



Faculty Profile Ram Lal Anand College, University of



Title	Prof.	Name :	Vandana Gupta	
Department	Microbiology			
Designation	Professor			
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Institutional Web page	https://www.rlacollege.edu.in/pdf-profile/microbiology/Microbiology_Vandana%20Gupta_jun-2023.docx.pdf			
Google Scholar ID	https://scholar.google.com/citations?user=dR1O9IEAAAAJ&hl=en&oi=ao			
Research Gate ID	https://www.researchgate.net/profile/Vandana-Gupta-10			
ORCID ID	https://orcid.org/0000-0003-4785-5615			
Scopus ID	57207396291			
Researcher ID	AAT-7491-2020			
Vidwan ID	https://vidwan.inflibnet.ac.in/profile/289034			
Educational Qualifications				
Degree	Institution			Pass percentage/ Year
Ph.D Microbiology	Department of Microbiology, University of Delhi			1993-1999
M.Sc Microbiology	Department of Microbiology, University of Delhi			73.6% / 1991-1993

B.Sc (Hons) Microbiology	Swami Shraddhanand College, University of Delhi	69.7% / 1988-1991			
Permanent/ Temporary/ Contractual/ Adhoc Teaching Experience					
Designation	Institution	Duration	From	To	Nature/ pay scale
Professor	Ram Lal Anand College, University of Delhi	5 years, 5 months	15.10.2020	Till date	Permanent/
Associate Professor	Ram Lal Anand College, University of Delhi	9 Year, 10 Months, 26 Days	18.11.2010	15.10.20 20	Permanent
Reader	Ram Lal Anand College, University of Delhi	3 Years	18.11.2007	17.11.10	Permanent
Lecturer in senior grade	Ram Lal Anand College, University of Delhi	5 years	22.06.2002	17.11.20 07	Permanent
Lecturer	Ram Lal Anand College, University of Delhi	9 Years	31.08.1998	21.06.20 02	Permanent
Industry Experience (If any)					
Designation	Company	Duration	From	To	
Research Experience					
Designation	Institution		From	To	
Post Doctorate Research Fellow	Genetic Immunotherapy Lab. Division of John Hopkins in Singapore		2002-2005		
Administrative Assignments					
Current: Secretary Staff Council RLAC Convener: Workload and academic affairs committee					

Coordinator: Research and IPR cell

Member Secretary: Institutional Ethics Committee

Previous

Nodal Officer: Examinations (May 2021, onwards)

Coordinator: COVID Task Force

Successfully discharged duties as Convener, Co-convener or Member of various committees in the college for last 25 years of service. Worked as Deputy Superintendent of examinations for more than 14 semesters

Community Project: Launched an online social awareness campaign on HPV vaccination “UDISHA: A new dawn” in Feb 2021 as there is little or no awareness regarding the availability of HPV vaccine and the cancers it protects against and who and when to take it.

https://docs.google.com/document/d/15U-O918fgFdnk_Z141n7_Ytstg6vPbt8DQMAoQzNljg/edit?usp=sharing

Areas of Interest / Specialisation

1. Currently pursuing research in Bioinformatics with specialization in virtual screening of drugs combined with drug repositioning approach against SARS-CoV-2, HCV, Chikungunya, MRSA, *E coli*, and other ESKAPE pathogens. I am also exploring the prevalence of silent antibiotic resistance genes among the environmental isolates (NCT region) of bacterial pathogens of concern.
2. My areas of interest encompasses Virology, Immunology, Medical Microbiology, environmental microbiology the subjects that I am teaching for many years.
3. I am thoroughly trained in Microbiology with rigorous practical training in all microbiological techniques, cell culture, protein expression and purification, construction of DNA vaccines, PCR, validation of vaccines in mouse model, ELISA, ELISPOT, cytotoxicity assays, Baculovirus expression systems, Confocal Microscopy etc.
4. Specialized in research on Ectomycorrhizal Fungi during Ph.D.

Title: “Selection of Ectomycorrhizal Fungi for Large scale Inoculum Production and Their Physiological Characterization” Under the guidance of Prof. T Satyananrayana, Department of Microbiology, University of Delhi. Year of Award: 1999

Summary:

Ectomycorrhizal fungi (EMF) promote plant growth and help in the reforestation and reclamation of land rendered unsuitable for plantation due to high salinity, high or low pH, heavy metal contamination, draught conditions etc. My PhD work focused on selecting suitable EMF for Indian plains based on their temperature, pH, and salinity tolerance. Selected EMF strains were further characterized for their valuable properties such as inorganic and organic Phosphate solubilization through production of organic acids and phosphatases, Heavy metal tolerance, Polyamine biosynthesis profiling, siderophore production etc. The selected strains of *Pisolithus* and *Laccaria lacatta* were used for mass-production in lab-scale fermenter.

5. Attained experience in construction and validation of DNA vaccine against SARS virus during Postdoctoral fellowship at Singapore (2002-2005).

Subjects Taught

Immunology, Virology, Medical Microbiology, Microbial Ecology, Bioinformatics, Microbial Diversity and Scope of Microbiology

Research Guidance (if any)

MSc Dissertations

1. M.Sc BIOTECHNOLOGY dissertation entitled “**Virtual Screening Of Novel Inhibitors Against Methicillin-Resistant *Staphylococcus aureus*: A Drug Repurposing Approach**” by Kritika Seth, Manav Rachna International Institute of Research and Studies, Faridabad (Submitted in July 2019)
2. MSc. Biotechnology dissertation entitled “***E. coli* gyrase, an important target for novel therapeutics: *in silico* drug repurposing approach**” by Rakhi Chandran submitted to the Department of Biotechnology, School of Sciences, Noida International University, Gautam Budh Nagar, Uttar Pradesh (Submitted in July 2020)

3. M. Sc. Microbiology dissertation entitled “A Molecular docking study targeting SARS-CoV-2 3CLpro: An <i>In-silico</i> drug repurposing approach” by Shubham Sachdeva from the Department of Biosciences, Jamia Millia Islamia, New Delhi (Submitted in June 2021) Guided three Summer training students of M.Sc Bioinformatics from Maharishi Dayanand University, Rohtak, Haryana Guiding over 30 students of B.Sc (Hons) Microbiology under College Research Grant Scheme and other research projects Encourage and support students for higher education through counseling and writing letters of recommendations.
Research Projects (Major Grants/Research Collaboration)
05 projects with funding of 23 lacs from DU; 05 projects completed;
Completed Projects :
1. College Research Grant Repurposing drugs through phenotypic screening against Methicillin Resistant <i>Staphylococcus aureus</i> (MRSA)”Project Code No. CRG /RLA/203/2023, Jul 2023-Jun 2024 (Rs. 1,00,000/-) 2. College Research Grant ”Combating Methicillin resistant <i>Staphylococcus aureus</i> (MRSA): A drug repurposing approach” Jan 2020-Dec2022 (Rs. 50,000) 3. University of Delhi Innovation Project Code: RLA 103 “Delineation of Groundwater Potential and potable quality in and around South Campus (University of Delhi) ridge area”, from Mar 2012-May 2013 (10 lac) 4. University of Delhi Innovation Project Code: RLA 202 “Structure Based Virtual Screening of Novel Inhibitors of Hepatitis C virus” from Nov. 2013 to March 2015 (6 lac) 5. University of Delhi Innovation Project Code: Project Code: RLA 304 “Dissemination of Antibiotic Resistance among Airborne Bacteria and its Public Health Implications” 2015-2016 (5.5 lac)
Publications
1. Singh G, Vishwakarma P, Raj A, Rani S, Ghorai SM, Mudgal P, Shivashimpi GM, Tandon S, Soni H, Gupta V, (2026) Biological activity and preliminary safety assessment of the nitrobenzoate derivative methyl 3-hydroxy-4-methoxy-2,6-dinitrobenzoate (MMDB): Antimicrobial, redox and developmental toxicity profiles in vitro and in zebrafish. The Microbe (ELSEVIER), vol 10:100694, ISSN 2950-1946, https://doi.org/10.1016/j.microb.2026.100694 (https://www.sciencedirect.com/science/article/pii/S2950194626000403)

2. Singh G, Patwa N, Soni H, Tandon S, **Gupta V** (2025), A Systematic Computational Drug Repurposing Approach Identifies Gamma-Oryzanol and Azilsartan as Promising Plasmeprin II Inhibitors for Malaria Treatment, In Silico Research in Biomedicine, 100088, ISSN 3050-7871, <https://doi.org/10.1016/j.insr.2025.100088>. Elsevier
3. Singh, G., Hossain, M. A., Al-Fahad, D., **Gupta, V.**, Tandon, S., Soni, H., Narasimhaji, C. V., Jaremko, M., Emwas, A. H., Anwar, M. J., & Azam, F. (2024). An in-silico approach to target multiple proteins involved in anti-microbial resistance using natural compounds produced by wild mushrooms. *Biochemistry and biophysics reports*, 40, 101854. <https://doi.org/10.1016/j.bbrep.2024.101854> ISSN 2405-5808, IF 2.5; **SCOPUS indexed**
4. Agarwal S, Tomar N, Makwana M, Patra S, Chopade BA, **Gupta V.** (2024) Air pollution, dysbiosis and diseases: pneumonia, asthma, COPD, lung cancer and irritable bowel syndrome. *Future Microbiol.* 19(17), 1497–1513, doi:10.1080/17460913.2024.2401263; ISSN: 1746-0913 IF 2.2; **SCOPUS indexed**
5. Ahmed Md H, Singh G, M Castrosanto, A Hossain, Md. MI Rifat, S H Rima, **V Gupta**, RK. Kesharwani, M Jaremko, A-H Emwas, P Alam, and Azam F (2024) A Structure-Based Drug Design Approach for the Identification of Antiviral Compounds Targeting the Chikungunya Virus RdRp Protein, *Chemical Physics Impact*, 8;100450, <https://doi.org/10.1016/j.chphi.2023.100450> ISSN 2667-0224 IF 4.24 **SCOPUS indexed**
6. Ahmed Md H, Samia NSN, Singh G, **Gupta V**, Mishal MFM, Hossain A, Suman KH, Raza R, Dutta AK, Labony MA, Sultana J, Faysal EH, Alnasse SM, and Azam F (2024). An immuno-informatics approach for annotation of hypothetical proteins and multi-epitope vaccine designed against the Mpox virus. *Journal of Biomolecular Structure and Dynamics* 42(10):5288-5307 <https://doi.org/10.1080/07391102.2023.2239921>; ISSN :1538-0254, IF 5.23; **SCOPUS indexed**
7. Bhat S, Saha S, Garg T, Sehrawat H, Chopade BA, **Gupta V** (2023). Insights into the challenging multi-country outbreak of Mpox: a comprehensive review. *J Med Microbiol.* 72(6). <https://doi.org/10.1099/jmm.0.001725>. PMID: 37378642. IF 2.4, ISSN: 0022-2615; **SCOPUS indexed**
8. Gupta I, Baranwal P, Singh G, Gupta V. 2023, Mucormycosis, past and present: a comprehensive review. *Future Microbiol.* 18:217-234. <https://doi.org/10.2217/fmb-2022-0141>. IF 2.2, ISSN: 1746-0913; **SCOPUS indexed**
9. Kapoor, S., Singh, A., & **Gupta, V.** (2023). In silico evaluation of potential intervention against SARS-CoV-2 RNA-dependent RNA polymerase. *Physics and chemistry of the earth* (2002), 129 (2023) 103350, ISSN 1474-7065, <https://doi.org/10.1016/j.pce.2022.103350> IF 3.98; **SCOPUS indexed**
10. Shahanshah MFH, Anvitha D, **Gupta V.** In-silico screening to delineate novel antagonists to SARS-CoV-2 nucleocapsid protein. *Phys Chem Earth* (2002). 2022; 127:103188. doi: 10.1016/j.pce.2022.103188. ISSN: 1474-7065. IF 3.98, **SCOPUS indexed**

11. **Gupta V** (2022). Reply to letter entitled ‘Diagnosis of COVID-19: hemagglutinin-esterase gene is used for molecular assays?’, Expert Review of Molecular Diagnostics, Feb 2022; 22:2, 137-137, DOI: 10.1080/14737159.2022.2021369; ISSN: 1473-7159; IF 4; **SCOPUS indexed**
12. Dwivedi V, Gupta RK, Gupta A, Chaudhary VK, Gupta S, **Gupta V**. “Repurposing Novel Antagonists to p7 Viroporin of HCV Using *in silico* Approach” 2022, Letters in drug design and discovery; 19(11); 969-981. DOI: 10.2174/1570180819666220124112150 **Online ISSN** 1875-628X, IF 1.23. **SCOPUS indexed**
13. Singh G, Soni H, Tandon S, Kumar V, Babu G, **Gupta V**, Chaudhuri (Chattopadhyay) P. Identification of natural DHFR inhibitors in MRSA strains: Structure-based drug design study, Results in Chemistry Vol 4, 2022, 100292, ISSN 2211-7156, IF 2.56; **SCOPUS indexed**
<https://doi.org/10.1016/j.rechem.2022.100292>
14. Sharma B, Shahanshah MFH, Gupta S, Gupta V. (2021) Recent advances in the diagnosis of COVID-19: a bird's eye view. Expert Rev Mol Diagn. 21(5):475-491. doi: 10.1080/14737159.2021.1874354. PMID: 33423567, ISSN: 1473-7159, **IF 4 SCOPUS indexed**
15. Singh A, Gupta V. SARS-CoV-2 therapeutics: how far do we stand from a remedy? *Pharmacol Rep.* 2021;73(3):750-768. doi:10.1007/s43440-020-00204-0 ISSN: 2299-5684, IF 3.74; **SCOPUS indexed**
16. Singh A, Gupta L, **Gupta V**. Heterologous Protection to COVID-19 with BCG Vaccine: Deciphering the Reality Using Meta-Analysis Approach. J Immunological Sci. (2020); 4(4): 34-40, [DOI:10.13140/RG.2.2.19809.74080](https://doi.org/10.13140/RG.2.2.19809.74080) . ISSN: 2578-3009 **Peer reviewed**
17. Kaur SP, **Gupta V** (2020) SARS-CoV-2 Vaccine: Reconnoitering the Prospects. Vaccine Res Dev 1(1):1-5. [DOI:10.36959/669/745](https://doi.org/10.36959/669/745) **Peer reviewed**
18. Dwivedi V, Ayyagari A, Chandran R, Diwan P, Gupta S, Gupta V. Repurposing Potential of Diminazene Aceturate as an Inhibitor of the E. coli DNA Gyrase B. J Biomed Res Environ Sci. 2020 Oct 31; 1(6): 263- 270. doi: 10.37871/jbres1153, Article ID: JBRES1153; ISSN 2766-2276 **Peer reviewed**
19. Chandran R, Ayyagari A, Diwan P, Gupta S, Gupta V. *In silico* Screening of Approved Drugs to Describe Novel *E. coli* DNA Gyrase A Antagonists. J Biomed Res Environ Sci. 2020 Oct 26; 1(6): 233-240. doi: [10.37871/jbres1148](https://doi.org/10.37871/jbres1148), Article ID: JBRES1148; ISSN 2766-2276 **Peer reviewed**
20. Kaur SP, **Gupta V**. COVID-19 Vaccine: A comprehensive status report. Virus Res. 2020, 288:198114. doi: 10.1016/j.virusres.2020.198114. Epub 2020 Aug 13. PMID: 32800805; PMCID: PMC7423510. ISSN: 0168-1702, Impact factor 2.75, **UGC care and SCOPUS listed**
21. Dashora V, Singh A, Chaudhary Y, Kaur S, Nain VK, John S, Sharma SK, Gupta V, Gupta RK. Impact of Sanitary Landfills on Microbiological Activity and Water Quality Index of Groundwater in Delhi, India. Sambodhi 43:04 (IV) July-September (2020), (**UGC Care Journal**) ISSN: 2249-6661 impact factor –not known

22. Nandi I, Gupta A, Chaudhary VK, **Gupta V**, Gabrani R, Gupta S, “Expression, purification and functional characterization of recombinant hypervariable region (HVR) of Chikungunya virus nsP3 protein” **3 Biotech.** 2019 27 May; 9(6):235 **2190-572X / 2190-5738; UGC care and SCOPUS listed** <https://doi.org/10.1007/s13205-019-1759-8>, IF: 3.1
23. Agarwal G, Gupta S, Gabrani R, Gupta A, Chaudhary VK, **Gupta V**, “Virtual screening of inhibitors against Envelope glycoprotein of Chikungunya Virus: a drug repositioning approach” **Bioinformation** 2019 Jun; 15(6): 439-447. doi: 10.6026/97320630015439 ISSN 0973-2063 (online) **UGC care listed. IF 1.9**
24. Ghildiyal R, Gupta S, Gabrani R, Joshi G, Gupta A, Chaudhary VK, **Gupta V** (2019) Chikungunya Polymerase: A Potential Target for Inhibitors- in Silico Study” **VirusDisease** 2019 Sep; 30(3): pp 394–402 doi: [10.1007/s13337-019-00547-0](https://doi.org/10.1007/s13337-019-00547-0) IF: 2.46, **UGC care listed ISSN: 2347-3517,**
25. Kaur J., Kaur S., Dashora V., Chaudhary Y., Nijhawan P., Saini S., Dabas M., Sharma K., Aggarwal R., **Gupta V.**, Singh R., Pande P., Sharma S.K., John S., GuptaRK. Microbiological and Physico-Chemical Quality of Groundwater at a Resettlement Colony, Madanpur Khadar in Delhi, India. DU Journal of Undergraduate Research and Innovation Volume 1, Issue 3 pp 26-38, Aug 2015 (**ISSN: ISSN 2395 – 2334**)
26. Rajasekharan, S., Rana, J., Gulati, S., **Gupta,V.**, Gupta, S., Neuroinvasion by Chandipura virus, *Acta Tropica* (2014) 135:122-126, <http://dx.doi.org/10.1016/j.actatropica.2014.03.028> (impact factor: 2.8) **UGC care and SCOPUS listed ISSN: 0001-706X**
27. Rajasekharan S, Rana J, Gulati S, Sharma S K, **Gupta V** & Gupta S (2013). Predicting the host protein interactors of Chandipura virus using a structural similarity–based approach. (ISSN 2049-632X) **Pathogens and Disease**, 69(1):29-35. doi: 10.1111/2049-632X.12064. (impact factor: 2.53) **UGC care and SCOPUS listed**
28. Sarethy, I.P., Saxena, Y., Kapoor, A., Sharma, M., Sharma, S.K., **Gupta, V.**, and Gupta S (2011). “Alkaliphilic Bacteria: Applications In Industrial Biotechnology”. **Journal of Industrial Microbiology & Biotechnology**. 38 (7), 769-790, [Indexed in SCOPUS, Impact factor: **3.49**] **UGC care and SCOPUS listed; Print ISSN 1367-5435**
29. **Gupta V**, Tabiin TM, Sun K, Chandrashekar A, Anwar A, Yang K, Chikhlikar P, Salmon J, Brusic V, Marques ETA, Kellathur SN, August TJ (2006). **SARS coronavirus nucleocapsid immunodominant T-cell epitope cluster is common to both exogenous recombinant and endogenous DNA-encoded immunogens.** *Virology* 347(1):127-39. doi: 10.1016/j.virol.2005.11.042 IF: 3.616 **UGC care and SCOPUS listed; ISSN. 0042-6822**
30. Sun K, Anwar A, **Gupta V**, Tabiin MT, Atkinson R, Chandrasekarn A, August TJ. SARS coronavirus nucleocapsid protein (NP) gene, complete cds, May 2003, Accession ID AY307165, Source Genbank License Genbank TOS
31. **GuptaV**, Satyanarayana T (2002). Secretion of siderophores by ectomycorrhizal fungi and their likely role in iron nutrition of plant. *Ind. J. Microbiol.* 42; 107-110 (impact factor: 2.1); **ISSN: 0973-7715 SCOPUS indexed**

32. Gupta, V., Kumar S. and Satyanarayana, T. 2002. Heavy metal tolerance of ectomycorrhizal fungi and utility of metal tolerant EM fungal strains in reclaiming wastelands created by mining operations. In Bioinoculants for sustainable agriculture and forestry ; Proceedings of National Symposium held on Feb. 16 - 18, 2001 (eds. S.M. Reddy, S.R. Reddy, M.A.S. Chary and S. Girisham), Scientific Publ., Jodhpur, pp. 27-36. ISBN 9788172333072
33. Garg, S., Gupta, V. and Satyanarayana, T. 1998. Biofertilizer for multipurpose tree species. Proc. Natl. Symp. (Karad, Dec. 28-29, 1997), 72-82.
34. Garg S, **Gupta V** and Satyanarayana T (1995). Submerged cultivation of Ectomycorrhizal fungus *Laccaria laccata*. Proceedings of the IIIRD Asian conference on Mycorrhiza. (ed. Adholeya, A. and Singh, S.) pp. 500-505.
35. **Gupta V**, Garg S and Satyanarayana T (1994). Selection of suitable Ectomycorrhizal strain for large scale inoculum production. proceedings of the 'National Symposium on Frontiers in Microbial Technology' (Ed. S.M. Reddy) pp. 53-59, Scientific publishers, Jodhpur, India.

Patents

Patent Granted: No. 418733 "Method of screening inhibitors against Hepatitis C virus" on March 30, 2017 (application no. 201711011516) and complete specification filed in March 2018 (reference no. R20181009113), Date of publication: **05/10/2018**; Date of Grant : 20 Jan 2023

Chapters in books and e-chapters (Published)

1. Singh, H., Bhat,S., Verma,S., Verma, N., **Gupta, V.** (2026), Secondary Metabolites from Microorganisms: A Boost to the Textile Industry; chapter16 pg 201-211, In "Industrial Applications of Microbial Secondary Metabolites-Diversity, Classification and sources' (the "Work"), edited by Neeraj Verma and Deepak Mishra to be published by Taylor and Francis, USA; DOI: 10.1201/9781003409137-16
2. Makwana, M., Kapoor, S., **Gupta, V.** (2026), Microbial Secondary Metabolites as Bio-stimulants and Bio-protectants in Sustainable Agriculture ; chapter 6 pg 61-74; In "*Industrial Applications of Microbial Secondary Metabolites-Diversity, Classification and sources*" (the "Work"), edited by Neeraj Verma and Deepak Mishra to be published by Taylor and Francis, USA; DOI: 10.1201/9781003409137-6
3. Agarwal, S., Priya, S., Verma, N., **Gupta, V.** (2026), Microbial Secondary Metabolites: Recent Advances in Nanomicrotechnology chapter 18 pg _____, In "Industrial Applications of Microbial Secondary Metabolites-Diversity, Classification and sources' (the "Work"), edited by Neeraj Verma and Deepak Mishra to be published by Taylor and Francis, USA; DOI: 10.1201/9781003409137-18
4. Verma, N., Verma, S., Verma, A., Gupta, K.M., Bhatt, K., **Gupta, V.** (2025). As(III) and Cr(VI) Remediation by Genetically Engineered Microorganisms: An Overview of Principles and Criteria of Fundamental Processes. Ch15; 331-358, In: Singh, V., Mishra, V., Rai, S.N., Shah, M.P. (eds) Heavy Metal Contamination in Wastewater and Its Bioremediation by Microbial-Based Approaches.

Advances in Wastewater Research. Springer, Singapore. Print ISBN 978-981-96-7877-8, Online ISBN 978-981-96-7878-5 https://doi.org/10.1007/978-981-96-7878-5_15

5. Gupta, V., Rathore, H.S., Himanshi, Ankush, K., Ahmad-Lone, S., Chopade, B.A., John, S.M., Verma, N. (2025). Heavy Metal Removal by Bacteria: Mechanism and Challenges. Ch14; 309-330, In: Singh, V., Mishra, V., Rai, S.N., Shah, M.P. (eds) Heavy Metal Contamination in Wastewater and Its Bioremediation by Microbial-Based Approaches. Advances in Wastewater Research. Springer, Singapore. Print ISBN 978-981-96-7877-8, Online ISBN 978-981-96-7878-5 https://doi.org/10.1007/978-981-96-7878-5_14
6. Kapoor, S., Verma, S., Sneha Priya, Gupta, A., Gupta, V., (2025) **Algal Secondary Metabolites: An Overview** In *“Industrial Applications of Microbial Secondary Metabolites-A Modern Approach”*, edited by Neeraj Verma and Deepak Mishra Chapter 16; 197-212, published by Taylor and Francis, USA; ISBN 9781032515496; DOI: 10.1201/9781003408833-16
7. Warghane, A., Vaishna M, Saini LS, Bawankar R, Gautam S, Thakkar J, Bhatt V, Chaudhari, RG, Chopade BA, **Gupta V**, Shri M, (2025). **Dialogue in the Dirt: Plant–Microbe Interaction in Soil**. In: Saraf, M., Goswami, D., Maheshwari, D.K. (eds) Climate Change and Soil Microorganisms for Environmental Sustainability. Microorganisms for Sustainability, vol 28. Ch 4: pg 67-108, Springer, Singapore. ISBN 978-981-96-3424-8 https://doi.org/10.1007/978-981-96-3425-5_4
8. Vandana G, Patra S, Verma N, John S, Aishani G, Chopade BA, (2025) **“The Future of Biocontrol by Plant-Microbe Nexus: Novel Strategies and Applications”**, in Climate Change and Soil Microorganisms for Environmental Sustainability, Ed. Saraf M, Goswami D, Maheshwari DK, published by Springer Singapore, Vol 28; Ch 17, pg 403-427; DOI : 10.1007/978-981-96-3425-5, ISBN 978-981-96-3424-8
9. Mohan L and **Gupta V**, (2024), **An Overview of Mycorrhizae, Nature's Own Biofertilizers in vol 4**. Industrial Applications of Soil Microbes: Eds. *Neeraj Verma, Shampi Jain and Ashutosh Gupta*, pg 1-16; DOI: 10.2174/9789815124996124040004, Bentham Science Publishers ISBN: 978-981-5136-00-5
10. Shreya Kapoor, Nidhi Verma, Harsh Charak, Kaushiki Dutta, Aishani Gupta, and **Vandana Gupta**, 2024, Flexible Fungal Materials: An Industrial Perspective in Microbial Approaches for Sustainable Green Technologies, ed. J Shankar, P Verma, MP Shah, Chapter 8, 154-175, Taylor and Francis publications; DOI: 10.1201/9781003407683-8; eBook ISBN 9781003407683 (SCOPUS)
11. Sandeep Patra, Nidhi Verma, Sneha Priya, Aishani Gupta, and **Vandana Gupta**, 2024, Microbes as Biocontrol Agents for Sustainable Development, in Microbial Approaches for Sustainable Green Technologies, ed. ed. J Shankar, P Verma, MP Shah; Chapter 10, 196-218, Taylor and Francis DOI: 10.1201/9781003407683-10 eBook ISBN 9781003407683 (SCOPUS)
12. Sharma B, Sehrawat H and **Gupta V** (2024) Advances in regenerative medicines based on mesenchymal stem cell secretome" in "Computational Biology for Stem Cell Research" ed by Raghav Pawan, Chapter 14, Pages 175-185, ISBN 9780443132223, <https://doi.org/10.1016/B978-0-443-13222-3.00008-3>. Elsevier, Academic Press, SCOPUS

13. D Anvitha, Raina S, Chhabra L, Singh G and **Gupta V** (2024). Overview of the genome editing in rice and its implications" in CRISPR-Cas System in Translational Biotechnology ed. Swati Joshi, Digvijay Verma, Ravi Kr Gupta. Chapter 13, pg 221-235, DOI: <https://doi.org/10.1016/B978-0-323-91808-4.00007-9> Elsevier, ISBN: 978-0-323-91808-4 SCOPUS
14. Hooda S, George AJ, Sharma V, **Gupta V**. " **Mycotoxins: Detection Methods and Strategies for Management**" (2023 April) Chapter 19, pgs 509-530; Book entitled "Fungal Resources for Sustainable Economy" ed Singh I et al. 2023 Publisher Springer International DOI: <https://doi.org/10.1007/978-981-19-9103-5>. ISBN 978-981-19-9103-5
15. Singh A, Kaur SP, Shahanshah MFH, Sharma B, Chaudhary VK, Gupta S, **Gupta V**. "COVID-19 Vaccination: A Clinical perspective" (2023 Jan) Chapter 22; in the textbook 'Coronavirus Disease 2019 (COVID-19): A Clinical Guide' ed. **Ali Gholamrezanezhad**, Pgs 472-493; publisher Wiley-USA. ISBN: 978-1-119-78973-4, <https://doi.org/10.1002/9781119789741.ch22>
16. Kaur SP, Srivastava T, Sharma A, Gupta S, Chandra NS, **Gupta V**. 2023. Industrial applications of soil microbes: Production of enzymes, organic acids, and biopigments in Industrial Applications of Soil Microbes: Volume 2, Chapter 4, pgs 56-84, Eds. *Neeraj Verma, Shampi Jain and Ashutosh Gupta*, Bentham Science Publishers ISBN: 978-981-5050-27-1 DOI: [10.2174/9789815050264123020007](https://doi.org/10.2174/9789815050264123020007)
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18. Jain, S., George, A.J., Sharma, V., Singh, G., **Gupta, V. (2022)**. Messenger RNA Therapeutics: Start of a New Era in Medicine.(Chapter 3)In: Jurga, S., Barciszewski, J. (eds) Messenger RNA Therapeutics. RNA Technologies, vol 13. pgs 41-71; Springer, Cham. https://doi.org/10.1007/978-3-031-08415-7_3, Print ISBN 978-3-031-08414-0.
19. Singh A, Kapoor S, Bhatia P, Gupta S, Chandra NS, **Gupta V**. 2022. Role of Soil Microbes in the Sustainable Development: Nutrient Transformation, Bioremediation and Biodeterioration in Industrial Applications of Soil Microbes Vol 1: Eds. *Neeraj Verma, Shampi Jain and Ashutosh Gupta*, Pgs:151-179; Bentham Science Publishers ;ISBN: 978-981-5039-96-2 (Print); ISBN: 978-981-5039-95-5 (Online) DOI:[10.2174/97898150399551220101](https://doi.org/10.2174/97898150399551220101)
20. Shahanshah M F H, Sehrawat H, Wijewardana C, Pal S, Gupta A, Diwan P, Gupta S, **Gupta V**. 2021, "Recent Advances in Chikungunya Virus Therapeutics: An Overview", **In** Chikungunya Virus: Epidemiology, Transmission and Therapeutics ed Phillip Galvan, pg 57-82, Nova Science Publishers, Inc. USA; ISBN 978-1-53619-978-9
21. Sehrawat H, Shahanshah MFH, Wijewardana C, Pal S, Chaudhary VK, Gupta S, **Gupta V**. 2021, "Recent Progress on Immunotherapy and Immunoprophylaxis of Chikungunya Virus", **In** Chikungunya Virus: Epidemiology, Transmission and Therapeutics ed Phillip Galvan, pg 83-119, Nova Science Publishers, Inc. USA; ISBN 978-1-53619-978-9

22. Ghildiyal R., Prakash V., Chaudhary V.K., **Gupta V.**, Gabrani R. (2020) Phytochemicals as Antiviral Agents: pp 279-295 Recent Updates. In: Swamy M. (eds) Plant-derived Bioactives. Springer, Singapore, http://doi.org/10.1007/978-981-15-1761-7_12, **Print** ISBN 978-981-15-1760, **Online** ISBN 978-981-15-1761-7,
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25. Gupta S, **Gupta V**, Aggarwal S, Diwan P. Bacteria and their cell organisation. for virtual Learning centre, Delhi University for the undergraduate program (2015) ISSN No. 2349-154X
26. **Gupta V**, Aggarwal S, Diwan P, Gupta S. Bacterial cell envelop. for virtual Learning centre, Delhi University for the undergraduate program (2015) ISSN No. 2349-154X
27. Sarethy IP, Gupta S, **Gupta V. Bacterial Systematics.** for virtual Learning centre, Delhi University for the undergraduate program (2015) ISSN No. 2349-154X
28. **Gupta V** and Gupta S (2008). Diversity of Microbial World, **National Science Digital Library. Link : <http://nsdl.niscare.res.in/handle/123456789/137>.**
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30. **Gupta V**, Satyanarayana T and Garg S (2000). General aspects of mycorrhiza. In 'Mycorrhizal Biology'. (ed. Mukerji, K.G., B.P. Chamola and Jagjit Singh), 'Kluwer Academic/Plenum Publishers', New York, Boston, Dordrecht, London, Moscow. Chapter 2; Pp.27-44. ISBN 10: **1461369150**; ISBN-13 : **978-1461369158**
31. **Gupta V** and Satyanarayana T (2000). Molecular Genetics of Ectomycorrhizal Fungi. In 'Mycorrhizal Biology'. (ed. Mukerji, K.G., B.P. Chamola and Jagjit Singh), 'Kluwer Academic/Plenum Publishers', New York, Boston, Dordrecht, London, Moscow. Chapter 8; Pp.119-134. ISBN 10: **1461369150**; ISBN-13 : **978-1461369158**
32. **Gupta V** and Satyanarayana T (1996). Molecular and general Genetics of Ectomycorrhizal fungi. In 'Concepts in Mycorrhizal Research' (ed. Mukerji, K.G.) pp. 343-361, Kluwer Academic Publishers', Netherlands. pp-333-346. <https://doi.org/10.1007/978-94-017-1124-1> **ISBN** 978-0-7923-3890-1; **eBook** ISBN 978-94-017-1124-1

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Conference Organisation/ Presentations

Events Organized

1. Coordinated one week FDP on “ Essential Skills for Genomics” from 4-11 Aug 2023 in Collaboration with Delhi School of Skill Enhancement and Entrepreneurship Development (IoC-DSSEED), Centre for Innovation in Infectious Disease Research, Education and Training (CIIDRET), GAD-TLC, SGTB Khalsa College, Ram Lal Anand College, University of Delhi.
2. Seminar on Financial independence by Mr. Raghuveer Yadav, vice president, International Institute of Venture Capital, private equity, mergers and acquisitions on 24 Mar 2023.
3. Webinar “Intellectual property rights: a plethora of opportunities” on 17 Feb 2023, Speaker Ms. Prerna Vij, Patent paralegal (Borden Ladner Gervais LLP, Vancouver, Canada)
4. Health Camp (in collaboration with Action Cancer Hospital) on 10 Jan 2023, more than 100 participants
5. One week national workshop on “Hands-on workshop on basic techniques in Microbiology”, in collaboration with CIIDRET and DSEED under 100 days Training and skill enhancement festival from 17-23 Dec 2022.
6. Seminar on cancer awareness (in collaboration with Action Cancer Hospital) on 10 Jan 2023 “Prevention and early detection of cancer” by Dr. Rakesh Jain, senior consultant, surgical oncology and “Common Gynaecological Problem-awareness and perception regarding Breast and cervical cancer” by Dr. Shruti Bhatia senior consultant, Gynae oncology, Action Cancer Hospital (75 participants)
7. Self-defense workshop for girls (in collaboration with Delhi Police) 10-14 Oct 2022 (25 participants).

Invited Talks, Resource person, invited chairperson, Conference Paper presentations (Oral)

1. Paper presentation titled “**Virulence, mechanisms of Antimicrobial Resistance and novel drug targets in MRSA**” (Kirtika Seth, Tanvi Rastogi, Avantika Dubey, Vandana Gupta) at International Seminar on Current Trends in Life Sciences, 3-4 April 2025, Organized by Amity Institute of Biotechnology, Amity University Madhya Pradesh, Gwalior In Association with The National Academy of Sciences, India, (NASI), Bhopal Chapter & Society of Life Sciences, Prayagraj (**Awarded the best paper presentation award**) , presented on April 3 (10 min)
2. Paper presentation titled “**Post COVID-19 Effects on Cardiovascular Health: A Review**” (Vandana Gupta, Sneha Priya, Sakshi Verma, Devansh Kumar, Gagandeep Singh, Sunaina Bokolia) at International Seminar on Current Trends in Life Sciences, 3-4 April 2025, Organized by Amity Institute of

Biotechnology, Amity University Madhya Pradesh, Gwalior In Association with The National Academy of Sciences, India, (NASI), Bhopal Chapter & Society of Life Sciences, Prayagraj, **presented on April 3 (10 min)**

3. Paper presentation titled “**Antimicrobial Resistance in Klebsiella: An Escalating Challenge and Possible Remedies**” (Niyati Sabharwal, Nitya Tongaria, Vandana Gupta) at National Conference: Health, Gender and the Environment: Intersections towards meeting the SDGs, April 4 2025, organized by the Institute of Home Economics, University of Delhi.
4. Paper presentation on 10 Mar 2025 titled “**Microbial Biofertilizers for Sustainable Agricultural Practices**” at International conference (9-10 Mar 2025 at Vigyan Bhawan) on Indigenous Knowledge Systems and Sustainable Development organized by Shaikshik Foundation and Shivaji College, University of Delhi
5. Invited Faculty talk on “**Gut Microbiome and Aging**” (20 Sep 2024; 15 min) at the Longevity Asia virtual symposium organized by Rhenix LifeSciences and the International Institute for Population Sciences during 20th-21st September 2024.
6. Invited as Chairperson of the **technical session IV (21 sep 2024)** at the Longevity Asia virtual symposium organised by Rhenix LifeSciences and the International Institute for Population Sciences during 20th-21st September 2024.
3. Shreyas Bhat, Rakshita Yadav, Bhawna Sharma, Swati Mishra, Vandana Gupta (2024). Immunotherapy of Cancers and Infectious Diseases through Nanovaccines: Problems and Prospects in the 3rd International Conference on Recent Advances in Biotechnology and Nanobiotechnology (Int-BIONANO-2024) during 5-6 March 2024 Amity Institute of Biotechnology Amity University Madhya Pradesh, Gwalior (**Conference Paper Presentation on 6 March 2024; 20 min.**)
7. Resource person: One week national workshop on “Hands-on workshop on basic techniques in Microbiology”, in collaboration with CIIDRET and DSEED under 100 days Training and skill enhancement festival from 17-23 Dec 2022.
8. Invited talk on “GROWTH AND SUSTAINABILITY: OUR INNOVATIONS” in National Seminar on “Vishwa Guru Bharat: Use of Indian Knowledge in Developing Interventions and Innovations for Contemporary World from 13-14 December 2022. Organized by Aryabhata College, University of Delhi in association with Bharatiya Shikshan Mandal, Delhi Prant and ICSSR
9. Invited talk on ""SARS-CoV-2 proteases: exploring their suitability as targets for novel therapeutics"" in the **International e-workshop on Exploring resources for COVID-19 Research**" held from July 26th - July 31, 2021.
10. Resource Person: “Ghost writing and Determining Authorship “ certificate course on “Science Writing & Research Ethics” 13 July-7 Aug 2020 by Ram Lal Anand College
11. Invited talk on “Drug repurposing and applications of Bioinformatics tools in drug discovery” Conference on Translational (Engineering) and Regenerative Medicine (CoTERM 2020), organized

by Department of Biotechnology and Microbiology, Noida International University, Gautam Buddha Nagar (21-23 Jan 2020)

12. Presented paper on “IMPACT OF SANITARY LANDFILLS ON MICROBIOLOGICAL ACTIVITY AND WATER QUALITY INDEX OF GROUNDWATER IN DELHI, INDIA” in the First Online International Conference on “Continuity, Consistency and Innovation in Applied Sciences and Humanities” (ICCIASH-2020) organized by Department of Science and Humanities ,St. Martin’s Engineering College, Dhulapally, Secunderabad, T.S, India on 13th& 14th August 2020.
13. Resource Person: Webinar 30th April, 2020 entitled “ Molecular Docking: A Powerful Tool for Research at College Level” organized by Department of Microbiology, Ram Lal Anand College, University of Delhi
14. Invited Talk on “Bioinformatics in Drug Discovery: HCV a case study” on the occasion of Golden Jubilee Celebration of Swami Shraddhanand College, Department of Microbiology on 4 March 2017.
15. **Gupta V**, Garg S, and Satyanarayana T. (1994). Selection of suitable Ectomycorrhizal strain for large scale inoculum production. ‘National Symposium on the Frontiers in Microbial Technology’ organized by Botany Department Kakatiya University, Warangal, from Nov 11-13, 1994 at Warangal, A.P., India

Presentations: International

Oral presentations in Virtual “International Conference on Covid-19” organized by the Great Zimbabwe University on the 29th - 30th of July 2021

1. Sharma V, George AJ, **Gupta V**. A Molecular Docking Analysis of Non-Structural Protein 13 of SARS-CoV-2
2. Shahanshah MFH, D. Anvitha, **Gupta V**. In-silico Screening to Delineate Novel Antagonist to SARS-CoV-2 Nucleocapsid Protein
3. Banerjee S and Gupta V. M Protein of SARS-CoV-2: A Potential Drug Target
4. Srivastava T, Kaur SP, **Gupta V**. Identification of SARS-CoV-2 RNA Capping Inhibitors using Computational Molecular Docking Studies Based Virtual Screening: A Drug Repurposing Approach
5. Kapoor S, Singh A, **Gupta V**. In-silico evaluation of potential intervention against SARS-CoV-2 RNA-dependent RNA Polymerase
6. Sehrawat H, Pal S, **Gupta V**. In-silico analysis to discover SARS-CoV-2 Nsp7-8 inhibitors
7. Wijewardana C, **Gupta V**. Investigation into potential inhibitors of SARS CoV-2 NSP9 : A molecular docking study
8. Bhatia P and **Gupta V**. Computational Identification of SARS-CoV-2 Nsp3 Antagonists.

9. Sachdeva S and **Gupta V**. Molecular docking study targeting SARS- CoV-2 3CL_{pro}: An In-silico drug repurposing approach
10. Sachdeva S and **Gupta V**. Phytochemicals as SARS-CoV-2 M_{pro} inhibitors
11. Sharma B and **Gupta V**. Virtual screening of approved drugs using SARS-CoV-2 Nsp1 as target
12. Baranwal P, Shahanshah MFH, **Gupta V**. Potential Antivirals targeting Spike Glycoprotein of SARS-CoV-2.
13. Gandhi P, Sahu S, Lohia GK, Dwivedi V, Pratibha, Kaur K, Rajat, Niladari, Godhara SK, Diwan P, Gupta RK, Gupta S, **Gupta V** (2019). Structure based virtual screening of novel inhibitors against non-structural protein NS5B of Hepatitis C virus at International conference on Biosciences and Biotechnology held at Jaypee Institute of Information Technology, Noida from 31st – 2nd Feb, 2019 (**Poster presentation**)
14. Agarwal G., Verma V., Gupta S., **Gupta V.**, Gabrani R., Gupta A., Chaudhary V. K.,“ Purification of domains of Chikungunya virus envelope protein” in proceedings of International Conference on Advances in Biosciences and Biotechnology (ICABB) JIIT, Noida, Asian Journal of Pharmaceutical and Clinical Research, vol. 12:2, pp.156, Feb 1-3, 2019 (**Poster presentation**)
15. Ghildiyal R., Gupta S., **Gupta V.**, Gupta A., Chaudhary V.K., Gabrani R.,“Identification of host interactors of Chikungunya virus non-structural protein 1” in proceedings of International Conference on Advances in Biosciences and Biotechnology (ICABB) JIIT, Noida, Asian Journal of Pharmaceutical and Clinical Research, vol. 12:2, pp.71, Feb 1-3, 2019 (**Oral presentation**)
16. Agarwal G, **Gupta V**, Gabrani R, Gupta A, Chaudhary VK, Gupta S (2018). **Virtual Screening of Chikungunya Virus Envelop Glycoprotein Inhibitors** at International Conference on Advances in Biosciences and Biotechnology (ICABB-2018)” organized by Department of Biotechnology, Jaypee Institute of Information Technology, Noida from 1st -3rd Feb, 2018 (**oral presentation**)
17. Nandi I, Gabrani R, Gupta A, Chaudhary VK, **Gupta V**, Gupta S (2018). **Expression, Purification and Functional Characterization of Recombinant Hyper Variable Region (HVR) of Chikungunya Virus NSP3 Protein** at International Conference on Advances in Biosciences and Biotechnology (ICABB-2018)” organized by Department of Biotechnology, Jaypee Institute of Information Technology, Noida from 1st -3rd Feb, 2018 (**oral presentation**)
18. Ghildiyal R, **Gupta V**, Gabrani R, Gupta A, Chaudhary VK, Gupta S (2018). **Chikungunya Polymerase: A Potential Targets for Inhibitors- in silico Study** at International Conference on Advances in Biosciences and Biotechnology (ICABB-2018)” organized by Department of Biotechnology, Jaypee Institute of Information Technology, Noida from 1st -3rd Feb, 2018
19. Rana J, Rajsekharan S, Nandi I, Gupta A, Chaudhary VK, **Gupta V**, Gupta S (2018). **Analysis of Aedes aegypti Interactome Mediated by Arboviruses** at International Conference on Advances in Biosciences and Biotechnology (ICABB-2018)” organized by Department of Biotechnology, Jaypee Institute of Information Technology, Noida from 1st -3rd Feb, 2018

20. Lohia G, Diwedi V and **Gupta V.** (2015). “In silico screening for inhibitors of nonstructural Protein 3 (NS3) of Hepatitis C Virus: a potential target for therapy” at International conference on “Antimicrobial Resistance, Novel Drug Discovery and Development: Challenges and Opportunities” organized by SRM University Haryana from March 2-3, 2015.
21. Sahu S, Gandhi P, Diwan P, Gupta RK, Gupta S , **Gupta V** (2015). Drug Repurposing: Virtual Screening of Inhibitors for NS2 Protease of HCV. Poster no. BIMG16 at 56th Annual Conference of Association of Microbiologists of India (AMI-2015) & International Symposium on “Emerging Discoveries in Microbiology” held from 8th to 10th Dec. 2015 at JNU.
22. Chaudhary Y, Kaur S, Dashora V, Kaur J, Nijhawan P, **Gupta V**, Pande P, Sharma S, John S, Gupta RK. Microbiological Quality of Groundwater and Associated Factors at A Resettlement Colony, Madanpur Khadar in Delhi, India. Poster no. EMP81 at 56th Annual Conference of Association of Microbiologists of India (AMI-2015) & International Symposium on “Emerging Discoveries in Microbiology” held from 8th to 10th Dec. 2015 at JNU.
23. Kaur S, Chaudhary Y, Dashora V, Kaur J, Nijhawan P, **Gupta V**, Pande P, Sharma S, John S, Gupta RK. Assessment of Microbiological and Hydrogeochemical Quality of Groundwater in South West Zone of Delhi and adjoining areas. Poster no. EMP102 at 56th Annual Conference of Association of Microbiologists of India (AMI-2015) & International Symposium on “Emerging Discoveries in Microbiology” held from 8th to 10th Dec. 2015 at JNU.
24. Dashora V , Singh A , Nain VK, Chaudhary Y, Kaur S , **Gupta V** , Pande P, Sharma S, John S , Gupta RK. Impact of Sanitary Landfills on Microbiological Activity and Water Quality Index of Groundwater in Delhi, India. Poster no. EMP107 at 56th Annual Conference of Association of Microbiologists of India (AMI-2015) & International Symposium on “Emerging Discoveries in Microbiology” held from 8th to 10th Dec. 2015 at JNU.
25. **Gupta V**, Tabiin TM, Sun K, Chandrashekar A, Anwar A, Kellathur SN, August TJ (2004). LAMP targeted SARS coronavirus DNA vaccine. 8th National University of Singapore-National University Hospital (NUS-NUH) Annual scientific Meeting, Oct. 2004.
26. Sun K, Yang K¹, Anwar A, Chandrasekaran A, **Gupta V**, Tabiin TM, August TJ. DNA Vaccine Targeting bcr-abl to Both MHC I and MHC II Antigen Presentation Pathway Induces an Enhanced Protective Immunity Against Chronic Myeloid Leukemia. 8th NUS-NUH Annual scientific Meeting, Oct. 2004.
27. Chandrasekaran, A., Anwar, A., Kai, S., Tabiin, M.T., **Gupta, V.**, Atkinson, R. and August J.T. (2003) Trafficking of severe acute respiratory coronavirus (SARS-coV)-LAMP antigens to MHC II compartments of a SARS coV DNA vaccine. 7th NUS-NUH Annual scientific Meeting, Oct. 2003.

Presentations: National

28. Dwivedi V, Lohia G. Godara SK, Gandotra V, Gupta RK, Gupta S, Gupta D, **Gupta V.** (2015), Viroporin p7 of HCV: potential target for novel therapeutics. 10th Symposium on “Frontiers in Biomedical Research” organized by Dr. BR Ambedkar Centre for Biomedical Research, University of Delhi, 29th to 31st October 2015.

29. DU Innovative Project “Inhibitors against HCV: delineated by in Silico screening” presented at Antardhvani –Feb, 2015, Organized by University of Delhi, Delhi.
30. DU Innovative Project “Virtual Screening of Inhibitors against HCV” presented at Antardhvani –Feb, 2014, Organized by University of Delhi, Delhi.
31. DU Innovative Project “Delineation of Groundwater Potential and Potable Quality in and around South Campus (University of Delhi) Ridge Area” presented at Antardhvani -2013, 22-24th February, Organized by University of Delhi, Delhi.
32. **Gupta V**, Satyanarayana T, and Garg S (1995). Heavy metal tolerance in Ectomycorrhizal fungi. 36th Annual Conference of the Association of Microbiologist of India, Nov. 8-10, Hisar, Haryana, India, pp.235.
33. **Gupta V**, and Satyanarayana T (1996). Production of extracellular enzymes by ectomycorrhizal fungi. ‘National Symposium of fungal Biotechnology’. Osmania University, Hyderabad, India.
34. **Gupta V**, Garg S and Satyanarayana T (1994), Ectomycorrhizal Fungi (poster no. IM50) at 34th conference of AMI at Punjab Agriculture University, Ludhiana.

Awards and Distinctions

1. Awarded “Senior Scientist Award” by Microbiologist Society, India (Reg. No. MAH/4814/SAT) Academic Year 2024-2025 on 10 Dec 2025.
2. Awarded “International Distinguished Women Scientist award” for superior performance in Microbiology Conferred by Center for Professional Advancement, Vijayawada, Andhra Pradesh (8 Mar 2021)
3. Awarded Post-doctoral fellowship: Division of John Hopkins in Singapore, Singapore (2002-2005)
4. Awarded gold medal for standing First in Delhi University during M.Sc.
5. Third position in Delhi University during B.Sc (Microbiology, Honours)
6. Awarded All India Post Graduate Fellowship at M.Sc level

Association With Professional Bodies

1. Life Member of Microbiologist Society of India: Membership no. MS/LM/1372
2. Life member of Association of Microbiologists of India: Membership no. 822 – 1995
3. Life member of International Association of Medical and Pharmaceutical Virologists

Other Activities

I have contributed to the academic and other activities of the college and always eagerly walked that extra mile for the benefit of students and the college community. In addition to the regular teaching mandate, I have trained students in scientific writing and communication as is evident from the publications of research articles, review articles, book chapters etc. in International journals of repute and internationally published books. I also engaged undergraduate students in various research projects of longer as well as short durations. I have responsibly discharged my duties as convener and co-convener of various committees and as nodal officer examination, coordinator Research and IPR cell, Member secretary Institutional ethics committee in addition to various other committees of the college over the years and contributed to the growth of our college to the best of my ability. I am a globally recognized author and researcher in my areas of research with more than **1900 citations and h-index =13 and i10 index=15** (as of Dec 2025).

I am a reviewer of articles for international journals with an impact factor as high as 30 and a regular contributor to the global research in Biological sciences. I am a well-recognized author on COVID-19, with five international publications, 12 international presentations and 3 more publications in the pipeline and worked on SARS DNA vaccine from Dec 2002 to Mar 2005 as an international post-doctoral fellow at Division of John Hopkins, Singapore.

I love to work towards gender sensitization and women empowerment. I also run a social outreach program through an online social awareness campaign on HPV vaccination “UDISHA: A new dawn” since Feb 2021 as there is little or no awareness regarding the availability of HPV vaccine and the cancers it protects against and who and when to take it.

Additionally, I am a Kathak and Indian classical music enthusiast and completed senior diploma in Kathak in 2017.



Vandana Gupta