

**Dr. Ashish Janraoji Warghane, Ph.D**

Associate Professor,  
Faculty of Life Science, Mandsaur University,  
Mandsaur Mhow- Neemuch By-pass Road, SH- 31,  
Mandsaur- 458 001, M.P. India

**Permanent Address**

At : Wahitpur, Post- Sukali (Station)  
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**PROFESSIONAL QUALIFICATIONS:**

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<b>Period</b>	<b>: Designation and Employer</b>
1 <sup>st</sup> July 2021 to till date	: <b>Associate Professor</b> , Faculty of Life Sciences, Mandsaur University, Mandsaur, Mhow- Neemuch By-pass Road, SH-31, Mandsaur- 458 001 M.P. India.
28 <sup>th</sup> March, 2019 to 31 <sup>st</sup> June, 2021	: <b>Assistant Professor</b> , Faculty of Life Sciences, Mandsaur University, Mandsaur, Mhow- Neemuch By-pass Road, SH-31, Mandsaur- 458 001, M.P. India.
1 <sup>st</sup> Sept., 2012 to 27 <sup>th</sup> March, 2019	: <b>Senior Research Fellow / Young Professional II / Technical Assistant</b> , ICAR- Central Citrus Research Institute, Nagpur-440 010, Maharashtra, India.
19 <sup>th</sup> Jan., 2012 to 22 <sup>nd</sup> Aug., 2012	: <b>Chemist</b> , Ground Water Survey and Development agency (GSDA), Chandrapur-442 401, India.
1 <sup>st</sup> Aug., 2011 to 12 <sup>th</sup> Nov., 2011	: <b>Lecturer</b> - Department of Biotechnology, Jankidevi Bajaj Science College, Wardha-442 001, India.

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**ACADEMIC QUALIFICATION**

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<b>Name of Examination</b>	<b>University/Board</b>	<b>Year of Passing</b>	<b>Percentage</b>
Ph.D. (Biotechnology)	SHUATS, Prayagraj	2018	88.60%
M.Sc.*(Biotechnology)	R.T.M. Nagpur University	2011	80.00%
B.Sc. (Biotech, Micro. & Chem.)	R.T.M. Nagpur University	2009	64.40%
H.S.C.	Maharashtra State Board	2006	57.50%
S.S.C.	Maharashtra State Board	2003	64.40%
MS-CIT	MSBTE	2017	88.00%

\* **Second topper at University level**

### Ph.D. Thesis Title:

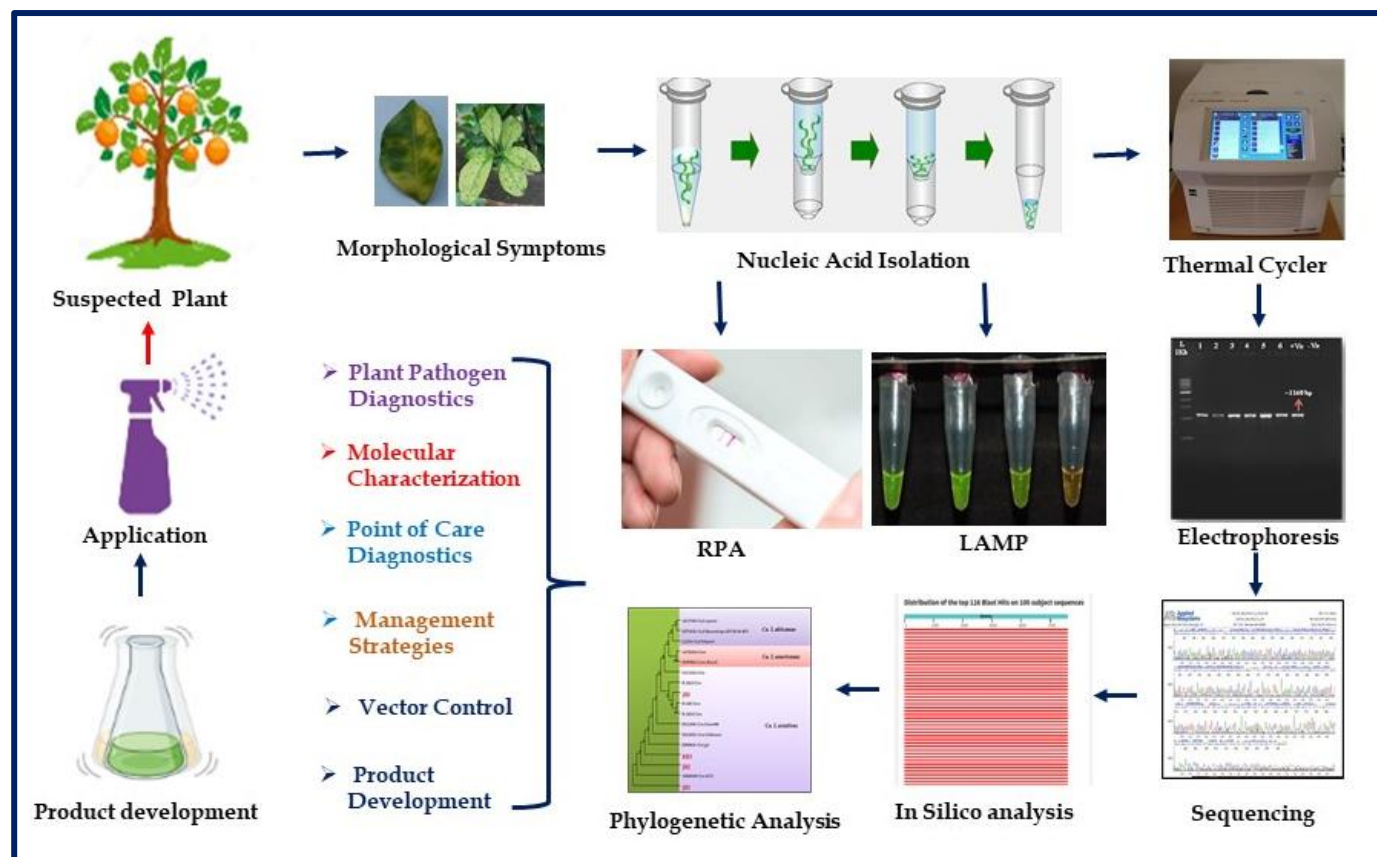
“Molecular detection and characterization of *Citrus tristeza virus* and ‘Candidatus Liberibacter asiaticus’ related with citrus decline in India” under the esteemed guidance of **Dr. Pragati Misra, SHUATSS & Dr. Dilip Kumar Ghosh, Director, ICAR – Central Citrus Research Institute Nagpur, Maharashtra, India**

### Dissertation Work:

Isolation and Characterization of *Pseudomonas* species from Godavari River sample, under the esteemed guidance of **Dr. Murlidhar Jisnani, Professor, Sindhu Mahavidyalaya, Nagpur, Maharashtra, India**

### FIELD OF RESEARCH/ INTEREST:

- ❖ Plant Molecular Virology and Diagnostics
- ❖ Plant Pathology: Citrus greening
- ❖ Microbiology
- ❖ Biotechnology





Connecting research and researchers

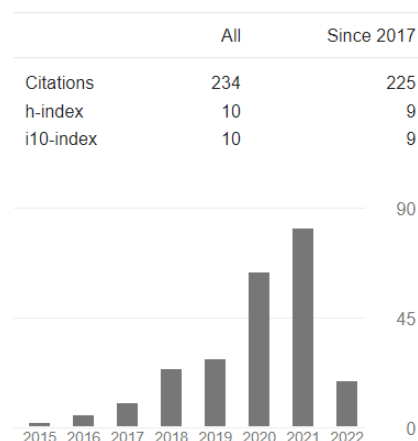


<https://orcid.org/0000-0002-9778-2998>

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Name  
**Ashish Warghane**

Also known as



## RESEARCH PROJECTS

Name of Project	Funding agency	Cost	Status
Molecular detection and characterization of ' <i>Candidatus Liberibacter</i> spp.' from major citrus growing region of Madhya Pradesh	Mandsaur University Research Council, (MURC) Mandsaur	Rs. 50000.00	Completed
Production of organic manure using Soyabean industrial waste	Innovation, Incubation & Intellectual Property Rights Cell (III Cell), Mandsaur University	Rs. 28000.00	Completed
Development of multiplex PCR based diagnostic kit for rapid and sensitive diagnosis of most devastating citrus diseases prevalent in India	Madhya Pradesh Council of Science and Technology (MPCST), Bhopal	Rs. 8,94,000.00	Submitted
Development of broad range universal pathogen-PGPB consortium against fungal pathogens of soybean	Madhya Pradesh Council of Science and Technology (MPCST), Bhopal	Rs.7,62,000.00	Submitted
Development of nanoemulsion based novel <i>Tinospora cardipholia</i> extract against <i>Candidatus Liberibacter asiaticus</i> treatment of Citrus Greening Diseases	Start Up Research grant, SERB (DST)	Rs.170000.00	Submitted
Assessment of Insecticidal Property of <i>Tinospora cordifolia</i> (Giloy) against <i>Diphorina citri</i> for Citrus Greening Disease Management	Delhi University, Delhi	Rs. 300000.00	Submitted

## EXAMS QUALIFIED AT NATIONAL LEVEL

- **ICAR-ARS NET Examination;** April and October 2014, Jan.2016.
- **Maharashtra State Eligibility Test (SET),** 2017, 2018.

## AWARDS

- **Dr. R.L. Munjal Memorial Best Ph.D. Thesis Research Award** from "Himalayan Phytopathological Society, Department of Plant Pathology, Dr. Y.S. Parmar University of Horticulture and Forestry, Nauni, Solan – 173230 (HP), India " 2021.
- **Young Scientist Award,** Microbiologist Society, India-2020.
- **Young Science Leader (YSL), Virtual Internship with Science Leader-2020.** Guided four National and International students in internship.
- **Utkishta Sewa Samman-2022 – Dainik Bhaskar,** Mandsaur 04.04.2022.
- **Innovative Article Award-** Agriculture and Food Magazine., West Bengal, India.
- **Best Article Award-** Agriculture and Food Magazine., West Bengal, India.
- **Awarded First Prize for the Poster Presentation in National Symposium** on “Sustainable Citrus Production: Way Forward” ICAR- Central Citrus Research Centre for Citrus, Nagpur. Maharashtra, India. 2015.
- Received award for “**Best Seminar Topic**” from NACS College, Wardha, Maharashtra, India 2007.

## MEMBERSHIP/APPRECIATIONS

- **Life member** Microbiologist Society, India.
- **Member** of Indian Phytopathology Society, New Delhi.
- **Member** of Himalayan phytopathology Society, Solan, Hemachal Pradesh.
- **Life Time membership:** International Journal of Sciences and Engineering development Research.
- **Member of Board of Studies,** Faculty of Life Sciences, Mandsaur University, Mandsaur.
- **Shikshak- Samman-** Teacher Day -05 Sept. 2021. Lions Club, Mandsaur, Madhya Pradesh, India
- **R & D Co-ordinator,** Faculty of Life Sciences, Mandsaur University, Mandsaur.
- **Examiner** for Practical Examination of Graduate and post graduate at Department of Agriculture, Mandsaur University, Mandsaur.
- **Moderator** for Mandsaur University Examination.
- **Counsellor** for Mandsaur University

## RESEARCH PUBLICATIONS

Sr. No	Authors	Title	Year	Journal/ Volume	Impact Factor
1	S. Kokane, P. Misra, A. D. Kokane, M.G. Gubyad, <b>Ashish Warghane</b> , D. Surwase, M. K. Reddy & D. K. Ghosh	Development of a real-time RT-PCR method for the detection of Citrus tristeza virus (CTV) and its implication in studying virus distribution in planta	2021	3 Biotech, 11, 431 (2021)	2.40
2	<b>Ashish Warghane</b> , T Petkar, S U Preeyaa, N Kumari N, L Ranjan.	In Silico Characterization of Severe Acute Respiratory Syndrome Coronavirus-2 (SARS-CoV-2) based on the Spike Protein Gene	2021	Eur. J. Medi. & Oncology. 2021; 5(2): 163-180	Web of Science & Scopus Indexed
3	A. Kokane, Kapil Lawrence, D. Surwase, P. Misra, <b>Ashish Warghane</b> and D. K. Ghosh	Development of reverse transcription duplex PCR (RT-d-PCR) for simultaneous detection of the Citrus Tristeza Virus and Indian Citrus Ringspot virus	2021	Int. J of Inno. Horticulture 9 (2), 131-138	3.4 (NASS)
4	A. Kokane, S. Kokane, <b>Ashish Warghane</b> , M. Gubyad, A. K. Sharma, K. M Reddy, D.K. Ghosh	A Rapid and Sensitive Reverse Transcription-Loop-Mediated Isothermal Amplification (RT-LAMP) Assay for the Detection of Indian Citrus Ringspot Virus	2021	Plant disease, 105: 5, 1346-1355	4.2
5	S. Kokane, A D Kokane, P. Misra, <b>Ashish J Warghane</b> , P. Kumar, M. Gubyad, A. K. Sharma, K. Biswas, D. K. Ghosh	In-silico characterization and RNA-binding protein based Polyclonal antibodies production for detection of citrus tristeza virus.	2020	Mol. and Cell. Probes. 54: 101654	2.36
6	<b>Ashish Warghane</b> , A. Kokane, S. Kokane, M. Motghare, D. Surwase, S. P. Chodhury, K. K. Biswas, D. K. Ghosh	Molecular detection and coat protein gene-based characterization of <i>Citrus tristeza virus</i> prevalent in Sikkim state of India.	2020	Indian Phytopathology. 73,135-143	0.9
7	D. K. Ghosh, M. Motghare, A. Kokane, S. Kokane, <b>Ashish Warghane</b> , S. Bhose, D. Surwase, M. S. Ladaniya	First report of a ' <i>Candidatus</i> Phytoplasma cynodontis'-related strain (group 16SrXIV) associated with Huanglongbing disease on Citrus grandis in India	2019	Aus. Plant Dis. Notes . 14:9	1.01
8	D. K. Ghosh, Sunil B Kokane., A. Kokane., <b>Ashish Warghane.</b> , M.R. Motghare., A. Sharma., M. K. Reddy	Development of a recombinase polymerase based isothermal amplification combined with lateral flow assay (HLB-RPA-LFA) for rapid detection of " <i>Candidatus</i> Liberibacter asiaticus"	2018	Plos one. 13 (12): e0208530.	2.75
9	D. K. Ghosh, S. Kokane, P.	Antimicrobial Nano-Zinc Oxide-2S	2018	PLos one.13	2.75

	Kumar, A. Ozcan, <b>Ashish Warghane</b> , M. Motghare, S. Santra and A. K. Sharma	Albumin protein formulation significantly inhibits growth of " <i>Candidatus Liberibacter asiaticus</i> " in planta		(10):e0204702	
10	Gunjan Saini, N. Sharma, V. Dalal, <b>Ashish Warghane</b> , D. Ghosh, P. Kumar and A. Sharma	The analysis of subtle internal communications through mutation studies in periplasmic metal uptake protein CLas-ZnuA2	2018	J. Stru. Biology. 204 (2), 228-239	3.49
11	M. Motghare, A. K. Dhar, A. Kokane, <b>Ashish Warghane</b> , S. Kokane, A. K. Sharma, M. K. Reddy and D. K. Ghosh	Quantitative Distribution of Citrus yellow mosaic badnavirus in Sweet orange ( <i>Citrus sinensis</i> ) and its Implication in Developing Disease Diagnostics.	2018	J. Virol Methods. 259:25-31	1.75
12	<b>Ashish Warghane</b> , P. Misra, S. Bhose, K. K. Biswas, A. Sharma, M. K. Reddy and D K Ghosh	Development of a simple and rapid reverse transcription-loop mediated isothermal amplification (RT-LAMP) assay for sensitive detection of citrus tristeza virus.	2017	J. of Viro Methods. Vol. 250, 6-10	2.00
13	<b>Ashish Warghane</b> , P. Misra, D. K. Ghosh (LKN), P. K. Shukla and D. K. Ghosh	Diversity and characterization of Citrus tristeza virus and <i>Candidatus Liberibacter asiaticus</i> associated with citrus decline in major citrus growing areas of India	2017	Indian Phytopathology. Vol.70 (3) 359-367	0.8
14	D. K. Ghosh, S. Bhose, P. Sharma, <b>Ashish Warghane</b> , M. Motghare, M.S. Ladaniya, K. Reddy, V. Thorat and A. Yadav	First Report of a 16SrXIV Group Phytoplasma Associated with Witches' Broom Disease of Acid Lime ( <i>Citrus aurantifolia</i> ) in India.	2017	Plant Disease, 101 (5): 835	3.19
15	N. Sharma, P. Selvakumar, G. Saini, <b>Ashish Warghane</b> , D. K. Ghosh, A. K. Sharma	Crystal structure analysis in Zn <sup>2+</sup> -bound state and biophysical characterization First Report of a 16SrXIV Group Phytoplasma Associated with Witches' Broom Disease of Acid Lime ( <i>Citrus aurantifolia</i> ) in India.of CLas-ZnuA2.	2016	Biochimica et Biophysica Acta 1864, 12: 1649-1657	3.1
16	D. Ghosh, S. Bhose, M. Motghare, <b>Ashish Warghane</b> , K. Mukherjee, D. Ghosh. (Sr.), A. Sharma, M. Ladaniya and S. Gowda	Genetic diversity of the Indian populations of ' <i>Candidatus Liberibacter asiaticus</i> ' based on the tandem repeat variability in a genomic locus.	2015	Phytopathology, 105:1043-1049	3.12
17	Ghosh, S. Bhose, <b>Ashish Warghane</b> , M. Motghare, A. K. Sharma, A. K. Dhar and S. Gowda	Loop-mediated isothermal amplification (LAMP) based method for rapid and sensitive detection of ' <i>Candidatus Liberibacter asiaticus</i> ' in citrus and the psyllid vector, <i>Diaphorina citri</i>	2016	J of Plant Biochem and Biotech. 25 (2):	1.09



		Kuwayama.		219-223	
18	D. Ghosh, S. Bhose, K. Mukharji, B. Aglawe, <b>Ashish Warghane</b> , M. Motghare, V.K. Baranwal and A. Dhar	Molecular characterization of Citrus yellow mosaic badnavirus (CMBV) isolates revealed the presence of two distinct strains infecting citrus in India.	2014	Phytoparasitica. 42 (5): 681-689	0.90
19	<b>Ashish Warghane</b> , G. Wagh, B.B. S.P Nag, M. Jisnani, R. Thaware and H. Kitey	Isolation and Characterization of <i>Pseudomonas</i> species from Godavari River sample.	2011	Asiatic J. Biotech Resources 2 (7): 862-866	NA
<b>Book Chapter:</b>					
20	D.K. Ghosh, <b>Ashish Warghane</b> , M. Motghare, D.K. Ghosh Sr.	Citrus disease and their management, Disease of commercial crops in India.	2017	Neoti Book agency Pvt. Ltd. New Delhi. 188	NA
21	D. K. Ghosh, <b>Ashish Warghane</b> , K. K. Biswas	Rapid and Sensitive Detection of <i>Citrus Tristeza Virus</i> using Reverse Transcription-Loop Mediated Isothermal Amplification (RT-LAMP) Assay.	2019	Methods in Molecular Biology. Springer Nature.143-150	NA
22	Rekadwad B, Gonzalez JM, Shah S, Suryavanshi MV, Khobragade CN, <b>Ashish Warghane</b>	Microbiome perspective: Cross-disciplinary exploitations of chitinases. In: A. Shanthipriya (Ed)., Mycology: Current and Future Developments - Sustainable Utilization of Fungi in Agriculture and Industry.	2021	Bentham Science Publishers Pte. Ltd., Singapore. (In Press).	NA
<b>Technical/ Popular article</b>					
23	<b>Ashish Warghane</b>	Citrus Tristeza Virus- The destroyer of citrus plant.	2020	Agriculture and Food: e-newsletter.2 (1): 440-441	NA
24	<b>Ashish Warghane</b> , Trapti Rajuguru, Shruti Sharma	<i>Pseudomonas</i> : The Multifaceted Bacteria.	2020	Agriculture and Food: e-newsletter. 2 (6):159-160	NA
25	Ayushi Malik & <b>Ashish Warghane</b>	Magnetic field: A growth impetus in Plant tissue culture"	2020	Agriculture and Food Magazine Vol.2(8): 830-831.	NA

#### NCBI sequences:

A total of **300** bacterial and viral nucleotide gene sequences submitted in NCBI GenBank database.

### Editor of International and National Journal

- International Journal of Scientific Development and Research
- Agriculture and Food e newsletter
- Science Inquest

### Reviewer of International journal

- Plant Pathology- Willy publication
- Journal of food Technology & Sciences (Springer Nature)
- 3 Biotech (Springer Nature)
- International Journal of Current Microbiology and Applied Sciences.
- Advances in Science, Technology and Engineering Systems Journal (ASTESJ)
- Agriculture and Food e newsletter
- International Journal of Microbial Sciences

### Invited talks:

- Delivered **Invited talk** on “Major citrus viruses and “*Candidatus liberibacter asiaticus*” related with citrus decline in India at National E- Conference on “**Emerging Trends in Agricultural & Biological Sciences (ETABS-2021)**” organized by Society of Bioinformatics and Biological Sciences (SBBS) in collaboration with Applied research and Development Organization (ARDO).
- Deliver virtual presentation as a “**Key Note speaker**” entitled on "Viruses and its detection using novel Molecular Biology Tools" at Institute of Applied Medicine & Research, Ghaziabad, Uttar Pradesh, India Date:29.05.2020.
- Deliver virtual “**Guest lecture**” entitled on “Plant Viruses and their Diagnosis” at Molecular Diagnostics and Biomolecule Characterization Research Laboratory, Bannari Amman Institute of Technology, Sathyamangalam, TamilNadu, India Date: 20.10.2020
- Poster presented entitled “**Development of Reverse Transcription–Loop mediated isothermal amplification (RT-LAMP) assay for rapid detection of Citrus tristeza virus**” at Probing beneficial microorganism for next generation at PDKV, Akola, Maharashtra, India Date: 24 February, 2021.

### Trainings attended at different National Institutes / Research Centers:

Title of Training	Venue	Dates
CSIR-Summer Research Training Programme-2020	CSIR-NIEST, Jorhat, Assam	June-Aug. 2020
Training program on awareness of NABL ISO: 17025-2017	Department of Civil Engineering, Mandsaur University, Mandsaur	9-10 Aug, 2019



Seed Health and Management	World Vegetable Centre, AVRDC, ICRISAT, Hyderabad	9-11 Oct, 2018
Cloning, Protein expression and purification	Indian institute of Technology (IIT), Roorkee.	7-21 April, 2013
Modern instrumental methods of analysis for diverse application: From nonmaterial to biology	Department of Chemistry VNIT, Nagpur	22-26 Feb, 2016
Citrus production and Post harvest Management	ICAR-CCRI, Nagpur	9-13 March, 2015
Immunological, Molecular and Animal cell culture techniques	CIIMS, Nagpur	1- 21 June, 2011
Antibody purification, Antibody conjugation, ELISA	Abgenex Pvt. Ltd, Bhuvneshwar, Odisha.	4-13 Nov, 2016
Application of Amplify RP discovery kit, Amplify RP Accer8 for detection of <i>Candidatus Liberibacter asiaticus</i> infecting citrus	Arsh Biotech Pvt Ltd. New Delhi	14-16 March, 2016

### Faculty Development Program:

Participated & completed successfully AICTE Training and Learning (ATAL) Academy Online Elementary FDP on "Nutraceuticals: Basics & Beyond" from 2021-7-12 to 2021-7-16 at Bannari Amman Institute of Technology

### Research papers / Articles in National conferences: 3

Abstract / Poster in National conferences : 50

Conferences Attended : 10

### PhD Students Guiding:

Sr. No	Name of Student	Enrolment Number	Year	Topic
1	Sachin Misal	20LSC6LSC1002	2020	Double Haploid production in <i>Capsicum annum</i>
2	Issupriya	20LSC6LSC1001	2020	Molecular detection and Characterization of " <i>Candidatus liberibacter asiaticus</i> " from the Mandsaur district of Madhya Pradesh.
3	Shruti Butwal	21LSC6LSC1002	2021	Molecular Characterization of ' <i>Candidatus Liberibacter asiaticus</i> ' from Malwa Region of M.P. and <i>In-Silico</i> Drug Designing against its Vital Proteins

### Dissertation Guidance to M. Sc. and B. Sc. Students:

Sr. No	Name of Student	Class	Year	Topic
1	Tamanna Patidar	M.Sc. Biotechnology	2020	Molecular detection and Characterization of " <i>Candidatus liberibactor asiaticus</i> " from the Mandsaur district of Madhya Pradesh.
2	Shruti Sharma	M.Sc. Biotechnology	2020	Isolation and Characterization of <i>Pseudomonas aeruginosa</i> and <i>Serratia macerence</i> from the Shivna River.
3	Asha Koushik	M.Sc. Biotechnology	2020	Molecular detection and Characterization of " <i>Candidatus liberibactor asiaticus</i> " from the Mandsaur district of Madhya Pradesh.
4	Sunil Mali	B.Sc. Biotechnology	2019	Isolation of Coliform from Shivana River at Mandsaur.
5	Rajendra Rajput	B.Sc. Biotechnology	2019	Isolation of <i>Coliform</i> from Shivana River near Pashupatinath Temple, Mandsaur.

### Workshop Organizer/ Webinar/ Resources person/ Coordinator:

- **Coordinator- Webinar "Know your Intellectual Property Rights and Protect them"** Organized with association ship with Patent Office, Mumbai, DPIIT, Ministry of Commerce and Industry, Govt of India-25th February 2022.
- **Coordinator- Two Days Online National Workshop On "Detection of Plant Viruses using Polymerase Chain Reaction (PCR)" (MDPVP-2022)** 18th- 19th February 2022.
- **Organizing committee member- International e-Conferences on Biological Sciences, organize by** International Journal of Microbial Sciences. Dec., 2021.
- **Coordinator- Webinar "Research Methodology: The Era of Bioinformatics" organized on** 06.07.2021.
- **Coordinator- Expert lecture- "Bifidobacterial Probiotics as Complementary Therapy for Covid-19"** Dated 03 may, 2021.
- **Coordinator - Leader of the week event** entitled "Workplace Culture & Innovation" Dated on 09-December, 2021.
- **Organizing committee member- National Hands-On workshop- Microbial Biotechnology Approach for Profiling Industrially Important Fungi** 9-10 March, 2021.
- **Coordinator-International Essay Competition** Topic: The COVID-19 Vaccine: Present and Future. Dated on 12.12.2020
- **Resource's person** -Online webinar on **Impact of COVID-19 on Global Higher Education** organized by Mandsaur university in association with CollegeDunya dated on 02<sup>nd</sup> May, 2020.
- **Coordinator** -Online National Workshop on **Molecular Detection of Plant Pathogen** using PCR 18-19 June, 2020
- **Coordinator- Online Workshop: Role of Biotechnology to identify a criminal.** dated on 7<sup>th</sup> May, 2020.
- **Coordinator-Online Workshop: Vaccine production through microbiology.** dated on 23<sup>rd</sup> May, 2020.

### Personal Information:

Date of Birth : 16<sup>th</sup> April, 1987  
Age : 34 Years  
Gender : Male  
Marital Status : Married  
Father Name : Mr. Janraoji Warghane  
Mother Name : Mrs. Chanda Warghane  
Nationality : Indian  
Hobbies : Reading scientific book

**Languages known:** English, Hindi, Marathi

### Strengths

- Hard worker
- Self-motivated
- Ability to work in team
- Positive attitude

### References

**Dr. Dilip Kumar Ghosh**

**Director,** ICAR – Central Citrus Research  
Institute Nagpur, Maharashtra, PIN: 440 010  
E-mail: ghoshdk@hotmail.com  
Mobile: 9422145825/  
9623785121

**Prof. (Dr.) A. M. Deshmukh,**  
**President,**

Microbiologist Society India  
Osmanabad, Maharashtra, India  
Email: amdeshmukh1@rediffmail.com  
Mobile: 9822079782

**Prof. (Dr.) Ashwini Kumar Sharma**  
**Professor, HoD,**

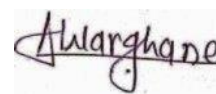
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**Prof. (Dr.) R. M. Gade**  
**Director-Extension,**

Panjabrao Krushi Vidyapeeth, Akola  
E-mail: gadermg@gmail.com  
Mobile: 9850230555

### Declaration:

I do hereby declare that the above-mentioned particulars are true to the best of my knowledge and belief.



(Ashish J. Warghane)

**Date** : 10.04.2022  
**Place** : Mandsaur