

CURRICULUM VITAE

MR. VISHAL GUPTA
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DEPARTMENT OF BOTANY, Mahatma Gandhi Post Graduate
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ACADEMIC QUALIFICATION

SR NO	DEGREE	INSTITUTION	YEAR
1-	B.sc	BHU	2015
2-	M.sc	BHU	2017

ADDITIONAL QUALIFICATION

- CSIR NET (Life Sciences)
- GATE (Life Sciences)

AREA OF SPECIALIZATION

- Plant Pathology, Herbal Pesticide.

EXPERIENCE

- 3 Year Work Experience as Project JRF and SRF in SERB Project entitled “Optimization and mechanistic investigation of nanoencapsulated plant essential oils in combination with suitable adjuvants against biodeteriorating fungi and aflatoxin B₁ contamination in raw material of herbal drug” in Department of Botany BHU.

RESEARCH PUBLICATIONS

- "Fabrication of volatile compounds loaded-chitosan biopolymer nanoparticles: Optimization, characterization and assessment against *Aspergillus flavus* and aflatoxin B₁ contamination." *International Journal of Biological Macromolecules* 165 (2020): 1507-1518. (Akshay Kumar, Vishal Gupta, Prem Pratap Singh, Anupam Kujur & Bhanu Prakash*)
- "Encapsulation of *Bunium persicum* essential oil using chitosan nanopolymer: Preparation, characterization, antifungal assessment, and thermal stability." *International journal of biological macromolecules* 142 (2020): 172-180. (Amrita Yadav, Anupam Kujur, Akshay Kumar, Prem Pratap Singh, Vishal Gupta & Bhanu Prakash*)
- "Assessing the antifungal and aflatoxin B₁ inhibitory efficacy of nanoencapsulated antifungal formulation based on combination of *Ocimum* spp. essential oils." *International Journal of Food Microbiology* 330 (2020): 108766. (Akshay Kumar, Prem Pratap Singh, Vishal Gupta & Bhanu Prakash*)

- "Untangling the multi-regime molecular mechanism of verbenol-chemotype *Zingiber officinale* essential oil against *Aspergillus flavus* and aflatoxin B1." *Scientific reports* 11, no. 1 (2021): 1-20. (Prem Pratap Singh, Atul Kumar Jaiswal, Akshay Kumar, Vishal Gupta & Bhanu Prakash*)
- "Botanicals for Sustainable Management of Stored Food Grains: Pesticidal Efficacy, Mode of Action and Ecological Risk Assessment Using Computational Approaches." *Anthropocene Science* (2022): 1-18. (Bhanu Prakash*, Prem Pratap Singh, Akshay Kumar & Vishal Gupta)
- "Recent advancement in functional properties and toxicity assessment of plant-derived bioactive peptides using bioinformatic approaches." *Critical Reviews in Food Science and Nutrition* (2021): 1-19. (Prem Pratap Singh, Vishal Gupta & Bhanu Prakash*)

BOOK CHAPTERS

- "Application of nanotechnology to boost the functional and preservative properties of essential oils." In *Functional and preservative properties of phytochemicals*, pp. 241-267. Academic Press, 2020. (Akshay Kumar, Priyanka Singh, Vishal Gupta, and Bhanu Prakash)
- "Prospects of omics technologies and bioinformatics approaches in food science." In *Functional and Preservative Properties of Phytochemicals*, pp. 317-340. Academic Press, 2020. (Bhanu Prakash, Prem Pratap Singh, Akshay Kumar, and Vishal Gupta.)
- "Recent advancement in plant disease management." In *Food Security and Plant Disease Management*, pp. 1-18. Woodhead Publishing, 2021. (Prem Pratap Singh, Akshay Kumar, Vishal Gupta & Bhanu Prakash*.)
- "Food and human health: An outlook of the journey of food from hunger satisfaction to health-promoting agent." In *Research and Technological Advances in Food Science*, pp. 1-30. Academic Press, 2022. (Bhanu Prakash*, Prem Pratap Singh, Akshay Kumar & Vishal Gupta.)

Conference

- International Virtual Conference on Emerging Trends in Food Protectants and Infestation Control (ET-FPIC 2021) on topic "Efficacy of *Zingiber officinale* essential oil against toxigenic isolate of *Aspergillus flavus* and elucidation of its mode of action" and won the Second Prize Award organised by Pesticide Science Study Group (PSSG) & Food Protectants and Infestation Control Department, CSIR-Central Food Technological Research Institute, Mysuru – 570 020, Karnataka, India.

- Virtual International Conference on Microbiology (ICMBB2021) on topic “MYCOFLORA ANALYSIS AND TOXIN ESTIMATION IN HERBAL COMMODITIES”. Conference is organized by the Institute of Microbiology under the Academic Sciences of Uzbekistan and Microbiological Society of Uzbekistan, in collaboration with the American Society of Microbiology, Asian PGPR Society, and Society for Environmental Sustainability.

SEMINAR & WEBINAR

- International Seminar on “ Ecosystem functioning in Anthropocene- ISEFA 2022” held at the Centre of advanced study in Botany , BHU Varanasi.
- International Webinar on Prospects of Natural Products on Human health in current scenario organized by Department of Botany, MMV, BHU, Varanasi.
- International Webinar on “Dynamics of Microbes and Plants (WDMP-2021)”. The Webinar organized by the Centre of Advanced Study in Botany, Institute of Science, Banaras Hindu University, Varanasi, India.

Workshop and online certificate course

- AICTE Training and Learning (ATAL) Academy Online Elementary FDP on "Rhizospheric engineering: Revisiting the Microbe-Plant Synergy to Mitigate Plant Nano Toxicology" at Motilal Nehru National Institute of Technology Allahabad.
- Participating in the Four Week International Online Certificate Course on “MEDICAL BACTERIOLOGY (Phase IV)” organized by the Department of Microbiology, Sacred Heart College (Autonomous), Tirupattur, Tamil Nadu, India in association with Microbiologists Society, India and Laboratory of Chemical and Biological Analysis (LAQB), Western Rio Janeiro State University (UEZO), Rio de Janeiro, Brazil.
- Participating in the Four Week International Online Certificate Course on “MICROBIAL INOCULANTS TECHNOLOGY (Phase I)” organized by the Department of Microbiology, Sacred Heart College (Autonomous), Tirupattur, Tamil Nadu, India in association with Microbiologists Society, India and Laboratory of Chemical and Biological Analysis (LAQB), Western Rio Janeiro State University (UEZO), Rio de Janeiro, Brazil.