



Dr. Gauri Phadke

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Professional Summary

Assistant Professor in Microbiology with 10 years of experience and working in the capacity of Head of the department since July 2008. Have PhD Degree in Botany, equivalent to Microbiology.

I am proficient at building and maintaining professional relationships.

Education

Sr	Degree	Specialization	Year of completion	University	Class
1	Doctorate	Botany (Equivalent to Microbiology)	2016	University of Mumbai	-
2	M. Sc.	Microbiology	2007	Goa University	First Class
3	B. Sc.	Microbiology	2005	University of Mumbai	First Class

Teaching Experience

Assistant Professor, Microbiology, DUBSS College, Dapoli, affiliated to University of Mumbai, 2008 - 2018

- Head of the department, Microbiology
- Conducting lectures of under graduate students
- Guest faculty for post graduate students of Zoology, Chemistry and Botany etc.
- Preparation of experimental procedure, setup of experimental apparatus, providing introduction of the experiment to students, responding to their questions they encountered in the experiment, and grading their reports.
- Students rated my lecture 3.7 out of 4 point scale.

Research Experience

Research Assistant, ICAR, Goa, 2007

Dissertation Title – **Suppression of *Ralstonia Solanacearum* (Smith) by Antagonistic Bacteria: Possible Mechanisms of Pathogen Inhibition and Plant Growth Promotion**

- Isolation and screening of PGPR
- Development of bio-fertilizer inoculums
- Glass house and field trials

PhD Research, University of Mumbai, 2008 – 2016

Dissertation Title - **Survey of arbuscular Mycorrhizal fungi and their application as a bio-fertilizer in *Mangifera Indica***

- Collection of rhizosphere soil samples from 65 Mango plants from 16 sites in Konkan belt during pre-Monsoon and post-Monsoon seasons
- Isolation and identification of AM species
- Assessment of AM colonization in root samples
- *In-vivo* cultivation of AM species
- Development of inoculums
- Conducting a nursery experiment using Mango as a test crop for confirming bio-fertilizer properties of AM

Other research works, University of Mumbai, 2008 - 2018

- Assessment of antimicrobial properties of newly synthesized chemicals (drugs)
- Amrut-Pani: bacteriology and field applications
- Bio-Remediation of high fluoride levels in ground water using immobilized bacterial cells
- Isolation of common dandruff-causing agent and screening of various herbs for its control

Research Publications

1. Paper publication in International journal on the topic '**Rhizosphere and endophytic bacteria for the suppression of eggplant wilt caused by *Ralstonia solanacearum***'
2. Paper publication in National journal on the topic '**Comparative study on influence of Arbuscular Mycorrhizal Inoculum and Chemical fertilizer on vegetative growth of Mango seedlings.**'

Conferences, Seminars and Workshops

1. International Conference

- Paper presented in International Conference organized by Loknete Gopinathji Munde College, Mandangad in collaboration with M. G. E. W. Society's Centre for Humanities & Culture Studies, Kalyan.
Topic – **Solvent Free Green Synthesis of Schiff Bases and Studies of their Anti Microbial Activities**

2. National conferences

- Paper presented in National Conference organized by Mycological Society of India at Chennai.
Topic – **Survey of Arbuscular Mycorrhizal fungi in *Mangifera Indica***
- Paper presented in National Conference organized by IBS
Topic – **Mycoflora of cellulosic articles of common use: A Survey**
- Paper presented in U.G.C. sponsored National Conference on 'Herbal and Traditional Medicines' organized by Dapoli Urban Bank /senior Science College, Dapoli, Ratnagiri on 6th and 7th February 2009.

3. National Seminars

- Paper presented in National Seminar organized by MSI Mumbai unit at Bhavan's college, Mumbai
Topic – **Microflora of commonly used articles and hazards to human health**
- Paper presented in National seminar held on 'Recent Development in Chemical and Material Science' by Dapoli Urban Bank Senior Science College, Dapoli, Ratnagiri and National Centre for Nanoscience and Nanotechnology, University of Mumbai, (Maharashtra) on 5th and 6th February 2016.
Topic – **Influence of soil physio-chemical factors on density of Arbuscular Mycorrhizal (AM) fungi.**
- Attended National Seminar on 'Fungal Biodiversity and Bioprospecting in the Age of Global Warming' and 56th Annual meeting of the Mycological Society of India (MSI) organized by UGC-SAP Department of Botany, Goa University, Goa on 29th – 30th October 2009.

4. State/University level Academics/Administration oriented seminars

- Participated in workshop on 'Revised Syllabus on Microbiology for S. Y. B.Sc.' held by K. C. College, Mumbai in association with Board of Studies, Microbiology, University of Mumbai on 13th July 2009.

- Participated in workshop on 'Revised T. Y. B.Sc. University Syllabus in Microbiology' held by Wilson College, Mumbai in association with Board of Studies, Microbiology, University of Mumbai on 29th April 2010.
- Participated in a workshop on 'Credit based Semester and Grading System for F. Y. B.Sc. Microbiology Syllabus' organized by Bhavan's College, Mumbai in association with Board of Studies, Microbiology, University of Mumbai on 24th June 2011
- Participated in U.G.C. sponsored one day workshop on 'NAAC Reaccreditation – Peer Team Visit Methodology and Preparation' organized by Internal Quality Assurance Cell (IQAC) of Dapoli Urban Bank Senior Science College, Dapoli, on 27th Sept 2011.
- Participated in a workshop on 'Credit based Semester and Grading System for S. Y. B.Sc. Microbiology Syllabus' organized by C.H.M. College, Ulhasnagar in association with Board of Studies, Microbiology, University of Mumbai on 18th June 2012.
- Participated in 'T. Y. B.Sc. Syllabus Revision' workshop held at Department of Microbiology, Wilson College in association with Board of Studies, Microbiology, University of Mumbai on 19th June 2016.
- Participated in two days U.G.C. sponsored seminar on 'Preparation of Competitive Examinations' organized by Career and Counseling Cell on 20th and 21st February 2015.
- Attended State level workshop on 'Rashtriya Ucchatar Shiksha Abhiyan (RUSA)' organized by Dapoli Urban Bank Senior Science College, Dapoli and University of Mumbai College Principal's Association on 1^{2th} Dec 2015.
- Participated in two day zonal workshop on 'Sexual harassment of women at workplace (Prevention, Prohibition and Redressal), Act 2013 and related issues', jointly organized by the Women Development Cell, University of Mumbai and G. B. तथा Tatyasaheb Khare Commerce, Parvatibai Gurupad Dhere Arts and Mahesh Janardan Bhosale Science College, Guhagar, Ratnagiri on November 30th and December 1st 2015.
- Attended a workshop on 'Pradhyapak Kshamata Vikas' organized by Rambhau Mhalgi Prabodhini on 26th November 2016.

Highlights in career

1. Syllabus framing for self-financed add-on course in Food Microbiology
2. Member of Examination Committee (since 2012-13)
3. Member of IQAC (since 2012-13)
4. Convener of Cultural Committee(from 2016-17)
5. Convener of Nature club (2012-15)
6. Member of CO- and Extra Curricular Committees:
 - Nature club (2009-12and 2015 onwards)
 - NSS (2008-09);
 - Sports committee (2015-16)
 - Science Association (since 2012-13);
 - Magazine committee (Since 2009);
 - WDC (since 2014);
 - Canteen Committee (from 2017-18);
 - Library Advisory Committee (since 2009)

Areas of Interest

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| <ul style="list-style-type: none">• Research Interest<ul style="list-style-type: none">- Bio-Remediation- Nano technology- Clinical Pathology- Bio –Fertilizers- Bacterial taxonomy | <ul style="list-style-type: none">• Teaching Interests<ul style="list-style-type: none">- Molecular Biology- Genetics- Biochemistry- Immunology- Medical Microbiology |
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Other Details

Date of Birth – 07th October 1984

Languages known – English, Hindi, Marathi