FACULTY PROFILE



NAME	**:**	**Dr. Navya, H. M.**
Designation	:	Assistant Professor
Department	:	Biotechnology
Qualification	:	M.Sc., M.Phil., Ph.D.
Date of Joining	:	15-07-2019
Areas of Specialization	:	Plant pathology; plant protection; aflatoxin management; bio-fertilizer; Postharvest management and Toxicology.
E mail	:	navyahm@davangereuniversity.ac.in toxincontrol@gmail.com
Contact Number	:	8971279925

Academic Qualification

Degree	University	Specialization/ Subjects
PhD.	University of Mysore	Applied Botany
M.Phil.	University of Mysore	Seed Technology
PG	Bangalore University	Botany
UG	Bangalore University	Chemistry, Botany, Zoology

Professional Experience

Sl. No	Designation	Institution/University	UG/PG	From	To	Total Experience (Years & Months)
1	Assistant Professor	Department of Biotechnology Davangere University, Davangere, Karnataka, India	PG	15-07-2019	Till date	

2	Post-Doctoral Fellow under National Post Doctoral Fellowship (N-PDF) funded by DST-SERB, India.	CSIR-CFTRI, Mysore	--	March 2016	March 2018	2 Y
3	Senior Research Fellow under DBT funded major research project at Department of Biotechnology, University of Mysore	University of Mysore	--	November 2009	June 2011	1Y 6M

Research Profile	
Areas of Research	Biotechnology
Keywords	Plant pathology; Plant protection; Bio-fertilizer; Postharvest management
ORCID ID	http://orcid.org/0000-0002 -1090-7402
Scopus ID	https://www.scopus.com/authid/detail.uri?authorId=57220188584
Web of Science ID	2352-2022
Vidwan ID	238117
Google Scholar	https://scholar.google.co.in/citations?user=gIRg9yAAAAAJ&hl=en
ResearchGate	https://www.researchgate.net/profile/Navya-H-M

Research Publications:

a) International/National Journals

1. Kumara B P, **Navya H M,** Unnathi G S, Prabhurajeshwar Chidre (2026). Assessment of Probiotic Properties and Bioactive Compound Production by Lactic Acid Bacteria Isolated from Home-Made Curd Samples of Different Sheep Breeds. Journal of pure and applied Microbiology (IF-1.1, Q3) (Accepted)
2. Tulasabai Chavhan, **Navya H M**, Kumara B P, Prabhurajeswar Chidre (2026). Extraction and Biochemical Characterization of Exo-polysaccharides Isolated from Lactococcus Lacties from Fermented Dairy Products. International of Aquatic Research and Environmental Studies (IF-, Q2)
3. Unnathi G.S., **Navya H.M.*,** Kumara B.P. and Prabhurajeshwar Chidre* (2026). A Review on Exploration of Postbiotics as Health Promoting Metabolites for Biotherapeutic Applications. Research Journal of Biotechnology. (**IF- *0.233*, Q4**)

4.	Prabhurajeshwar Chidre, Varun Shankarappa, Kumara Bosepalaiah, Chandranaik Dharmanaik, and **Navya Hulikunte Mallikarjunaiah** (2026). Bio-fabrication of sustainable MnO2 nanoparticles using *Basella alba* L. aqueous extract, its physicochemical characterization and *in-vitro* biological explorations. Discover Green Chemistry (**Springer Nature**)
5.	Varun Shankarappa, Prabhurajeshwar Chidre, Ajaykumar oli, **Navya Hulikunte Mallikarjunaiah** (2026). Toxicological implications and human health risk assessment of heavy metal contaminated green leafy vegetables and their cultivated soil. Toxicology and Industrial Health **(Sage, IF-1.6, Q3)**
6.	Shettar, D. S., Prabhurajeshwar, C., Varun, S., & **Navya, H. M**. (2026). Isolation and Characterization of Rhizosphere-Inhabiting Microorganisms from Solanaceous Crops and Their Evaluation for Antimicrobial and Antibiotic Sensitivity. *Agricultural Science Digest - A Research Journal*
7.	Tulasabai Chavhan, **Navya H M,** Kumara B P, Prabhurajeswar Chidre (2026). *In-vitro* Screening and Evaluation of Probiotic Potentials of Lactic acid Bacteria Isolated from Dairy Products. Asian Journal of Dairy and Food research **(IF-1.12, Q3)**
8.	**Navya H M,** Varun S, Nagesh Gunavanthrao Yernale, Prabhurajeshwar Chidre* (2025). Harnessing the Pharmacological Activities (Invitro and Insilico) of Schefflera venulosa and identification of potent phytochemicals using GC-MS, Journal of Herbs Spices & Medicinal Plants. (**Taylor and Francis, IF 2.5, Q2**)
9.	**Navya H M,** Prabhurajeshwar Chidre *, Nagesh Gunavanthrao Yernale, Mangalagouda S,Basavarajaiah S M (2025). Eco-friendly synthesis of iron oxide nanoparticles (IO–NPs) from aqueous extract of *Cissus quadrangularis L.* (Veld grape): Characterization and pharmaceutical evaluation. Journal of Molecular Structure, Vol. 1332**.** 141685
10	Nagesh Gunavathrao Yernale, Basavarajaiah S M, Oruganti Anjaneyalu, N Basamma, N D Sudharani, P Kaveri, Prashantha Karunakar, Prabhurajeshwar Chidre *, **H M Navya** (2025). Harnessing the therapeutic potential of macromolecular metal (II) complexes derived from quinoline and thiazole core ligands: synthesis, spectral analysis, in vitro and *in silico* biological evaluation. Journal of Molecular Structure, Vol 1338 (**Elsevier, IF 4.7, Q2**).
11	Navya H M and Prabhurajeshwar (2024). Exploring inhibitory potential of α–Glucosidase and α–Amylase activity and cytotoxic effect of Glycyrrhiza glabra traditionally used in Ayurveda for Diabetes management. African Journal of Biological Sciences; 6(5) (2024). 6150-6165 ISSN: 2663-2187
12	Gundappa, M., Prabhurajeshwar, C., Ahmed, S., **Navya, H.M**., Vijayasarathy, M. and Velayuthaprabhu, S., (2024). Microbiological Evaluation and Antibiotic Susceptibility Pattern of Bacterial Isolates Associated with Some Contaminated Edible Fruits and Vegetables. Indian Journal of Agricultural Research, 58(2), p.227.
13	**Navya, H.,** Waghmare, T. and Chavan, A., 2024. Exploration of antibacterial and antioxidant potential of Eclipta prostrata leaf extract. *Agric. Sci. Dig.*, *44*, pp.1-6
14	Srividya, D., Seema, J.P. and **Navya, H.M.,** (2023). Microbial metallonanoparticles—an alternative to traditional nanoparticle synthesis. Environmental Applications of Microbial Nanotechnology, pp.149-166.
15	Prabhurajeshwar and **Navya H M.** (2023) Bio-agents for the management of blast disease of finger millet (Eleusine coracana): A brief review. Agricultural reviews

	DOI:10.108805/ag.R-2633
16	Prabhurajeshwar C, **Navya HM,** Sarfaraz Ahmed, Madhuri Biradar, R. Chandrakanth Kelmani, Nawaz Umar (2022). A Study on Seroprevalence among Clinically Suspected Dengue Viral Infection using IgM Antibody Capture ELISA for the Early Diagnosis. International Journal of Pharmaceutical Sciences and Clinical Research 2021; 1(4):390-395
17	Prabhurajeshwar C, Ashajyothi Chavan, **Navya HM** and Kelmani Chandrakanth R (2022). Nanomaterials: A Potential Broad-Spectrum Antimicrobial Agent. Journal of Materials Science and Nanomaterials. 6(1): 1-5.
18	**Navya, H.M.,** 2022. Chapter-5 Natural Management Strategy through the Utilization of Bacopa monnieri Linn. Extracts and Its Bio-Molecules against Phytopathogens: A Brief Review. Research and Review, 21, p.83.
19	Prabhurajeshwar**, Navya, H.M**., Uppin, J., Patel, S.J. and Kelmani, C., 2022. Screening of Novel Metabolites from Actinobacteria. In *Actinobacteria: Ecology, Diversity, Classification and Extensive Applications* (pp. 159-179). Singapore: Springer Nature Singapore.
20	**H. M. Navya,** J. Naveen, P. Hariprasad, G Hithamani, Prabhurajeshwar**,** S. R. Niranjana **(2021).** Seed-Phytopriming with *Decalepis hamiltonii* extracts improves plant health by suppressing *Aspergillus flavus* infection in groundnut. Journal of Biologically Active Products from Nature; 11, 70-81.
21	Naveen, J., **Navya, H.M**., Hithamani, G., Hariprasad, P. and Niranjana, S.R., 2021. Pathological, biochemical and molecular variability of Colletotrichum truncatum incitant of anthracnose disease in chilli (Capsicum annuum L.). Microbial pathogenesis, 152, p.104611.
22	Basutkar, M.R. and **Navya, H.M.,** (2021). Chapter-1 Bio-Production of Biodiesel using Different Strains of Microorganisms. Natural Resource Management and Environmental Security, 17, p.1.
23	Jayapala, **N., Hulikunte Mallikarjunaiah**, N., Puttaswamy, H., Gavirangappa, H. and Siddapura Ramachandrappa, N., (2020). Acibenzolar-S-methyl and β-amino butyric acid-induced upregulation of biochemical defense against Colletotrichum capsici infection in chilli (Capsicum annuum). *Archives of Phytopathology and Plant Protection*, *53*(3-4), pp.141-161.
24	Jayapala, **N., Mallikarjunaiah**, N.H., Puttaswamy, H., Gavirangappa, H. and Ramachandrappa, N.S., 2019. Rhizobacteria Bacillus spp. induce resistance against anthracnose disease in chili (Capsicum annuum L.) through activating host defense response. Egyptian Journal of Biological Pest Control, 29(1), pp.1-9.
25	Naveen, J., **Navya H.M.,** Hariprasad, P., Hithamani, G., Niranjana S.R. (2019). Rhizobacteria *Bacillus* spp. induce resistance against anthracnose disease in chili (Capsicum annuum L.) through activating host defense response. Egyptian Journal of Biological Pest Control.1-9.
26	Naveen, J, Navya H. M., Hithamani, G., Niranjana, S. R., Hariprasad, P (2018). First report of *Diaphorthe masirevicii* causing leaf blight of *Gloriosa superba* in India. New Disease Reports. 37: 2018. 13.
27	**Navya, H. M.,** Naveen, J., Hariprasad, P. and Niranjana, S. R. (2017). Characterization of non-aflatoxigenic strains of *Aspergillus flavus* as potential biocontrol agent for the management of aflatoxin contamination in groundnut. Microbial Pathogenesis**.**102: 2017. 21-28.

28	**Navya, H. M.,** Naveen, J., Hariprasad, P. and Niranjana, S. R. (2015). Beneficial rhizospheric microorganisms mediated plant growth promotion and suppression of aflatoxigenic fungal and aflatoxin contamination in groundnut seeds. Annals of Applied Biology. 167: 2015. 225-235.
29	**Navya, H. M.,** Naveen, J., Hariprasad, P., Niranjana, S. R. (2014). Morphological, physiological and biochemical characterization of *Aspergillus flavus* isolates from groundnut (*Arachis hypogaea* L.). International Journal of Recent Scientific Research. 5(7): 2014. 1286-1292.
30	Naveen, J., Hariprasad, P., **Navya, H. M.** and Niranjana, S. R. (2013). Induction of resistance in chilli seedlings against anthracnose disease by crude cell wall elicitors from *Colletotrichum capsici* isolates UOM-18. International Journal of Pharma and Bioscience 4: 2013. 304-14.
31	**Navya, H. M.,** Hariprasad, P., Naveen, J., Chandranayaka, S. and Niranjana, S. R. (2013). Natural occurrence of aflatoxin and aflatoxigenic and non-aflatoxigenic *Aspergillus flavus* in groundnut seeds across India. African Journal of Biotechnology. 12: 2013. 2587-2597.
32	Hariprasad, P., **Navya, H. M.,** Chandranayak, S. and Niranjana, S. R. (2009). Advantage of using PSIRB over PSRB and IRB to improve plant health of tomato. Biological Control. 50 (3). 2009. 307-316.

Research Guidance

Sl. No	Name of the Scholar	University	Registration (DD/MM/YYYY)	Research Area	Date of Award
1	Danamma S Shetter	Davangere University	10/12/2021	Biotechnology	Pursuing
2	Amrutha K N		01/04/2023		
3	Varun S		22/04/2024		
4	Arpitha D R		30/06/2025		

Academic Responsibilities (BOS, Academic Council, Syndicate, IQAC, NAAC, NIRF, Committees)

Sl. No.	Academic Responsibility / Position Held	Department / Institution / University	Role (Chairperson / Member / Coordinator / Convener / Nodal Officer, etc.)
1	Member BOS	DoS in Biotechnology, Davangere University	Member
2	Member BOE	DoS in Biotechnology, Davangere University	Member

3	Member BOE	DoS in Biotechnology Tumkur University	Member

Awards & Recognition					
Sl. No	**Name of the Award / Honour**	**Awarding Organization / Agency**	**Level (University / State / National / International)**	**Year**	**Cash Award / Citation / Medal (if applicable)**
1	48th series of student project proposal approved for sponsorship	KSCST	Govt. of Karnataka	2024	
2	47th series of student project proposal approved for sponsorship	KSCST	Govt. of Karnataka	2023	
3	Seed money for young teachers for research	Davangere University	University		

Membership in Professional Bodies					
Sl. No	**Name of the Professional Body / Society**	**Membership Category (Life / Annual / Fellow / Senior Member / Honorary)**	**From (DD/MM/YYYY)**	**To (DD/MM/YYYY)**	**National / International**
1	AFSTI Mysore, Karnataka	Life-time	2019	Till date	National
2	Indian Science Congress Association		2018		National
3	KAAS		2023		State

Extension & Outreach						
Sl. No	**Activity / Programme**	**Nature of Contribution (Coordinator / Convener / Resource Person / Expert / Volunteer / Consultant)**	**Organizing Institution / Agency**	**Level (University / State / National / International)**	**Date / Academic Year**	**Outcome / Impact**
1	National Conference	Co-chair technical session	Karnatak University, Dharwad	University	2025	

Expert Talks					
Sl. No	**Title of Lecture / Programme**	**Organizing Institution**	**Role (Keynote / Invited Speaker / Resource Person / Panel Expert)**	**Level (University / State / National / International)**	**Date**
1	FDP- Programme	Surana college Bangalore KSTA sponsored	Resource Person	State	2023

Research Metrics (as on 01/10/2026)		
Sl. No	**Research Metric**	**Value Source**
1	Total Research Publications	32
2	Book Chapters Published	03
3	Edited Books	01
4	Total Citations (Google Scholar)	309
5	**h-index (Google Scholar)**	9
6	**i10-index (Google Scholar)**	8
7	Patents Published/Granted	2

8	Ph.D. Scholars Guiding	04
9	Research Awards / Honours	03
10	Invited / Keynote Lectures Delivered	01

Personal Details		
Gender	Female	
Contact details	**Address for Communication**	**Permanent address**
	Dr. Navya H.M. Assistant Professor Department of Biotechnology Davangere University Shivagangotri, Davangere-577007	Dr. Navya H. M. D/o H. R. Mallikarjunaiah, SS Hi-tech Layout, Davangere-577004
Electronic address	**Telephone-** Mobile : **8971279925** ***E mail*** : *toxincontrol@gmail.com* *navyahm@davangereuniversity.ac.in* **Website**: Google Scholar Link : https://scholar.google.co.in/citations?hl=en&user=eeN9w2EAAAAJ	