

Mrs. Bhagyashri Somani

Present position

- Assistant Professor in Botany

Contact Details



020-67656066



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Work Experience

- Since Teaching: 17years
- Research/Industrial: 2years

Personal Profile

Name:	Bhagyashri Omprakash Somani
Present Address:	A-305, Rahul Arcus Society, Baner, Pune 45.
Permanent Address:	S.No.22, Flat No. 13, Dhanashree A Hsg. Soc., Balajinagar, Pune 43.
Date of Birth:	13-05-1986
Sex:	Female.
Mobile:	8600113045
MaritalStatus:	Married
E-Mail:	bhagya.somani@gmail.com
Language Fluency:	Marathi, Hindi and English.
Occupation:	Assistant Professor.

Course(s) Taught

1. Plant Biotechnology
2. Molecular Biology
3. Cell Biology
4. Techniques in Biology
5. Industrial Botany

Field of Specialization/Areas of Interests

- Tissue Engineering
- Plant Tissue Culture

Pursuing PhD entitled

“Studies on development of Hydrogel-based Formulations Loaded with Medicinal Plant Extracts and Nanoparticles for Diabetic Wound Healing”

➤ Isolation of bioactive secondary metabolites of Phytochemicals (Medicinal plants) and its

1 | P Evaluation under *in vitro* and *in vivo* conditions.

- Study of antimicrobial, anti-inflammatory, anticancer properties of medicinal plant extracts.
- Synthesis and characterization of nanoparticles using medicinal plant extracts
- Development of hydrogel and other wound dressings by incorporating medicinal plant extracts and nanoparticles for wound healing
- *In vivo* and *in vitro* analysis of hydrogels to check efficacy in wound healing.

Education

- **NET-LS (December 2008, June 2009 with AIR 76)**
- **Master of Science Botany: 2008 (University of Pune)**
- **Bachelor of Science Botany: 2006 (MES Abasaheb Garware College, University of Pune)**

Fellowship/Awards/ Certifications/Achievements/Recognitions

1. SPPU recognized UG teacher

Member of College Committees/ Professional Bodies and Others

College Level
• Member of BoS of Department of Botany since 2016 Actively participating in PG curriculum framing
• OBE Co-ordinator at Fergusson College
• Placement Co-ordinator for MSc Botany Course
• Feedback Co-ordinator for MSc Botany Course
• OBE Co-ordinator for MSc Botany Course
• Placement Co-ordinator for MSc Botany Course
• On-Job Training Co-ordinator for MSc Botany Course

Employment History

- 1) **Organization** : Deccan Education Society Fergusson College (Autonomous), Pune
Role : Assistant Professor in Botany
Duration : Till date
- 2) **Organization** : Modern Education Society Nowrosjee Wadia College
Role : Assistant Professor in Botany
Duration : July 2008 to April 2010

Research Projects

Title of the Project	Name of Funding Agency	Amount (Rs)	Duration (Year) (From To)	Type (Minor/Major)	Outcome
Preclinical Assessment of the efficacy of polyherbal extract infused hydrogel for treatment of wounds	DES Fergusson College (Autonomous), Pune seed money projects 2023-24	1,00,000/-	2023-24	Minor	Knowledge dissemination
Development of Biopolymer based hydrogel nanocomposite systems for biomedical applications	DES Fergusson College (Autonomous), Pune seed money projects 2023-24	85000/-	2023-24	Minor	Knowledge dissemination
Study of effect of salinity stress on nutritional values of fruits of <i>Lycopersicon esculentum</i> Mill. cv Abhinav	DES Fergusson College (Autonomous), Pune College with Potential of Excellence Scheme	20000/-	2011-12	Minor	Knowledge dissemination
Study of effect of salinity stress on physiology of <i>Lycopersicon esculentum</i> Mill. cv Abhinav	DES Fergusson College (Autonomous), Pune College with Potential of Excellence Scheme	20000/-	2011-12	Minor	Knowledge dissemination

Research Publications in National and International Journals

1. Varghese R, Dalvi YB, Lochana P, Achintha S, **Somani BO**, Karnaver P, Thomas NG, Rupesh S, Varghese N, Jayachandran VP. Physiochemical and Biomedical Properties of Hydrogels: From Fundamentals to Applications. Hydrogels and Nanogels-Applications in Medicine. 2024 Jan 5.
2. Contributed three book chapters in “Reference Book on Life Sciences” for UGC CSIR NET/SET/SLET, published by Nirali Publication in 2024

Participation in Conferences/Seminars/Symposia/Workshop:

1. Biomedical Applications of polyherbal extract infused chitosan hydrogel. Bhagyashri Somani*, Kishor Bhosale, Yogesh Dalvi, Bharat Shinde at 12th International Conference “Bioradiance-2024:Defeat Superbugs, Preserve Future” 16th- 18th May 2024.
2. Phytochemical Screening and Study of Medicinal Properties of Licorice. Bhagyashri Somani, Shardul Londhe at International Conference on “Exploring Innovations in Life Sciences 2024” on 23rd March 2024.
3. Biomedical Applications of Polyherbal extract and Silver Nanoparticles Incorporated in Sodium Alginate Hydrogels. Bhagyashri Somani*, Kishor Bhosale*, Yogesh Dalvi, Shraddha Kapadnis, BharatShinde, Archana Tanwarat the “International Conference on Advanced Functional Materials and Devices (AFMD2024)” 26th- 29th February 2024.
4. Chitosan Hydrogels Infused with Polyherbal Extracts for Tissue Engineering. Bhagyashri Somani*, Kishor Bhosale*, Yogesh Dalvi, Aditi Joshi, BharatShinde, Archana Tanwarat the “International Conference on Advanced Functional Materials and Devices (AFMD2024)” on 26th- 29th February 2024.

5. Phytochemical Screening and Study of Medicinal Properties of Jasmin. Bhagyashri Somani*, Archana Naik, Shardul Londhe in National Conference on Plant “Omics”: Recent Trends and Applications on 21st - 22nd February 2024.
6. Phytotherapeutic Hydrogels for Diabetic Foot Ulcer: In Vitro and In Vivo Investigation. Bhagyashri Somani*, Sunita Sable, Olyvia Thokchom, Yogesh Dalvi, Namitha Vijay, Nikhil Krishnan at International Conference 2023 “Emerging Trends in Plant Science Research” 6th -7th March 2023.
7. Development of Sodium Alginate-based Hydrogels Integrated with Polyherbal Extract for Diabetic Wound Healing. Bhagyashri Somani*, Olyvia Thokchom, Sunita Sable, Yogesh Dalvi, Unnikrishanan BS, Namitha Vijay, Nikhil Krishnan at International Conference 2023 “Emerging Trends in Plant Science Research” 6th -7th March 2023.

Events Organized/Coordinated:

Sr. No	Name of the Event	Name of organizing Institute/ College/ University	Nature of contribution	Dates
1	One Day seminar in Recent trends in Mycology	Department of Botany, Fergusson College	Participation in organization	2016
2	One Day seminar in Advances in Plant Biotechnology	Department of Botany, Fergusson College	Participated in organization	22nd August 2016
3	One Day workshop in Current trends in Plant Biotechnology	Department of Botany, Fergusson college	Participation in organization	2017
4	One Day Workshop on NET- SET Examination Preparation 15th Sept 2017	Department of Botany & Biochemistry, Fergusson College	Co-ordinator	15th Sept. 2017
5	Two Days Workshop on “Hands on Training of Electrophoretic techniques” in 2018	Department of Botany, Fergusson College	Co-ordinator	12nd and 13th January 2018
6	National Webinar on Trends in Algal Research	Botany Department Fergusson College	Team Member	10 March 2022
7	One Day Workshop on NET- SET Examination Preparation	Department of Botany & Biochemistry Fergusson College	Co-ordinator	12th March 2022
8	One Day Workshop on “Research Publication and It’s Ethics” on 29 April 2022	Department of Botany, Fergusson College (Autonomous), Pune	Team Member	29th April 2022

Additional Information

M.Sc. Students Guided for project: 18