



Dr. Abhini K N

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DOB : 15/11/1980

Qualification

- Ph.D. in Microbiology (Feb 2022)
- Qualified UGC JRF with NET 2014 and GATE 2013
- M.Sc in Microbiology from Mangalore University, Karnataka, June 2004
- B.Sc (Botany, Zoology, Chemistry), Mangalore University 2002
- Certificate course in organic farming, Dept. of Lifelong Learning, MG University, Kottayam 2024

Work experience

Assistant Professor & HOD, Dept. of Microbiology, Malabar College of Commerce & Science, Manoor, Edappal (7th June 2021 to 28th June 2024), Affiliated to University of Calicut.

Assistant Professor at Khansa Women's College for advanced studies, Kumbala, Kasaragod (29th April 2021 to 6th June 2021).

Ph.D. Scholar, dept. of Life Sciences, University of Calicut (20th May 2015 – 28th April 2021), with UGC JRF fellowship, Worked on the topic “Statistical optimization, recombinant production and characterization of L-asparaginase from an endophyte *Acinetobacter baumannii* ZAS1”. Experience in isolation and identification of bacterial as well as fungal endophytes, statistical optimization of media components for bacterial endophytes for the enhanced L-asparaginase production, Cloning, sequencing and in-silico analysis of L-asparaginase gene from endophytes. Expression of recombinant protein, its characterization and in-vitro anticancer analysis through MTT assay against K562 cell lines)

Lecturer at Research World, UGC NET Coaching center, Calicut (15th May 2010 – 22nd May 2014, Experience in teaching for post MSc students).

Junior Research Fellow at IABT, University of agricultural sciences, Dharwad, Karnataka (22nd Jan 2008 – 3rd April 2009, experienced in molecular cloning chitinase gene and its transformation into tomato plants. Expertised in primer designing, PCR based molecular cloning, plant tissue culture etc.).

Microbiologist & Lab supervisor at Balan Natural Foods Pvt Ltd, Bangalore (9th Jun 2005 – 19th Jan 2008, experienced in QC for fruit juices in tetrapack as well as PET bottles. Also worked in Research and Development section)

Lab technician at Coffee research substation, coffee board, Chettalli, Kodagu, Karnataka (Jul 2004 – May 2005, worked in Farmers participated project. Experienced in bacterial and fungal culture maintenance and mass cultivation.

Work skills

- Leadership,
- Team player
- Teaching
- Molecular cloning, cell culture, plant tissue culture
- Microbial culture maintenance
- Identification of bacterial and fungal cultures
- Statistical optimization, *In-silico* analysis

Publication:

- Published a research paper entitled “Response surface methodological optimization of L-asparaginase production from the medicinal plant endophyte *Acinetobacter baumannii* ZAS1” in journal of genetic engineering and biotechnology. Feb 2022.
- Published a review paper entitled “Bile salt hydrolase, a potent enzyme capable of

removing cholesterol present in bacteria: A review” in Bioscience Biotechnology Research Communications. ISSN No: 2321-4007. Jan-March 2019.

- Published a Research Paper entitled “Isolation Screening and Identification of Bacterial Endophytes from Medicinal Plants as a potential source of L-Asparaginase Enzyme” in Journal of Chemical and Pharmaceutical Sciences. ISSN NO: 2349-8552. Jan-March 2018.
- Published a Research Paper on the topic “Isolation and Molecular differentiation of fungal endophytes from medicinal plants as a source of L-asparaginase Enzyme” in Indo American Journal of Pharmaceutical Research. ISSN NO: 2231-6876. Nov 2016.

Training/Workshop

- Active member (Secretary) in Organizing an one day National Seminar on “Novel Challenges and emerging trends in biological Sciences” at Malabar College of Commerce & Science, Manoor, jointly organized by the Dept of Microbiology & Biochemistry on 7th Dec 2023.
- Attended an 8-day faculty development programme on FYUGP Curriculum and OBE (online), conducted by Farook College, Calicut from 2/9/24 onwards.
- Attended hands on Training workshop on Basic cell culture technology conducted by NCCS cell repository, Pune. (29th Oct 2018 – 1st Nov 2018)
- Attended hands on Training for Biogas production from Domestic waste conducted by Dept. of Life Sciences, University of Calicut

Seminars / Conferences Attended / Papers presented:

Poster Presentation:

- ✓ “Isolation and screening of potassium solubilizing bacteria: An approach to sustainable food production. National Seminar on Contemporary challenges in processing , quality and safety of food, at Kelappaji College of Agricultural engineering & technology, Tavanur.
- ✓ “L-Asparaginase enzyme production by *Bacillus subtilis*: Optimization through Response Surface Methodology. International Conference on “Trends in Biochemical and

Biomedical Research: Advances and Challenges, at BHU, Varanasi.

- ✓ “ Production of antimicrobial compounds from *Deinococcus* sp. ” In IFCON, Organized by Association of Food Scientists & Technologists, CFTRI, Mysore, India from 5-8 Dec. 2003.
- ✓ “ Preliminary investigation of extracellular antimicrobial compounds from *Deinococcus* sp.” In „mt-2004“ Organized by Dr.G. R. Damodaran college of science, Coimbatore, Tamilnadu. From 12-13 Feb. 2004.
- ✓ “ Effect of fungicides on growth and colonization of VAM” In Swadeshi Science Congress, Organized by MSSRF Kalpetta, Kerala.

Oral Presentation:

- “L-Asparaginase enzyme production by *Acinetobacter baumannii*: Optimization through response surface methodology”. In INCD 2017 at Goa, 1-3rdsept. 2017. (**Best oral presentation award**)
- “ Isolation and characterization of medicinal plant endophytes for the production of L-Asparaginase Enzyme” in Frontiers in Genetics And Genomics, Dept. of Genomic Sciences, Central University of Kerala. 7 – 8th April 2016.
- “ Isolation and molecular characterization of Endophytes from *Annona muricata* as a potent source of L-Asparaginase an Antileukemic enzyme” in International Conference on Nutraceuticals and Chronic diseases (INCD 2016) at Kochi, Kerala. 9 – 11th September 2016
- “ Isolation and molecular characterization of Medicinal plant endophytes for the production of L-Asparaginase Enzyme” at World congress on Drug discovery and development, Bangalore during 23 -25 Nov 2016.
- Demonstration on “World of Microbes” at Kerala State Children’s Science Congress, University of Calicut. 20 – 22nd April 2017.

Project Guidance:

Guided 31 students (Group project), as part of the fulfillment of BSc degree.

Computer Proficiency:

Working knowledge of MS office & Internet

Kodakkad

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