

## **FACULTY PROFILE**

1. Name: Ms. DEEPA R.
2. Designation: Assistant Professor, Department of Microbiology
3. Qualification: M.Sc., M.Phil., NET.,
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5. E-mail id: [deepakalyanimbio@gmail.com](mailto:deepakalyanimbio@gmail.com) / [rdepa@auxiliumcollege.edu.in](mailto:rdepa@auxiliumcollege.edu.in)
6. Teaching Experience: UG: 7 Years 10 months PG: 3 years
7. Area of specialization: Bioremediation, Environmental Microbiology and Industrial Microbiology
8. Positions held in Auxilium:
  - ASQC Staff Coordinator (Shift II),
  - Quiz Club Coordinator (Shift II) and
  - Member of Committee for the Conduct of Examinations.
9. Research Experience: 1 year
10. No. of Papers Published: 03
11. No. of Papers Presented in the National Seminar: 01
12. Membership in Professional bodies: Member of Nature Science Foundation, Coimbatore.
13. No. of Online Courses completed (Minimum of 4 Weeks): 12

## PUBLICATIONS

### Publications in Journals

- **R.Deepa\***, A. Vidhya and S. Arunadevi. ‘Screening of Bioemulsifier and Biosurfactant Producing *Streptomyces* from Different Soil Samples and Testing its Heavy metal Resistance Activity’, International Journal of Current Microbiology and Applied Sciences, ISSN 2319-7706, April-2015, Vol. 4, Issue 5, pp 687-694.
- **R.Deepa** and A. Vidhya\*. ‘Production and Characterization of Polyhydroxybutyrate by *Nocardia* sp. RD13 isolated from Agriculture Rhizosphere Soil’, International Journal of Research in Biosciences, ISSN 2319-2844, January-2018, Vol. 7, Issue 1, pp 45-51.
- **R.Deepa** and A. Vidhya\*. ‘Characterization of Biopolymer Produced by *Streptomyces* sp. RDD’, International Journal of Pharmacy and Biological Sciences, ISSN 2321-3272 (Print) / ISSN 2230-7605 (Online), April-2019, Vol. 9, Special Issue 2, pp 392-397.

### FDP’S/ SEMINARS/ WORKSHOPS/WEBINARS

#### FDP’s

- Faculty Development Programme on “Promoting Youth volunteerism and skill development through global recognition”- Audacious Dreams Foundation, India, Vellore in Association with Department of Business Administration, Auxilium College (Autonomous), Vellore- 10<sup>th</sup> February, 2016.
- Faculty Development Programme on “Enriching and enhancing the effectiveness of teaching using 21st century skill sets”- The Board of Management, Auxilium College (Autonomous), Vellore in association with The Haskalah Academy, Chennai- 5<sup>th</sup> June to 7<sup>th</sup> June, 2019.
- Faculty Development Programme on “Cell Designer”- Department of Biochemistry, Auxilium College (Autonomous), Vellore in association with Spoken Tutorial, IIT Bombay- National- 25<sup>th</sup> May to 31<sup>st</sup> May, 2020.
- Faculty Development Programme on “LaTeX, R Programming & Python”- Guru Nanak University, Hyderabad, Telangana in association with Remote Learning through Spoken Tutorial, IIT Bombay- National- 25<sup>th</sup> May to 30<sup>th</sup> May, 2020.
- Faculty Development Programme on “Techno Advancement in Climate Change & Marine Sciences - A Key to Conservation and Sustainability”- Department of Biotechnology, Vel Tech High Tech Dr. Rangarajan Dr. Sakunthala Engineering College, Chennai- National- 1<sup>st</sup> June to 6<sup>th</sup> June, 2020

- Faculty Development Programme on “Research Methodology”- Department of Communication Media, Auxilium College (Autonomous), Vellore in association with School of Media and Communication, Shankarlal Shasun Jain College for Women, Chennai- National- 4<sup>th</sup> June to 10<sup>th</sup> June, 2020.
- International Faculty Development Programme on “Evolving Best Teaching and Learning Practices in Pandemic Era 2020”- The Board of Management, Auxilium College (Autonomous), Vellore- International- 15<sup>th</sup> June to 21<sup>st</sup> June, 2020.
- Faculty Development Programme on “Applications of Molecular Techniques in Biomedical Research”- RUSA 2.0 – Entrepreneurship and Career Hub, University of Madras- National- 29<sup>th</sup> July to 31<sup>st</sup> July, 2020.
- Five Days International e-FDP series- PG & Research Department of Commerce, Arignar Anna Government Arts College- International- 28<sup>th</sup> July to 1<sup>st</sup> August 2020.
- Faculty Development Programme on “Quality Sustenance and Enhancement Parameters - NAAC and NIRF Ranking Framework”- Internal Quality Assurance Cell (IQAC) of Marudhar Kesari Jain College for Women, Vaniyambadi- State- 6<sup>th</sup> August to 7<sup>th</sup> August, 2020.
- Faculty Development Programme on “The role of Teacher in Nation Building”- Department of English, Commerce and IQAC, Keshav Memorial Institute of Commerce and Sciences in Collaboration With ICSSR-SRC, MHRD, New Delhi- National- 4<sup>th</sup> August to 9<sup>th</sup> August, 2020.
- Faculty Development Programme on “Entrepreneurship Development”- Centre for Molecular and Nanomedical Sciences, International Research Centre (IRC), Sathyabama Institute of Science and Technology, Chennai- National- 10<sup>th</sup> August to 17<sup>th</sup> August, 2020.
- Faculty Development Programme on “Online Teaching Tools”- IQAC, Rajah Serfoji Government College, Thanjavur- National- 18<sup>th</sup> August, 2020.
- Faculty Development Programme on “Research Article Writing and Online Academic Presentation”- Department of Zoology & Biotechnology and Internal Quality Assurance Cell (IQAC) of Government Girls' P.G. College, Ujjain M.P. In association with The National Academy of Sciences, India, Bhopal- National- 17<sup>th</sup> August to 23<sup>rd</sup> August, 2020.
- Faculty Development Programme on “Outcome Based Education”- IPSR Solutions in association with Auxilium College (Autonomous), Vellore- National- 22<sup>nd</sup> November to 27<sup>th</sup> November, 2021.
- A Two-Week Online FDP on “LibreOffice suite Writer, Calc & Impress”- STP IIT Bombay in association with Auxilium College (Autonomous), Vellore- National- 26<sup>th</sup> May to 10<sup>th</sup> June, 2022.

- Faculty Development Online Certificate Course on “MICROSCOPY–AN OVERVIEW (Phase I)”- Department of Microbiology, Sacred Heart College (Autonomous), Tirupattur, Tamil Nadu, India in association with Microbiologists Society, India; Biotechnology Society of Nepal and Laboratory of Chemical and Biological Analysis (LAQB), Western Rio Janeiro State University (UEZO), Rio de Janeiro, Brazil- International- 3<sup>rd</sup> February to 9<sup>th</sup> February 2023.

### **Participation in Workshop**

- Workshop on “Molecular Techniques”- Adhiparasakthi College of Arts and Science (Autonomous), Vellore- National- 13<sup>th</sup> February to 14<sup>th</sup> February, 2013.
- Workshop on “4<sup>th</sup> National DNA Day”- Department of Biomedical Sciences, School of Bio Sciences and Technology, VIT University- National- 4<sup>th</sup> March to 5<sup>th</sup> March, 2017.
- Workshop on “Biological Diversity Act”- Enviro Club, Auxilium College, Vellore in collaboration with the National Biodiversity Authority, Chennai- National- 18<sup>th</sup> January to 19<sup>th</sup> January, 2019.
- Workshop on “Intellectual Property Rights”- Tamilnadu State Council for Science and Technology, Chennai and the Research Cell and IPR Cell of Auxilium College (Autonomous), Vellore- State- 2<sup>nd</sup> August to 3<sup>rd</sup> August, 2019.
- One day National Workshop on “Innovation and Intellectual Property Rights Filing”- Innovation Club (Institute Innovation Council), Dr B R Ambedkar National Institute of Technology Jalandhar, Punjab, India- National- 1<sup>st</sup> July, 2020.
- Virtual Hands-on Training Workshop on "ICT Competency for Higher Education"- DG Vaishnav College, Chennai- National- 13<sup>th</sup> July to 15<sup>th</sup> July, 2020.
- Online Workshop on “Advances in waste water treatment technologies- challenges and Opportunities” School of Energy & Environmental Sciences, Maulana Abul Kalam Azad University of Technology, West Bengal- National- 14<sup>th</sup> August, 2020.
- Workshop on “Documentation and data management”- IQAC, Auxilium College (Autonomous), Vellore- 29<sup>th</sup> October, 2021.
- Workshop on “National Intellectual Property Awareness Mission”- National- 25<sup>th</sup> January, 2022.

### **Paper presented in Seminar**

- Paper presentation on the topic “Screening of Actinobacteria for the production of Bioemulsifier and Biosurfactant and Testing its Heavy metal Resistance” in National Level Seminar on “Microbes in Human Perspectives in this Millennium”- Shanmuga Industries Arts and Science College (Co-Ed), Thiruvannamalai- National- 7<sup>th</sup> January, 2015.

### **Participation in Seminars / Conferences**

- National Level Seminar on “Recent Trends in Microbiology and Microbial Nanotechnology”- D.K.M.College for Women (Autonomous), Vellore- National- 12<sup>th</sup> February, 2010.
- National Seminar on “Recent Trends in Microbiology – EUPRO ’11”- Auxilium College (Autonomous), Vellore)- National - .11<sup>th</sup> October, 2011.
- National Level Seminar on “Marine Microbes (MIC-BIO WINDHOVER ’2012)”- D.K.M.College for Women (Autonomous), Vellore- National- 10<sup>th</sup> February, 2012.
- National Seminar on “Chromatographic Techniques (NSCT-13)”- Department of Analytical Chemistry, University of Madras, Chennai- National- 30<sup>th</sup> August 30 to 31<sup>st</sup> August, 2013.
- State Level Seminar on “Biodiversity and Application of Microalgae-2013”- K.M.G.College of Arts and Science, Gudiyattam- State- 6<sup>th</sup> September, 2013.
- One Day National Level Seminar on “Advances in Life Sciences”- Department of Zoology, D.K.M.College for women (Autonomous), Vellore, National- 1<sup>st</sup> October, 2013.
- International Conference on “Recent Trends in Life Science” (Biomic ’13)- Auxilium College (Autonomous), Vellore)- International- 12<sup>th</sup> December to 13<sup>th</sup> December, 2013.
- National Level Seminar on “Emerging Multiple Drug Resistant (MDR) and Extensively Drug Resistant (XDR) Microbes” (MIC-BIO WINDHOWER ’2014)- D.K.M.College for Women (Autonomous), Vellore- National- 10<sup>th</sup> January, 2014.
- 12<sup>th</sup> National Conference of Indian Association of Applied Microbiologists (IAAM) on “Global Trends and Challenges in Biosciences”- Dr. MGR Janaki College of Arts and Science for Women, Chennai- National- 5<sup>th</sup> December to 6<sup>th</sup> December, 2014.
- National Conference on “Journey Towards Excellence”- IQAC, Auxilium College (Autonomous), Vellore- National- 9<sup>th</sup> February to 11<sup>th</sup> February, 2017.
- National Conference on “Teaching, Learning and Evaluation Changes and Challenges”- IQAC, Auxilium College (Autonomous), Vellore- National- 30<sup>th</sup> January to 31<sup>st</sup> January, 2020.

### **Participation in Webinar**

- International Webinar on “COVID-19 Vaccine Development”- Department of Microbiology, Ayya Nadar Janaki Ammal College (Autonomous), Sivakasi- International- 15<sup>th</sup> May, 2023.

- National Webinar on “Outcome Based Education and Curriculum Design”- IQAC of Auxilium College (Autonomous) in association with Don Bosco College (Co-Ed) Yelagiri Hills- National- 15<sup>th</sup> May to 16<sup>th</sup> May, 2020.
- National Webinar on “Taking Research Forward During the Pandemic”- Loyola Institute of Frontier Energy (LIFE), Loyola College (Autonomous), Chennai- National- 20<sup>th</sup> May, 2020.
- International Webinar on “Novel Approaches: Human Therapy and Animal Nutrition”- Directorate of Distance Education – Microbiology Wing, Alagappa University, Karaikudi - International- 28<sup>th</sup> May to 30<sup>th</sup> May, 2020.
- “Insights into Emerging Diseases–Diagnosis and Therapeutics”- Department of Zoology, Lady Doak College, Madurai- National- 18<sup>th</sup> May to 1<sup>st</sup> June, 2020.
- International Webinar on “Biotechnology: Application Areas and Development Process”- Directorate of Distance Education – Biotechnology Wing, Alagappa University, Karaikudi- International- 31<sup>st</sup> May to 2<sup>nd</sup> June, 2020.
- International webinar series on “Infectious Disease–Biology, Diagnosis, Preventive Strategies of Coronavirus”- Department of Plant Biology and Biotechnology, Loyola College, Chennai - International- 1<sup>st</sup> June to 4<sup>th</sup> June, 2020.
- International Webinar series on “The Trinity of COVID – 19: Immunity, Implications and Interventions”- Department of Microbiology, Biochemistry, PG Department of Applied Microbiology and Bioinformatics & Clinical Management, Dr. MGR – Janaki College of Arts and Science for Women, Chennai - International- 4<sup>th</sup> June to 6<sup>th</sup> June.
- National Webinar on “Publishing quality research in high impact journals, National and International”- Guru Nanak Khalsa College of Arts, Science and Commerce, Mumbai- National- 23<sup>rd</sup> June, 2020.
- “Role of fermented foods in Pandemic era”- Guru Nanak Khalsa College, Mumbai & Swedish South Asian Network on Fermented foods (SASNET-FF) in association with Lund University, Sweden and Anand Agricultural University, Anand- International- 25<sup>th</sup> June, 2020.
- International Webinar on “Reshaping education through life skills during the pandemic”- Alagappa University College of Education- International- 26<sup>th</sup> June 2020.
- National Webinar on “Mind Mapping for Success”- Department of BMM/ BAMMC of Guru Nanak Khalsa College of Arts, Science and Commerce (Autonomous) in association with IQAC and sponsored by RUSA- National- 2<sup>nd</sup> July, 2020.
- National Webinar on Tropical foods for metabolic syndrome- Department of Food Technology, Mizoram University, Aizwal- National- 3<sup>rd</sup> July, 2023.
- International webinar on “Changing Trends in Vaccination Strategies - Lessons Learnt from Polio”- Alpha Arts and Science College- National- 11<sup>th</sup> July, 2020.

- International Webinar on “Microbial Diversity”- Biodiversity Conservation Foundation (BCF), India- International- 12<sup>th</sup> July, 2020.
- “Entrepreneurial Opportunities in Food Processing Sector”- Department of Food Engineering, National Institute of Food Technology Entrepreneurship & Management (NIFTEM)- National- 15<sup>th</sup> July, 2020.
- National Webinar on “Research Methodology”- Loyola College, Chennai- National- 17<sup>th</sup> July 2020.
- One day National Webinar on “Microplastics–Identification, Quantification and its Impact on Marine Biodiversity”- Department of PG Zoology, Aditanar College of Arts and Science, Tiruchendur- National- 24<sup>th</sup> July, 2020.
- An Insight into Commercial Applications of Microorganisms in the Current Era- Department of Microbiology, Madras Christian College (Autonomous), Chennai- National- 24<sup>th</sup> July to 25<sup>th</sup> July, 2020.
- “Research Competencies and Publications”- Faculty of Education, Teerthanker Mahaveer University, Delhi Road, Moradabad, Uttar Pradesh- National- 31<sup>st</sup> July, 2020.
- National Webinar on “Fermentation Technology”- Department of Microbiology K.R.College of Arts & Science, Kovilpatti- National- 5<sup>th</sup> August, 2020.
- International Webinar on “Advances in Microbiological Research”- Department of Microbiology, Ramaiah College of Arts, Science and Commerce, Bengaluru- International- 17<sup>th</sup> August to 20<sup>th</sup> August, 2020.
- International webinar on “Sustainable Development: Past, Present and Future”- Chintamani College of Arts and Science Gondpipri Dist. Chandrapur (MS) India- International- 25<sup>th</sup> August, 2020.
- International Webinar on “Recent Trends in Biomedical Sciences- PG & Research Department of Advanced Zoology and Biotechnology, Guru Nanak College (Autonomous), Chennai- International- 24<sup>th</sup> August to 26<sup>th</sup> August, 2020.
- National Webinar on “Vaccines for COVID-19 & Ahead”- Department of Zoology Utkal University, Bhubaneswar, Odisha in Association with Zoological Society of Orissa- National- 27<sup>th</sup> August, 2020.
- National Webinar on “Dietary based phytochemicals for combating COVID19”- Andhra Loyola College- National- 29<sup>th</sup> August, 2020.
- National Webinar on “Global race to develop COVID-19 Vaccine”- Department of Microbiology, Swa. Sawarkar Arts, Science and Commerce College, Beed (M.S) in association with Microbiologists Society, India- National- 6<sup>th</sup> September, 2020.
- National Webinar on “National Education policy”- IQAC, Auxilium College (Autonomous), Vellore- National- 12<sup>th</sup> October, 2020.

- International Web Conference “Coaxial Living with Microbes–III: Demystifying the Multidrug Resistant Pathogens”- Department of Biosciences, Maharaja Ranjit Singh College of Professional Sciences, Indore- International- 16<sup>th</sup> and 17<sup>th</sup> January, 2021.
- International webinar on “Safe food today for a healthy tomorrow”- Valliammal College for Women, Chennai- International- 5<sup>th</sup> June, 2021.
- International level webinar on “Mushroom World”- K.R.College of Arts and Science- International- 30<sup>th</sup> July, 2021.
- National Webinar on “Research Productivity and Institute Intellectual Output”- Auxilium College (Autonomous) Library- National- 5<sup>th</sup> November, 2022.
- National Webinar on “Green Campus initiatives towards sustainable development”- IQAC, Auxilium College (Autonomous)- National- 29<sup>th</sup> July, 2023.
- National Webinar on “Publish and Progress”- IQAC, Committee for Research Ethics, Publication and IPR and Library, Auxilium College (Autonomous) - National- 26<sup>th</sup> August, 2023.

### **Online Courses Completed**

- Food Microbiology – SWAYAM - 12 Weeks – June 2019 to November 2019.
- Integrated Pest Management – agMOOCs - Centre for Development of Technical Education, IIT Kanpur & Commonwealth of Learning (COL), Canada - 8 weeks - April 2020 to June 2020.
- Fundamentals of Agricultural Extension– agMOOCs - Centre for Development of Technical Education, IIT Kanpur & Commonwealth of Learning (COL), Canada – 8 weeks - April 2020 to June 2020.
- Medical Bacteriology - Department of Microbiology, Sacred Heart College (Autonomous), Tirupattur, Tamil Nadu, India in association with Microbiologists Society, India and Western Rio Janeiro State University – UEZO, Rio De Janeiro, Brazil – 4 Weeks – 4 Weeks - 1<sup>st</sup> June to 30<sup>th</sup> June, 2020.
- MOOC course on “Indian Kitchen Herbs for Respiratory Disorders: Ayurvedic & Modern Perspective” - RK University, Rajkot, India – 4 weeks - 6<sup>th</sup> July to 3<sup>rd</sup> August, 2020.
- English for healthcare - Future Learn & King's College London – 4 weeks - 17<sup>th</sup> July to 8<sup>th</sup> August, 2021.
- Entrepreneurship: From Business Idea to Action - Future Learn & King's College London – 4 weeks - 20<sup>th</sup> July to 8<sup>th</sup> August, 2021.



- Coping with changes: Social-Emotional Learning through Play - Future Learn & The LEGO Foundation – 9 weeks - 17<sup>th</sup> July to 10<sup>th</sup> September, 2021.
- Best Practice for Education: Professional Development of Showcase - Future Learn & Study Melbourne Victoria Australia – 4 weeks - 13<sup>th</sup> January to 31<sup>st</sup> January, 2021.
- Teaching and Assessing Core Skills - Future Learn & British Council – 4 weeks - 6<sup>th</sup> November to 7<sup>th</sup> December, 2022.
- Research Methods: A practical guide to peer and community research – Future Learn & Kings College London – 10 weeks - 22<sup>nd</sup> June to 25<sup>th</sup> August, 2023.
- COVID-19: Immunology, vaccines and epidemiology – The Open University – 8 weeks - 23<sup>rd</sup> July to 17<sup>th</sup> September 2023.