



Name of Faculty: Dr. Govind Gupta
Designation: Assistant Professor
Email: govind.g@sageuniversity.edu.in;
govind_gupta72@yahoo.com
Contact No: +91 9303224315

Educational Qualification:(Ph.D /PG/ UG) PhD

Total Experience:

Academic : 7 yrs | Industry : 0 yrs | Research : 6 yrs

Areas of Interest: Agricultural Microbiology, Plant Microbe Interaction, Bioremediation etc

Brief Profile:

Dr. Govind Gupta is an Agriculturalist and Environmentalist Researcher related with Plant-Microbe Interaction, has expertise in various Microbiological and Biotechnological techniques. At present, Dr. Govind Gupta is running a project entitled Flower Cultivation and Dehydrated Floral Craft, funded by NABARD, Madhya Pradesh (Amount Rs. 15,60,000/-).

Dr. Gupta has successfully completed two Research projects entitled Sustainable Management of Agriculture in the Climate Change Era through Awareness of Science and Technology in Phanda and Berasia Block of Bhopal, funded by NABARD, Madhya Pradesh, India. This project also encouraged 40 other Farmers/Rural Youths for preparation of vermicompost in their own agricultural field other than selected beneficiaries.

Research publications in International Journal: 16

Total Citation Index: 1600 (h-index: 12, i10-index: 12)

1. Rai, A. K., Al Makishah, N. H., Wen, Z., Gupta, G., Pandit, S., & Prasad, R. (2022). Recent Developments in Lignocellulosic Biofuels, a Renewable Source of Bioenergy. *Fermentation*, 8(4), 161.
2. Srivastava S., Bhargava A., Atanasov A. G., Tripathi B. N., Jamla M., **Gupta G.**, Siddiqui S., Singh V. K., Singh N. P. and Gupta V. K. (2021). Biological nanofactories: using living forms for metal nanoparticle synthesis. *Mini Reviews in Medicinal Chemistry* 21(2):245-265. doi: 10.2174/1389557520999201116163012.
3. Parihar S.S., Sahu S., **Gupta G.** and Prakash A. (2021) *Ganoderma mbrekobenum*: A pharmacologically important mushroom naturally growing in Raisen, India. *Current Trends in Biotechnology and Pharmacy*, 15(4), 383–389. <https://doi.org/10.5530/ctbp.2021.4.39>.
4. Chaudhary T., Dixit M., Gera R., Shukla A.K., Prakash A. **Gupta G.** and Shukla P. (2020). Techniques for improving formulations of bioinoculants: a review. *3Biotech*, Springer 10 (5):199. doi: 10.1007/s13205-020-02182-9.
5. **Gupta G.**, Chaturvedi, H., Snehi, S.K. and Prakash, A. 2019. Role of Plant Growth Promoting Rhizobacteria (PGPR) for Improvement of Sustainable Agriculture. *Plant Growth Promoting Microorganisms: Microbial Resources for Enhanced Agricultural Productivity*. Ed. Niranjan S. Raj and A. C. Udayashankar, Nova Publisher, USA, pp 67-86.
6. Tripathi P., **Gupta G.** and Chauhan P.S. 2019. Role of Phytomedicine in Diabetes and Cardiovascular Diseases. *New Look to Phytomedicine*, Ed. Mohd Sajjad Ahmad Khan, Iqbal Ahmad, Debprasad Chattopadhyay, Elsevier Academic Press, pp 409-433. DOI: <https://doi.org/10.1016/B978-0-12-814619-4.00017-3>.
7. Sharma S., Sharma V. K., Misra S., **Gupta G.**, Dwivedi D., Singh B.N. and Chauhan P.S. 2019. Anti-inflammatory Properties of Herbs in Oral Infection. *New Look to Phytomedicine*, Ed. Mohd Sajjad Ahmad Khan, Iqbal Ahmad, Debprasad Chattopadhyay, Elsevier Academic Press, pp 143-157. DOI: <https://doi.org/10.1016/B978-0-12-814619-4.00006-9>.
8. **Govind Gupta**, Shailendra Singh Parihar and Vinod Singh 2018. Plant growth promoting *Pseudomonas* strain and their role in crop improvement in conference proceeding of Medicinal Plants, Environment, Biotechnology, Ayush, and Biomedicine for Human, Health and Sustainable Development, pp 29-32.
9. Ahirwar, N.K., **Gupta, G.**, Singh, R. and Singh, V., 2018. Assessment of present heavy metals in Industrial affected Soil Area of Mandideep, Madhya Pradesh, India. *Int. J. Curr. Microbiol. App. Sci*, 7(1), 3572-3582.

10. Snehi, S.K., Parihar, S.S., **Gupta, G.**, Purvia, A.S. and Singh, V., 2018. Molecular identification of a Begomovirus associated with yellow vein net disease on *Malva parviflora* L. from India. *Microbiology: Current Research*, 2(2), 24-29.
11. **Gupta, G.**, Snehi, S.K. and Singh, V., 2017. Role of PGPR in Biofilm Formations and Its Importance in Plant Health. *Biofilms in Plant and Soil Health*, Ed. of Iqbal Ahmad and Fohad Mabood Husain, Wiley Online Library, p. 27-42.
12. Snehi, S. K., Purvia, A. S., Parihar, S. S., **Gupta, G.**, Singh, V., and Raj, S. K. 2017. Overview of Begomovirus Genomic Organization and its impact. *International Journal of Current Research* 9(11), 61368-61380.
13. Snehi, S.K., Purvia, A.S., **Gupta, G.**, Parihar, S.S. and Singh, V., 2017. Molecular detection of a Begomovirus species on Chaya (*Cnidocolus acotifolia*) from Madhya Pradesh, India which is distantly related to Sri Lankan cassava mosaic virus. *Virology*, 6, p.1.
14. Ahirwar, S.S., Gupta, M.K., **Gupta, G.** and Singh, V., 2017. Screening, Isolation and Identification of *Lactobacillus* Species from Dental Caries of Children. *Int. J. Curr. Microbiol. App. Sci*, 6(1), pp.497-503.
15. Ahirwar, S.S., Gupta, G. Singh, V. and Gupta, M.K., 2017. Comparative study of *Lactobacillus* species in dental caries active subjects. *Asi J Sci Technol*, 8(10), pp. 5986-5991.
16. Ahirwar, N.K., **Gupta, G.**, Singh, R. and Singh, V., 2016. Isolation, identification and characterization of heavy metal resistant bacteria from industrial affected soil in central India. *Int J Pure Appl Biosci*, 4, pp.88-93.
17. Snehi, S.K., Parihar, S.S., **Gupta, G.**, Singh, V. and Purvia, A.S., 2016. Molecular Detection and Identification of Begomovirus Isolate on Tomato from Central Region of India. *J Plant Pathol Micro*, 7, p.389.
18. Chaturvedi, H., Singh, V. and **Gupta, G.**, 2016. Potential of bacterial endophytes as plant growth promoting factors. *J Plant Pathol Microbiol*, 7(376), p.2.
19. Snehi, S.K., Parihar, S.S., **Gupta, G.**, Singh, V., Raj, S.K. and Prasad, V., 2016. The current status of new emerging begomovirus diseases on *Jatropha* species from India. *J Plant Pathol Microbiol*, 7(357), p.2.
20. Singh, V., Parihar, S. S., **Gupta, G.**, Khare, M. 2016. Molecular characterization of *Ganoderma lucidum* and analysis of few secondary metabolites use as antimicrobial activity. *International Journal of Pharma & Bio Sciences*. Spl Ed. (Int-BIONANO-AMITY University, Gwalior (M.P.): 83-90.
21. **Gupta, G.**, Parihar, S.S., Ahirwar, N.K., Snehi, S.K. and Singh, V., 2015. Plant growth promoting rhizobacteria (PGPR): current and future prospects for development of sustainable agriculture. *J Microb Biochem Technol*, 7(2), pp.096-102 (**Highly cited article, 411 citations**).
22. Ahirwar, N.K., **Gupta, G.** and Singh, V., 2015. Biodegradation of Chromium Contaminated Soil by Some Bacterial Species. *International Journal of Science and Research*, 4, pp.1024-1029.

23. Ahirwar, N.K., **Gupta, G.**, Singh, V., Rawley, R.K. and Ramana, S., 2015. Influence on growth and fruit yield of tomato (*Lycopersicon esculentum* Mill.) plants by inoculation with *Pseudomonas fluorescens* (SS5): Possible role of plant growth promotion. *Int. J. Curr. Microbiol. App. Sci*, 4(2), pp.720-730.
24. Singh, S., **Gupta, G.**, Khare, E., Behal, K.K. and Arora, N.K., 2014. Phosphate solubilizing rhizobia promote the growth of chickpea under buffering conditions. *Int. J. Pure Appl. Biosci*, 2, pp.97-106.

Papers presented in International Conferences:

1. **Gupta G. 2022.** Bio-inoculants for Agricultural Sustainability: A Boon for Farmers in International Conference on Environmental Sustainability & Biotechnology: opportunities & challenges at Goa, India. from November 16-19, 2022.
2. **Gupta G.** and Prakash. A. 2020. Plant growth promoting bacterial strains: An approach to use as bioinoculants for sustainable development in agriculture in International conference on "Environmental Sustainability: Innovations, Translational Dimensions and Way Forward" organized by Babasaheb Bhimrao Ambedkar University, Lucknow (U.P.) during 11-12 February 2020.
3. **Govind Gupta**, Ankita Raghuvanshi and Anil Prakash 2019. Role of Plant Growth Promoting Bacterial Strain Based Bioinoculant for Sustainable Development in maize (*Zea mays* L.) crop in the International conference on Advances in Sustainable Agriculture: Bioresources, Biotechnology and Bioeconomy held on 29-30 November 2019 organized by Mansarovar Global University, Bhopal, Madhya Pradesh, India.
4. **Govind Gupta**, Shailendra Singh Parihar, Sunil Kumar Snehi and Anil Prakash 2018. Role of Plant Growth Promoting *Pseudomonas* Strain for Sustainable Development in Agriculture in 1st North Indian Science Congress NISC - 2018 & International Conference on Science and Technology for Sustainable Future on 10th & 11th January, 2018 organized by Babasaheb Bhimrao Ambedkar University (A Central University), Lucknow, Uttar Pradesh, India.

Papers presented in National Conferences:

1. **Gupta G. 2023.** Role of Endophytic Bacteria for Development of Sustainable Agriculture in 1 National Conference on Biotechnology for Better Tomorrow (NCBTBT-2023) held at Taywade College, Mahadula-Koradi, Nagpur on January 22, 2023
2. **Govind Gupta** 2019. Information and activities of Microbiology department in two days National conference on Microbes for clean environment held on 29-30 September 2019 organized by Taywade college, Mahadula-Koradi, Nagpur & Microbiologist's Society, India.

3. **Govind Gupta** and Anil Prakash 2019. Characterization of Agriculturally Important Bacteria for Development of Sustainable Agriculture in First Research Seminar held on 18th-19th March 2019 organized by IQAC-Barkatullah University, Bhopal, Madhya Pradesh, India.
4. **Govind Gupta** and Anil Prakash 2018. Characterization and Impact of *Pseudomonas* Strain and Its Impact for Plant Health in Frontiers in Biofertilizers and Biopesticides Conference held on 09th & 10th February, 2018 organized by Rajmata Jijau Shikshan Prasarak Mandal's Arts, Commerce and Science College, Pune, India.
5. **Govind Gupta**, Kumari Soni and Vinod Singh 2013. Assessment of Bacterial Profile from MIC affected areas in Bhopal, National Conference on Recent Advances in Biotechnology & Nanobiotechnology, Bionano, Organized by Department of Biotechnology, Amity University, Gwalior (M.P.) from October 29 – 30, 2013.
6. Monika Dhurvey, **Govind Gupta** and Vinod Singh 2013. Isolation & Identification of Microorganisms from Spoiled Canned Foods, National Workshop on Climate Change & Management of Water Bodies, Organized by Department of Environmental Sciences & Limnology (DESL), Barkatullah University, Bhopal, from 16th - 17th August 2013.

Patents:

Govind Gupta, Ujwal Virkhare, Prajwal Nimbalkar, Yogita Chouhan, and Sujal Modanwal 2024. Portable IoT based Plant Health Monitoring System awarded on July 4, 2024 (Application No. 416949-001).

International/National Conference & Workshops Attended: 06

1. **Govind Gupta** and Anil Prakash 2019. Multifaceted Plant Growth Promoting Strains as Better Option for Growth Enhancement of Pea (*Pisum sativum*) in 5th National Asian PGPR conference for Sustainable and Organic Agriculture Eco-friendly Bio-Innovations for Integrated Crop Management Soil Health & Environment from 23-25 February 2019.
2. **Govind Gupta** and Anil Prakash 2018. Plant Growth Promoting Bacterial Strains: An Environmentally Friendly Approach for the Development of Sustainable Agriculture in India International Science Festival 2018 under the theme of Climate change and sustainability – Biodiversity & Environment from October 5- 8, 2018.
3. **Govind Gupta**, Shailendra Singh Parihar, Sunil Kumar Snehi and Anil Prakash 2017. Role of Plant Growth Promoting *Pseudomonas putida* Strain for Improvement of Sustainable Agriculture in 58th Annual Conference of Association of Microbiologists of India & International Symposium on Microbes for Sustainable Development: Scope & Applications (MSDSA-2017) from November 16 - 19, 2017 organized by Babasaheb Bhimrao Ambedkar University (A Central University), Lucknow, Uttar Pradesh, India.

4. **Govind Gupta**, Sunil Kumar Snehi, Anil Prakash and Vinod Singh 2017. Role of Plant Growth Promoting *Pseudomonas* Strain as Better Option for Implications of Growth and Plant Health for Improvement of Sustainable Agriculture, International conference on Technological Advancements in Environment Management from March 1-2, 2017 organized by Career College, Bhopal (M.P.).
5. **Govind Gupta**, Sunil Kumar Snehi, Anil Prakash and Vinod Singh 2016. Co-inoculation of Plant Growth Promoting *Pseudomonas* and *Bacillus* strain as integrated approach for growth enhancement of wheat (*Triticum aestivum* L.), International Conference on Recent Advances in Biotechnology & Nanobiotechnology, Bionano-2016, Organizing by Department of Biotechnology, Amity University, Gwalior (M.P.) from February 10 – 12, 2016.
6. **Govind Gupta** and Vinod Singh 2014. In Vitro Study of Antagonistic Property of *Pseudomonas* strains, National Workshop on “Innovation & Technology Transfer to Industries: Role of Universities, organized by Babasaheb Bhimrao Ambedkar University, Lucknow (U. P.).
7. **Govind Gupta**, Ekta Khare and Naveen Kumar Arora 2009. Role of Bacterial Indole Acetic Acid on Growth Promotion of *Pisum sativum*. “50th Annual Conference of Association of Microbiologist of India, NCL, Pune.

FDP Attended: Nil

Awards/Recognitions: 06

- **Best Teacher Award** for Madhya Pradesh State from Microbiologist Society India for the session 2021-22 received in the 1 National Conference on Biotechnology for Better Tomorrow (NCBTBT-2023) held at Taywade College, Mahadula-Koradi, Nagpur on January 22, 2023.
- **Second Best Poster Award** received in International Conference on Recent Advances in Science and Engineering -2022 organized by SAGE University, Bhopal on 23 April, 2023.
- **Young Scientist Award** received in International conference on “Environmental Sustainability: Innovations, Translational Dimensions and Way Forward” organized by Babasaheb Bhimrao Ambedkar University, Lucknow (U.P.) during 11-12 February 2020.
- **Best Poster Award** received in 5th National Asian PGPR conference for Sustainable and Organic Agriculture Eco-friendly Bio-Innovations for Integrated Crop Management Soil Health & Environment from 23-25 February 2019.
- Awarded **fellowship for training of young scientist (FTYS)** given by M. P. Council of Science & Technology, Bhopal, Madhya Pradesh in the year 2017.
- Awarded **fellowship for training of young scientist (FTYS)** given by M. P. Council of Science & Technology, Bhopal, Madhya Pradesh in the year 2016 for three months

which was availed under the guidance of Dr. Puneet Singh Chauhan, Senior Scientist, Division of Plant Microbe Interaction, CSIR-National Botanical Research Institute (NBRI), Lucknow Uttar Pradesh, India.

- Awarded **fellowship for training of young scientist (FTYS)** given by M. P. Council of Science & Technology, Bhopal, Madhya Pradesh in the year 2015 for six months which was availed under the guidance of Dr. Naveen Kumar Arora, Associate Professor, Department of Environmental Microbiology, Babasaheb Bhimrao Ambedkar University, Lucknow Uttar Pradesh, India.

Workshops/Seminars/Conference Organized:

1. Organized **Skill Based Training on Vermicompost Preparation** for the Farmers of Phanda Block, Bhopal on 3rd August 2021.
2. Organized **Five Days Value Added Course on How to Handle the Waste Generated near by US** from 17th May 2021 to 21st May 2021 via online zoom meeting.
3. Organized **Seven Days National SAGE Summer School on Recent Advances on Microbial Bioinoculants for Improvement of Agricultural Sustainability** from 26th May to 30th May 2020 (**224 Participants were benefitted**).
4. Organized **Three Days Summer School** entitled “**Recent Advances on Organic Farming for Development of Sustainable Agriculture**” from 18 July 2020 to 20 July, 2020 (**190 Participants were benefitted**).
5. Organized **International E-conference on “Recent Advances in Agriculture & Environment for Improvement of Agricultural Sustainability”** from 27th August to 29th August 2020 in Association with Asian PGPR Society for Sustainable Agriculture (APSSA)-India Chapter via online Zoom App (**200 Participants were benefitted**).
6. Organized **SES REC workshop** on 22/12/2020 delivered by Ms. Khyati Dhurve, MGNCRE Coordinator, moderated by Dr. Govind Gupta, SAGE University, Bhopal (**60 Participants were benefitted**).
7. Organized **National SAGE Workshop on Residue Free Agriculture and Organic Farming Scope & Prospects in Era of COVID -19** on 22nd, 24th and 26th

September 2020 delivered by Dr. Prashant Naikwadi, Dr. Harihar Kausadikar & Shri Sanjay Deshmukh via online Zoom App **(45 Participants were benefitted)**.

Membership of Professional Bodies:

- Life Member of **Association of Microbiologists of India** (AMI - Registration No. 791-2008).
- Life Member of **Microbiologist Society, India** (Registration No. MS /LM/441).
- Life Member of **Environmental Sustainability** (Membership No. 025).

Other Achievements:

Dr. Govind Gupta established fruitful research collaborations with academic and industrial research Institutions *viz.* Asian PGPR Society for Sustainable Agriculture, Society for Environmental Sustainability, Barkatullah University Bhopal, University of Patanjali, CSIR-NBRI, Lucknow, Uttar Pradesh and Agromaxx Industry, Bhopal.