July 2018 to 23rd Jul 2020.
- External Examiner in Board of Examiners to pass Semester Exam Results in Presidency College, 13th December 2018.
- Subject Expert for Special Drive Scrutiny Committee for the Approval of Assistant Professors Qualification, University of Madras, 29th September 2019.
- Coordinator, Workshop for Revamping the Curriculum, University of Madras, 6th December 2019.
- Member, Inspection Commission for granting Provisional Affiliation for B.Sc. Microbiology in Lakshmi Bangaru Arts and Science College, Melmaruvathur, 19th November 2020.
- Member, Inspection Commission for granting Provisional Affiliation for B.Sc. Microbiology in Apollo Arts and Science College, Guduvanchery, 6th February 2021.
- Subject Expert for Academic Audit University of Madras, 4th May 2021.
- PG Subject Expert for Board of Studies, Presidency College, Chennai 2020-2021 and 2021-2022.
- PG Subject Expert for Board of Studies, Justice Basheer Ahmed Sayeed College for Women, Chennai, 2021-2022.
- External Examiner in various Colleges for Practical and Theory Examinations.