

**Name: Dr. Megha D Bhatt**  
**Designation: Adjunct Assistant Professor-  
 Biotechnology & Manager (Research), GSFC Ltd**

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School: School of Science



**Research Interest and related experience**

- Biostimulants, Biofertilizers, Nanobiofertilizers, Plant growth promoter
- Development of New product range of Specialty Fertilizers & Chemicals along with R&D team
- Agriculture extension activities like Soil Testing, Farm Youth Training Programme
- Involved in the Pilot Scale project for the production of Biofertilizer

**Academic Background:**

<b>Degree</b>	<b>Subject</b>	<b>University</b>	<b>Year</b>
<b><u>Ph.D.</u></b>	<b><u>Microbiology</u></b>	<b><u>GB Pant University of Agriculture &amp; Technology, Pantnagar, Uttarakhand</u></b>	<b><u>2013</u></b>
<b><u>Masters</u></b>	<b><u>Microbiology</u></b>	<b><u>GB Pant University of Agriculture &amp; Technology, Pantnagar, Uttarakhand</u></b>	<b><u>2009</u></b>
<b><u>Bachelors</u></b>	<b><u>Biology</u></b>	<b><u>Kumaun University, Nainital, Uttarakhand, India</u></b>	<b><u>2007</u></b>
<b><u>Postgraduate diploma in Agriculture extension management (Online)</u></b>	<b><u>Agriculture extension management</u></b>	<b><u>Manage, Hyderabad</u></b>	<b><u>2021</u></b>

**Professional Experience:**

<b>From</b>	<b>Period</b>	<b>Position</b>	<b>Organisation</b>
<b><u>June 2013- March 2019</u></b>	<b><u>5 Years &amp; 8 months</u></b>	<b><u>Deputy Manager (Agribuisness)</u></b>	<b><u>GSFC Ltd</u></b>
<b><u>April 2019 – Till Date</u></b>	<b><u>2 Years &amp; 5 months</u></b>	<b><u>Manager (Research)</u></b>	<b><u>GSFC Ltd</u></b>

## Teaching Engagements:

Title	Course Code	Class Name	School Name
<u>Associated as Industrial Mentor</u>	<u>Imparting internship to more than 70 students</u>	<u>Internship program for UG</u>	<u>School of Science</u>

## Publications:

- Patel K V, Nath, M, **Bhatt M D**, Dobriyal A.K, Bhatt, D, (2020), Nanofomulation of zinc oxide and chitosan zinc sustain oxidative stress and alter secondary metabolite profile in tobacco, **3Biotech**, 10 (11) 2020: 1-15 *Springer*
- Bhatt D, **Bhatt M D**, Dobriyal AK and Arora S (2016), Effect of Exogenous application of H<sub>2</sub>O<sub>2</sub> in *Eleusine coracana* plants is correlated with increased activity of antioxidant enzymes in a time dependent manner. *International journal of advanced technology in Engineering and Science*, 4(10): 180-188
- **Bhatt MD**, Shalini Phartyal, Anjana Srivastava and Anita Sharma (2012). Degradation of  $\gamma$ -Hexachlorocyclohexane by *Gordonia* species isolated from contaminated field soil, *Pesticide Research Journal* 224 (2): 199-204.
- Satyal SS, Nath M, **Bhatt MD**, Gohil T, Bhatt D (2021) Molecular Mechanisms Deciphering Cross-Talk Between Quorum Sensing Genes and Major Iron Regulons in Rhizospheric Communities. In *Microbial Metatranscriptomics Belowground 2021* (pp. 615-630). *Springer, Singapore*.
- **Bhatt MD**, Vaishnav Pujan (2021) Exploring the Potential of Below Ground Microbiome: Mechanism of Action, Applications, and Commercial Challenges, In *Microbial Metatranscriptomics Belowground 2021* (pp. 615-630). *Springer, Singapore*.
- Butani N, **Bhatt MD**, Parmar P, Jobanputra J, Dobriyal A.K, Bhatt D\* (2021) Nanoemulsions of Plant-Based Bioactive Compounds. *Nanotechnological Approaches in Food Microbiology* (pp. 1-40). *CRC Press*
- Bhatt D, Nath M, Sharma M, **Bhatt M D**, Bisht D S, Butani N V (2020), Role of growth regulators and phytohormones in overcoming environmental stress In *Protective Chemical Agents in the Amelioration of Plant Abiotic Stress Biochemical and Molecular Perspectives*, Edited by Roychoudhury A and Tripathi, D K. (pp 254 – 279) *John Wiley & Sons Ltd*.
- Bhatt D and **Bhatt M D** (2020), Strigolactones in overcoming environmental stresses In *Protective Chemical Agents in the Amelioration of Plant Abiotic Stress Biochemical*

and Molecular Perspectives, Edited by Roychoudhury A and Tripathi, D K. (pp 327 – 341) *John Wiley & Sons Ltd.*

- Bhatt D, **Bhatt M D**, Nath M, Dudhat R, Sharma M, Bhatt D S (2020), Application of nanoparticles in overcoming different environmental stress In Protective Chemical Agents in the Amelioration of Plant Abiotic Stress Biochemical and Molecular Perspectives, Edited by Roychoudhury A and Tripathi, D K. (pp 636 – 655) *John Wiley & Sons Ltd.*
- Bhatt D, Sharma M, Nath M, **Bhatt MD** & Badoni S (2018), Brassinosteroid induced signalling is a complex interplay of ROS, NADPH oxidase and MAPK mediated biotic and abiotic stress acclimation in plants. ISBN 9780128164518, Published in Plant Signalling Molecules (pp 407-416) *Elsevier*
- Nath M, Bhatt D, **Bhatt MD**, Prasad R, Tuteja N (2018), Microbe-Mediated Enhancement of Nitrogen and Phosphorus Content for Crop Improvement In Crop improvement. In microbial biotechnology (pp. 293–304) *Elsevier*.
- **Bhatt, MD** & Bhatt D (2015), Engineering of Microbes for Heavy Metal Tolerance: An Approach for Bio remediation Technology. In *Handbook of Research on Uncovering New Methods for Ecosystem Management through Bioremediation* (pp 73-91) *IGI Global*.

### Conferences & Training:

- Attended **IIMA Executive Development Programme on Agriculture Input Marketing at IIM Ahmadabad**, 15-20 January, 2018.
- Presented Research Paper entitled **Comparative analysis of green method and chemical method for synthesis of copper nanoparticles followed by their characterization and physiological effects on growth of Cicer arietinum L. (Chick pea) seedlings** in national conference on Recent Trends in Pure and Applied Science on 24 Feb 2019.
- Abstract published in **4<sup>th</sup> Uttarakhand State Science & Technology Congress-2009, Nov 10-12, 2009, Pantnagar, pp-80**. Shalini Phartyal, **Megha Pandey**, Anjana Srivastava and Anita Sharma (2009). “Dissipation and Degradation of Lindane by Actinomycetes Isolated from contaminated sites of Pantnagar University Campus”
- **Presented poster at Asian PGPR Society-Indian Group Meeting**, University of Hyderabad, India (5 Dec, 2011)
- **Successfully completed National Training Programme on Data Mining & Computational Methods In Bioinformatics in Microbial Research** under NABG in ICAR at NBAIM- March 4-15, 2011
- **Participated in Organic Farming Lecture Series** by eminent Prof. Padroust M. Fried, Agroscrop, Switzerland at GBPUA & T, Pantnagar, October 11-20, 2010.

- **Attended one day seminar on Management of Stress & Anger for Employed Women** under Faculty of Family & Community Sciences, MS University of Baroda, Vadodara, January 31, 2015.

**Awards/Recognitions:**

- Secured 2<sup>nd</sup> rank in State level Ph.D. Entrance test of GBPUA &T Pantnagar.
- Cleared **Uttarakhand State Eligibility Test (U.SET) for Lectureship** conducted by Kumaun University Nainital, Uttarakhand in the field of Life Science
- Received University Fellowship during Master's and Ph.D. Programme.
- Got campus placement during final year of my doctoral program at GBPUA&T, Pantnagar and was selected as Deputy Manager at Gujarat State Fertilizers & Chemicals Ltd