

## BIO-DATA

**Name: Dr. MILIND HEMRAJ GAJBHIYE**

### **A. Personal Information**

- 1. Educational Qualification** : M.Sc., Ph.D. (Microbiology)
- 2. Present Designation** : Associate Professor
- 3. Date and Place of Birth** : 20<sup>th</sup> Nov 1973
- 4. Mobile No. & Email** : 9049661272; gajbhiyemilindtutu@gmail.com
- 5. Address**                      **Residence** : Flat no. 3, Vinaya Appt., Tapovan colony,  
Baramati, Dist –Pune. Pin code – 413 102
  
- Office** : Department of Microbiology, Tuljaram  
Chaturchand College of Arts, Science and  
Commerce, Baramati.

### **6. Educational Details :**

<b>Examinations</b>	<b>Name of the Board/ University</b>	<b>Year of Passing</b>	<b>Division/ Class/Grade</b>	<b>Subject</b>
<b>B.Sc.</b>	PUNE	1994	First	Microbiology
<b>M.Sc.</b>	PUNE	1996	First	Microbiology
<b>SET</b>	PUNE	1996	Qualified	Microbiology
<b>Ph.D.</b>	PUNE	May 2014	Awarded	Microbiology

- 7. Occupation** : Service
- 8. Institution** : Tuljaram Chaturchand College of Arts, Science and Commerce, Baramati, Dist – Pune.
- 9. Date of joining this college** : 8<sup>th</sup> August 1996

### **10. Work experience (in chronological order):**

<b>Sr. No.</b>	<b>Positions held</b>	<b>Name of the Institute</b>	<b>From</b>	<b>To</b>
1	Lecturer	Tuljaram Chaturchand College of Arts, Science and Commerce, Baramati	08/08/1996	30/09/2002
2	Sr. Lecturer		01/10/2002	30/09/2007
3	Selection grade Lecturer		01/10/2007	30/09/2010
4	Assistant Professor		01/10/2007	31/09/2010
5	Associate Professor		01/10/2010	Till date

**11. Professional Recognition/ Award/ Prize/ Certificate, Fellowship received by the applicant.**

Sr. No.	Name of award	Awarding agency	Year
1	Travel Grant Award for participation in an International Conference Abroad (Spain)	UGC, New Delhi	2017-18
2	Teacher fellowship under Faculty Improvement Programme	UGC, New Delhi	2010-2013

**B. Publications**

**Research Papers: (List of papers published in SCI Journals, in year wise descending order).**

S. No	Author(s)	Title & DOI	Name of Journal & Publisher	Impact factor	Volume & Page	Year
1	Smita Jagdale, Sangeeta Ahiwale, <b>Milind Gajbhiye</b> , Balu Kapadnis	Green approach to phytopathogen: Characterization of lytic bacteriophages of <i>Pseudomonas</i> sp., an etiology of the bacterial blight of pomegranate	Microbiological Research ( <i>Publisher- Elsevier</i> )	3.5	DOI: 10.1016/j.micres.2019.126300	2019
2	<b>Gajbhiye MH</b> & Kapadnis BP	Virulence factors of <i>Corynespora cassiicola</i> , a new fungal pathogen of pomegranate fruit rot, Its morphological and molecular characterization DOI: 10.1007/s40009-018-0722-2	National Academy of Science Letters ( <i>Publisher – Springer</i> )	0.369	42 (3) 253-257	2019
3	<b>Gajbhiye MH</b> & Kapadnis BP	Bio-efficiency of Antifungal Lactic Acid Bacterial Isolates for Pomegranate Fruit Rot Management 10.1007/s40011-017-0891-7	Proc. Natl. Acad. Sci., India, Sect. B Biol. Sci. <i>Publisher - Springer</i>	0.59	88(4): 1477-1488	2018
4	Marathe RJ, Phatake YB, Shaikh AC, Shinde BP & <b>Gajbhiye MH</b>	Effect of IAA produced by <i>Pseudomonas aeruginosa</i> 6A (bc4) on seed germination and plant growth of <i>Glycin max</i> 10.18006/2017.5(3).351.358	Journal of Experimental Biology and Agricultural Sciences	ISSN No. 2320–8694	5(3): 351-358	2017
5	<b>Gajbhiye MH</b> & Kapadnis BP	Antifungal-activity-producing lactic acid bacteria as biocontrol	Biocontrol Science and Technology) <i>Publisher – Taylor &amp;</i>	0.9	26 (11): 1451-1470	2016

		agents in plants. 10.1080/09583157.2016.1 213793	<i>Francis)</i>			
6	<b>Gajbhiye MH</b>	Probiotic traits of lactic acid bacteria isolated from aerial surfaces of pomegranate. DOI: 10.21746/ijbio.2016.08.002	International Journal of Bioassays	-	5 (8) 4733-4738	2016
7	<b>Gajbhiye M,</b> Sathe S, Shinde S & Kapadnis B.	Morphological and molecular characterization of pomegranate fruit rot pathogen, <i>Chaetomella raphigera</i> , and its virulence factors. DOI: 10.1007/s12088-015-0554-4	Indian Journal of Microbiology <i>Publisher – Springer</i>	1.143	56(1) 99-102	2015
8	Patil NN, Waghmode MS, Gaikwad PS, <b>Gajbhiye MH</b> , Gunjal AB, Nawani NN & Kapadnis BP	Potential of <i>Microbispora</i> sp. V2 as biocontrol agent against <i>Sclerotium rolfsii</i> , the causative agent of southern blight of <i>Zea mays</i> L (Baby corn)- in vitro studies	Indian Journal of Experimental Biology	1.165	52 1147-1151	2014
9	Ahiwale S, Tangunde S, Kopkar S, Karni M, <b>Gajbhiye M</b> & Kapadnis B	Liquid based formulations of bacteriophages for the management of waterborne bacterial pathogens in water microcosms	Indian Journal of Experimental Biology	1.165	51 1038-1045	2013
10	Patil NN, Waghmode MS, Gaikwad PS, <b>Gajbhiye MH</b> & Bankar AV	Bioautography guided screening of antimicrobial compounds produced by <i>Microbispora</i> V2	International Research Journal of Biological Sciences	-	2(2) 65-68	2013
11	<b>Gajbhiye MH</b> , Sathe SJ, Marathe RJ & Deshmukh RB	Antifungal <i>Bacillus subtilis</i> AFB22 from pomegranate with potential to control fruit rot	Research Journal of Biotechnology	0.296	8 (3) 26-35	2013
12	<b>Gajbhiye MH</b> , Prakash D & Kapadnis BP	Identification of pomegranate fruit rot pathogens and an	Journal of Mycology and Plant Pathology	-	42(4) 469-478	2012

		antagonist <i>Lactococcus lactis</i> ssp. <i>cremoris</i> PB6				
13	<b>Gajbhiye M</b> , Prakash D, Jagdale S, Ahiwale S, Patil N & Kapadnis B.	Pomegranate borne fungicidal lactic acid bacteria and their biodiversity	Proceedings of National Academy of Sciences, India, Section B: Biological Sciences <i>Publisher – Springer</i>	0.413	82 (3) 413-419	2012
14	Ahiwale S, Prakash D, <b>Gajbhiye M</b> , Jagdale, Patil N & Kapadnis B.	BVPa-3, a T7-like phage of <i>Pseudomonas</i> <i>aeruginosa</i> : Its isolation and characterisation	Current Microbiology <i>Publisher – Springer</i>	1.519	64 305- 311	2012
15	Sathe SJ, Kadam SP, Bankkar VP, <b>Gajbhiye MH</b> & Doshi DV	Studies on isolation and bioemulsifier production by bacteria from hydrocarbon contaminated soil	Journal of Empirical Biology	-	1(1) 45-54	2012
16	Sathe SJ, <b>Gajbhiye MH</b> , Mulay YR & Kapadnis BP	Purification and characterization of antifungal compounds produced by <i>Lactobacillus</i> <i>paracollinoides</i> isolated from fresh vegetables	Advances in Plant Sciences	-	25(2) 653- 657	2012
17	Sathe SJ, Mulay YR, Subedar SS & <b>Gajbhiye</b> <b>MH</b>	Antibacterial activity of medicinal plants against dental pathogens	Advances in Plant Sciences	-	25(2) 659- 661	2012
18	Patil NB, <b>Gajbhiye M</b> , Ahiwale S, Gunjal AB & Kapadnis BP	Optimization of indole 3- acetic acid (IAA) production by <i>Acetobacter</i> <i>diazotrophicus</i> L1 isolated from sugarcane	International Journal of Environmental Science	0.361	2(1) 295-302	2011
19	<b>Gajbhiye MH</b> & Kapadnis BP	Lactic acid bacteria as biocontrol agents in the management of oily spot disease of pomegranate	Journal of Plant Disease and Control	Communicated (under review) 1.3		2019

**Public database entries:**

NCBI database – 15 fungal gene sequences and 21 bacterial gene sequences

(link: <http://www.ncbi.nlm.nih.gov/nuccore/?term=Gajbhiye>)

### Reference Books:

S.No.	Title	Author's Name	Publisher	Year of Publication
1	Introduction to Microbiology	<b>Gajbhiye M. H.</b> , Sathe S. J., Pharande S. R. and Marathe R. J.	Career publications, Nashik, Maharashtra, India.	<b>2015</b>
2	Introduction to Microbiology	Sathe S. J., Pharande S. R., <b>Gajbhiye M. H.</b> and Marathe R. J.	Career Publications, Nashik, Maharashtra, India.	<b>2010</b>
3	Microbiology	Sathe S. J., Pharande S. R., <b>Gajbhiye M. H.</b> and Marathe R. J.	Career Publications, Nashik, Maharashtra, India.	<b>2004</b>

### C. Research Papers Presented

Sr. No	Topic Title	Name of Sponsoring Agency	Level	Date
<b>International conference abroad/ Foreign visits</b>				
1	<b>Full name of the scientific event : FEMS 2017, 7th Congress of European Microbiologists</b> <b>Venue : Feria Valencia – Convection &amp; Exhibition Centre, Avinguda de les Fires, 1 46035, Valencia, Spain.</b>	<b>Federation of European Microbiologists Society</b>	<b>International</b>	<b>9th July 2017 to 13th July 2017</b>
<b>Conferences in India</b>				
1	Gajbhiye MH. 2006. Lactic acid bacteria. National symposium New horizons in fermentation and food biotechnology-2006	Punjab University, Patiala.	National	21-22 March 2006
2	Gajbhiye MH and Kapadnis BP. 2007. Antifungal activity of lactic acid bacteria isolated from pomegranate plant and their potential in preventing fungal diseases of pomegranate. INNOVATION 2007.	BCUD, University of Pune.	State	19 <sup>th</sup> – 20 <sup>th</sup> Nov 2007
3	Gajbhiye MH and Kapadnis BP. 2009. Use of antagonistic lactic acid bacteria for the management of fungal infections in pomegranate. <i>Recent Trends in Microbial Biotechnology</i> .	RC Patel College, Shirpur.	State	7 <sup>th</sup> – 8 <sup>th</sup> Feb 2007
4	Gajbhiye MH, SJ Sathe, Pharande SR and BP Kapadnis. Screening of lactic acid bacteria from	IIT, Madras, Chennai.	National	18 <sup>th</sup> – 21 <sup>st</sup> Dec. 2007

	pomegranate plant and their potential in preventing fungal diseases of pomegranate			
5	Gajbhiye MH and Kapadnis BP. 2008. Fruit rot caused by <i>Phomopsis varsoniana</i> and its suppression by <i>Lactococcus lactis cremoris</i> PB6. <i>Innovation-2008</i> .	BCUD, University of Pune.	State	12 <sup>th</sup> – 13 <sup>th</sup> Nov. 2008
6	Gajbhiye M, Prakash D, Ahiwale S and Kapadnis B. 2011. Pomegranate borne fungicidal lactic acid bacteria and their biodiversity. 8 <sup>1st</sup> Annual Session, <i>The National Academy of Sciences, India (NASI) &amp; National Symposium on Sustainable Management of Biodiversity using Science and Technology</i> .	University of Kerala, Trivandrum.	National	24 <sup>th</sup> – 26 <sup>th</sup> Nov 2011
7	Gajbhiye MH, Prakash D, Ahiwale S, Sathe S, Sinha S, Kolhe N and Kapadnis BP. 2011. Pomegranate fruit rot caused by <i>Alternaria alternata</i> and its biocontrol by <i>Lactobacillus brevis</i> strain PFR77. 52 <sup>nd</sup> Annual conference of Association of Microbiologists of India (AMI). <i>International conference on microbial biotechnology for sustainable development</i> .	Punjab University, Chandigarh.	Internati onal	3 <sup>rd</sup> – 6 <sup>th</sup> Nov 2011
8	Gajbhiye MH and Kapadnis BP. 2012. <i>Chaetomella sp.</i> , a pomegranate fruit rot pathogen and antagonism by <i>Lactococcus lactis</i> ssp. <i>cremoris</i> . 53 <sup>rd</sup> Annual conference of Association of Microbiologists of India (AMI)-2012. <i>International conference on Microbial world: recent innovations and future trends</i> .	KIIT University, Bhubaneswa r	Internati onal	22 <sup>nd</sup> – 25 <sup>th</sup> Nov. 2012
9	Gajbhiye MH, Dubey M and Kapadnis BP. 2011. Biocontrol potential of antifungal <i>Bacillus subtilis</i> in the management of pomegranate fruit rot. 2011. <i>National conference on frontiers in life sciences</i> . Shardabai Pawar Mahila Mahavidyalaya, Shardanagar, Malegaon Bk., Baramati. (Oral)	S. P. Mahila College, Sharda Nagar, Malegaon Bk. Baramati	National	11 <sup>th</sup> – 13 <sup>th</sup> Jan 2011
10	Gajbhiye MH, Jagdale S, Ahiwale S and Kapadnis BP. 2013. <i>Lactococcus lactis</i> ssp. <i>lactis</i> PFL9 as bio-	Moolji Jaitha College,	National	5 <sup>th</sup> – 6 <sup>th</sup> Feb. 2013

	fungicide in the management of pomegranate fruit rot. <i>National conference on recent advances in Agrobiotechnology for sustainable agricultural practices.</i> (Oral)	Jalgaon.		
11	Gajbhiye MH & Kapadnis BP. 2013. Morphological and molecular identification of pomegranate fruit rot pathogen, <i>Chaetomella raphigera</i> , and its virulence factors. <i>International conference on advances in biotechnology and bioinformatics-2013</i>	DY Patil University, DBT, NABARD, Biotech research society of India.	International	25-27 Nov. 2013
12	Gajbhiye MH. 2014. <i>Alternaria solani</i> : A pomegranate fruit rot pathogen, its morphological and molecular characterization and virulence factors. <i>National conference on empowering mankind with microbial technologies (AMI-EMMT-2014).</i> (Poster)	Tamil Nadu agricultural University, Coimbatore	National	12-14 Nov. 2014
13	Gajbhiye MH. 2014. Morphological and molecular characterization of a pomegranate fruit rot pathogen and its virulence factors. <i>Recent trends and future prospects in multidisciplinary approaches in Microbiology.</i> (Oral)	Rajaram College, Kolhapur	National	4-5 Oct. 2014
14	Gajbhiye MH. 2014. Isolation and characterization of <i>Colletotrichum gloeosporioides</i> , a pomegranate fruit rot pathogen and its virulence factors. <i>Third global sustainable biotech congress.</i> (Poster)	North Maharashtra University, Jalgaon.	International	1-5 Dec. 2014
15	Gajbhiye MH & Kapadnis BP. 2015. Virulence factors of <i>Corynespora cassiicola</i> , a new fungal pathogen of pomegranate fruit rot, its morphological and molecular characterization. <i>New horizons in Biotechnology-2015</i> (Poster)	New horizons in Biotechnology-2015, Trivandrum	International	22-25 Nov 2015
16	Gajbhiye MH. 2016. Lactic Acid bacteria as Biocontrol Agents: A Novel Approach in the Management of Oily Spot Disease of Pomegranate. <i>International conference on plant research and resource management</i> (Oral)	APSI, TC College, Baramati	International	11-13 Feb 2016

17	Marathe RJ, Bhandwalkar MD, Metkari SF and Gajbhiye MH. 2018. Bacteriophage Therapy: A Novel Approach for the control of Bacterial Diseases if Pomegranate. <i>International conference on Doubling farmer's income through innovative approaches.</i> (Poster)	Krishi Vidyan Kendra, Baramati	International	09-11 April 2018
18	Gajbhiye M.H. 2018. <i>Cladosporium</i> sp., a fungal pathogen of fruit rot of pomegranate: Its morphological & molecular characterization, and virulence factors. <i>59<sup>th</sup> Annual Conference of Association of Microbiologists of India (AMI-2018)</i> (E-Poster)	University of Hyderabad, Hyderabad, Telangana state	International	09-12 Dec. 2018
19	Biocementation, International Conference on Empowering Society with Microbial Technology (ICESMT-2019)	TC College, Baramati	International	7 <sup>th</sup> to 9 <sup>th</sup> Feb. 2019

#### D. Research projects

Sr. No.	Name of Investigator/s	Duration	Funding agency	Total amount sanctioned	Status (Sanctioned/Ongoing/Completed)
1	MH Gajbhiye and SJ Sathe	2006-2008	UGC, New Delhi	53,000/-	Completed
2	MH Gajbhiye	2006-2008	BCUD, University of Pune	3,00,000/-	Completed
3	MH Gajbhiye	2014-2016	BCUD, SP Pune University	2,40,000/-	Completed
4	MH Gajbhiye	2019-2020	DST-SERB, New Delhi	27,38,320/-	Ongoing

#### E. Reviewer for the Journals:

- a) World Journal of Microbiology and Biotechnology
- b) Biocontrol Science and Technology
- c) International Journal of Biological and Physical Sciences



- d) African Journal of Microbiological Research
- e) Sky Journal of Microbiology Research
- f) Journal of Plant Disease and Control
- g) Current Chemical Biology

#### **F. Administrative Work / Extra Curricular Work**

<b>Sr. No.</b>	<b>Designation</b>	<b>Period</b>
1	<b>College Development Committee (CDC) - Teacher's representative Member</b>	2017 - 2021
2	<b>Assistant Professor</b>	1996 – 2010
3	<b>Head of Department</b>	2006-2008
4	<b>Observer at State Eligibility Test</b>	2015-2019
5	<b>Coordinator-</b> i. Career Oriented Course (COC) in 'Clinical pathology' ii. Career Oriented Course (COC) in 'Quality Control Techniques in Food, Pharma & Milk industries'	2005-2010  2014-2019
6	<b>Internal Quality Assurance Cell (IQAC) – Member Assit. Coordinator</b>	2016-2019  2019-2020
7	<b>In-charge: Common facility centre (FTIR, AAS, UV-Spectrometer, HPLC, Fermenter facilities)</b>	2017-2019

#### **G. Organization of Summer/ Winter Schools**

<b>Position held</b>	<b>Event</b>	<b>Duration</b>	<b>Sponsoring agency</b>
Coordinator	Special winter school	9 <sup>th</sup> September to 29 <sup>th</sup> (21 days)	HRDC, Savitribai Phule Pune University

#### **H. Life Membership of Professional bodies**

<b>Sr. No.</b>	<b>Name of Professional Body/ Description</b>
1	Life Member of Association of Microbiologist of India
2	Life Member of Biotechnology Research Society of India
3	Member of Association of Mycology and Plant Pathology
4	Life member of Microbiologists Association, India

