



Curriculum Vitae

Summary:

With 5+ years of research experience in the field of Biotechnology/Bioinformatics specialization (Redox regulation and Plant Defense Sciences). It includes research in Recombinant DNA technology, Plant tissue culture, Molecular Biology, Plant Pathology, and Gene cloning and sequencing, along with 10 months of research in the Hepatitis E virus with the production of monoclonal and polyclonal antibodies in mice. 6 months of research in the field of Bioinformatics in Alzheimer's disease. Worked as Academic support specialist and online tutor for post-graduate level. Recent experience as an academic counselor for foreign languages and research writer.

Skill Sets:

Plant tissue culture.

Production of transgenic plants in *Arabidopsis thaliana*
Plants/virus/pest handling
Handling *Arabidopsis thaliana*, *Nicotiana benthamiana*, *Solanum lycopersicum*
Handling fungus *Trichoderma harzianum* and *Botrytis cinerea*.
Handling Pests *Pieris rapae*.
Plant tissue culture and Green House

Expertise in Molecular biology techniques.

Gene cloning (Traditional cloning, Gateway cloning), gene expression RT-PCR, Q-PCR. Histochemical analysis, agrobacterium transformation.
Isolation of plasmid DNA from bacterial culture. Recombinant protein expression, plant protein expression and extraction, protein purification Yeast two-hybrid assay.
SDS-PAGE protein profile, western blot, biotin switch assay, mass spectrometry, ELISA.
Handling mice, polyclonal antibody production.
Production of bio-fertilizers, bio-pesticides.
Handling mammalian cell line.

Computer skills

MS Office, Adobe photoshop, adequate with CRM/LMS software, Familiar with PDB viewer, NCBI, Homology modelling, Expasy, and cuckoo.org

Education:

Degree	Name of the University	Class	Year
Ph.D. (Biotechnology/Molecular Plant Sciences)	University of Edinburgh, UK	Thesis viva voice	2016
M.Sc. (Biotechnology)	Shivaji University, Kolhapur	First class	2006
B. Sc. (Zoology)	Shivaji University, Kolhapur	Distinction	2003
HSC Pune Board	Sangameshwar College, Solapur	Second class	2000
SSC Pune Board	Little Flower Convent High School, Solapur	Second class	1998

WORKSHOPS / TRAINING PROGRAMS /CONFERENCE ATTENDED:

No	Workshops / Training Program	Sponsoring agency	Place and year
1.	Workshop on Bioinformatics and software development	University of Edinburgh, UK	University of Edinburgh, UK, 2011
2.	Training in Mass spectrometry	University of Edinburgh, UK	University of Edinburgh, UK 2012
3.	Training course in plant tissue culture, Biofertilizers, and Biopesticides	Mitcon Consultancy, Pune	Mitcon Consultancy, Pune 2006
4.	Entrepreneur development program	Mitcon consultancy, DIC Solapur	Mitcon Consultancy, Solapur, 2009
5.	Conducted Workshop of Biotechnology Career Prospects for CSIR students	BioTecNika Info Labs Bangalore	BioTecNika Info Labs Bangalore 2019

Work Experience:

Research writer: Worked as a research writer for IPS, Meerut Sep 2022-Aug 2023.

Academic Counsellor: Worked as an Academic Counsellor and Online tutor for NEET Biology at The Universal Language Hub Nov 2020 Aug-2022

Academic Support Specialist: Worked as an Academic support specialist for Biotechnika Info Lab, Bangalore for Sep 2019 - June 2020

Postdoctoral Research: Worked as a postdoctoral research fellow on "To elucidate the role of redox signaling in Jasmonic acid-mediated plant immune response in *Solanum lycopersicum*" July 2018 to May 2019. PDF fellowship from Science Engineering Research Board SERB, Govt of India.

Research Associate: Worked as a Research Associate to Investigate the role of papain-like cysteine protease in Hepatitis E virus replication at the National Institute of Virology, Pune, India. March 2016 - Dec 2016.

Post Graduate Demonstrator: Supervised Undergraduate Student for a research project in the Department of Biological Science Department, College of Science and Engineering, University of Edinburgh, UK

Project Work: Conducted research work on the degradation of pesticides Endosulphan by fungus *Trichoderma harzianum* in M.Sc

Position Held:

1. Member of various program committees of International conference/Workshop organized by the Department of Plant Biological Sciences, University of Edinburgh, United Kingdom.
2. Member of program committees of National Science Day University of Edinburgh, United Kingdom
3. Reviewer of various International and National Journals.
4. Worked as Program officer for DNA club Project, Department of Science and Technology, India at Bharati Vidyapeeth Katraj, Pune in 2008.
5. Attended International conference on Nitric Oxide at the University of Edinburgh, United Kingdom, 2012.
6. Designed certificate courses for Clinical Biotechnology, Cancer Biology and Bioinformatics for Biotechnika Info Labs, Bangalore, 2019

Achievement and Honors:

1. Stood 2nd in B.Sc Zoology at Sangameshwar College, Solapur 2003
2. National Awardee of National Overseas Scholarship, 2010, Ministry of Social Justice and Empowerment
3. National Awardee of Science and Engineering Research Board for National Postdoctoral Research, 2017 funded by the Department of Science and Technology.

Publications:

Loake GJ, Ayyar P and Howat S. (2017). Regulators of growth: Jasmonates. Encyclopedia of Applied Plant Sciences, Waltham, MA, 430–436.

Ayyar P, Kamble S (2018) *Trichoderma harzianum*: An Effective and Ecofriendly Biocontrol Agent for Degradation of Pesticide Endosulphan IJCRT Volume 6, Issue 2 April 2018 | ISSN: 2320-2882

Personal profile

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