Ananthi Jeyaraman, Ph.D

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Academic Qualifications

Ph.D, Applied Microbiology - Botany (Inter disciplinary)
University of Madras, Chennai, India *2007*

M.Sc, Microbial Gene Technology
Madurai Kamaraj University, Madurai, Tamil Nadu, India *1999*

B.Sc, Bio Chemistry
VVV College, Madurai Kamaraj University, Tamil Nadu, India *1997*

Teaching Experience

Assistant Professor

Department of Biotechnology, Lady Doak College, Madurai *2014 onwards*

Research Experience

Research Associate

Regional Plant Quarantine Station, Chennai *2012-2014*

1. Laboratory analysis of import and export plant products for the presence of quarantine pathogens listed in PQ order 2003
2. Various activities of the PQ station to facilitate the issuance of import permit and Phytosanitary certificate for the plants and plant products

Research Associate

M.S.Swaminathan Research Foundation, Chennai *2010-2012*

"Study on Plant Growth Promoting Bacteria (PGPR) mediated Salt tolerance in Finger Millet"

Research Associate *2009-2010*

Madurai Kamaraj University- Arvind Medical Research Foundation, Madurai

"Study of host responses in Mycotic Keratitis"

Senior Research Fellow

National Institute for Plant Genome Research (NIPGR), New Delhi *2005 - 2007*

"1. Transcript profiling of salt and drought stress in foxtail millet (*Setaria italica* (L.) BEAUV) and cloning-characterization of stress related genes.

2. Molecular Mapping of Tomato Leaf Curl Virus (ToLCV) Resistance Gene(s) in Tomato."

Junior Research Fellow

SPIC Science Foundation, Chennai, INDIA 1999 - 2003

- Served as junior research fellow and carried out studies on banana bunchy top virus
- **Successfully developed and launched a diagnostic kit for early detection of virus in tissue cultured plants and certified plants from tissue culture industry**
- Assisted in performing various molecular techniques including RNA isolation, blotting and hybridizations in a project entitled ": Genetic Transformation of Coffee to alter caffeine levels" funded by Dept. of Biotechnology, Govt. of India

Ph.D (SPIC Science Foundation)

University of Madras

"Detection and Molecular Characterization of Indian isolates of *Banana bunchy top virus* "

Publications

Raganiyanthri.R and **Ananthi.J** Contributed a chapter in a Book entitled "Microbes and Microbial Biotechnology for Green Remediation; Elsevier Publishing (USA) ISBN 9780323904520

Raganiyanthri.R and **Ananthi.J** Contributed a chapter in a Book entitled "Biotechnological Interventions in Current Scientific Scenario: Way Forward to a Healthy Future" Lambert Academic Publishing (USA) ISBN: 978-620- 4-19051-8.

Anandhi J, Vijila C, Viswanath G.S and Lokeswari T.S 2007. Screening banana plants for banana bunchy top virus with primers specific to Indian isolates. Journal of Plant Diseases and Protection 114; (3) 101-107.

Ananthi Jayaraman, Swati Puranik, Neeraj Kumar Rai, Sudhakar Vidapu, Pranav Pankaj Sahu, Charu Lata, Manoj Prasad. cDNA-AFLP Analysis Reveals Differential Gene Expression in Response to Salt Stress in Foxtail Millet (Setaria italica L.). Molecular Biotechnology, Volume 40, Number 3, November 2008, pp. 241-251(11).

Prabavathy,V. R., Jegan, S., **Ananthi Jeyaraman** and Sudha Nair. Genetic diversity of PGPR Pseudomonas associated with Rhizosphere of different agriculture crops cultivated in the saline agriculture ecosystem Proceedings of the 2nd Asian PGPR Conference, Aug 2011.

Research Projects

1. Completed a project funded by SRISTI-BIRAC appreciation award through grass root innovation program in 2016-2017 on Growth retardation in chilli and tomato through *Wrightia tinctoria* and *Oryza sativa*

2. Project sanctioned by Science & Engineering Research Board (SERB) under ECR on Explore and engineer feruloyl esterase from Mangrove for biofuel production for three years in March 2019. (Ref ECR/2017/001344)

3. Project sanctioned by Lady Doak College Management under seed grant on Study on the microbial diversity and its effect on nutritional value of selected fermented food for one year in 20.09.2024

Genbank Submissions

- GenBank KF680266-KF680270
  Diversity of Eubacterial community of Avicennia rhizosphere from Devipattinam
- GenBank JX073569-JX073621
- GenBank JQ965704-JQ965746
- cDNA-AFLP library of salt stressed foxtail millet Identifiers BioSample: SAMN00153592; EST: LIBEST_021994

Presentations

Lavanya.L, Jothika Devi, Jesuita and **Ananthi.J** presented a paper on **Documentation of Florastic Diversity in Arittapatti around The Lotus Pond (Biodiversity Heritage Sites, Madurai)** in National Conference on Ecosystem Restoration on 30.01.2025 at Lady Doak College, Madurai

Nasrin Banu and **Ananthi.J** presented a paper on **"Growth Promotion in Chilli and Tomato through *Wrightia tinctoria* and *Oryza sativa*"** in Indian Plant Science Congress-2019,SRM University,Chennai.

Nasrin Banu and **Ananthi.J** presented a paper on **"A Study on the Effect of Leaf Extract of *Moringa oleifera* in Fenugreek Seeds"**in an International Conference on Emerging Synergies in Agriculture, Food Processing Engineering and Biotechnology February 21-23, 2018(ICAFB - 2018)

Nasrin Banu and **Ananthi.J** presented a paper on **"Phytochemical Analysis of *Wrightia tinctoria* R.Br. by Chromatographic Studies"** in a Symposium on Ayurvedic Medicine and Biology,NRAF,AVN Groups,Madurai.

R.Raganiyanthri, and **Ananthi.J** presented a paper on **Study on heavy metal resistance of *Bacillus thuringiensis* LDC 391 and it's effect on *Amaranthus Gangeticus* in accumulation of lead** in a National Conference on Recent Advances in Biological Research organized by Heredity Life Sciences on 8-10 August 2020

Ananthi.J and Ann Nirmala presented a paper on 'Passion for Science, Engineering, Technology and Maths in Women' in a two days UGC National seminar on "Gender and Social barriers of women scientists and Technocrats- strategies and concerns" at Bharathidasan University organized by Director and Head, Dept of Women studies, on 27th and 28th Feb, 2017

Trainings

Completed six-month certificate program in Bioinformatics At Rajiv Gandhi Centre for Biotechnology in 2022

Participated in 5 days Faculty training programme in Cybersecurity Trends and Challenges in Higher Education Institutions (HEIs) organized by IQAC, in collaboration with IIT-Guwahati from 24th March 2025 to 28th March 2025

Participated in the 8 Day National level Online Faculty Development Program on Research methodology using ChatGPT & AI tools and Funding Opportunities for Research, organised by the PG Department of Computer Applications, The Internal Quality Assurance Cell (IQAC) and Lincoln University College Marian Research Centre (LUC MRC) of Marian College Kuttikanam (Autonomous), in association with The Kerala State Higher Education Council (KSHEC) from 23 November 2023 to 01 December 2023

Participated in a DBT sponsored national workshop on experimental Genomics/ Proteomics and Bioinformatics, organized by Bioinformatics centre, School of biotechnology, Madurai Kamaraj University, INDIA.

Participated in the symposium and presented a paper entitled "Detection and diagnosis of banana bunchy top virus-J.Ananthi, T.S.Lokeswari and George Thomas" in Session-I: Pathogen detection and diagnosis during Dec 2001 held at Indian Institute of Spices Research (ICAR), Calicut, INDIA

Participated in DBT sponsored IIT Madras – Tokyo Tech Workshop on bioinformatics and Large scale analysis of data held on July 15-16, 20011 at IIT Madras, Chennai, India.

Participated in DBT sponsored NGS sequencing and exploring workshop on bioinformatics held on March 10-11th 201 at NIPGR, New Delhi.

Honors

Technology day award to SPIC Science Foundation (Member of the Team) from Ministry of Science & Technology, Govt. of India and Dept. of Biotechnology, Govt. of India for Banana Bunchy top indexing of Tissue cultured plants --As a service. 11thMay 2001.

Acting as **one of the reviewers** (Ref.: Ms. No. ACPP-D-14-01303) for the paper "Isolation and detection of transcript derived fragments (TDFs) of black locust (*Robinia pseudoacacia* L.) to salt stress using cDNA-AFLP" in Acta Physiologiae Plantarum

Awarded **DBT-Research Associateship** in 2010-2012 by Dept of Biochemistry, Indian Institute of Science campus, Bangalore.

Deputed as **Co-coordinator for DBT- BIF Centre** (National Facility), Lady Doak College, Madurai in the year 2019-2020

Translated NPTEL courses cell culture technologies and Bioinformatics algorithms and Applications in Tamil for NPTEL in 2020, 2021, 2024 and 2025