

Dr. Pooja Gulati

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Academic qualifications

- Ph.D. (Microbiology), University of Delhi South Campus, New Delhi, INDIA, 2002-2007. Thesis entitled “**Molecular characterization of strains of *Y. enterocolitica* isolated from India**”
- M.Sc. (Microbiology), University of Delhi South Campus, New Delhi, INDIA, 1999-2001, **University Gold Medalist**
- B.Sc. (Microbiology), Gargi College, University of Delhi, New Delhi, INDIA, 1996-1999

Awards / Fellowships

- **R&D/Consultancy Project Promotion Incentive, 2025**
- **Research Publication Appreciation Award, 2025,2024,2022**
- **INSA visiting fellow Award 2022** for research and learning Bioinformatics under guidance of Prof. Debasisa Mohanty in National Institute of Immunology, New Delhi
- **DM memorial award** for the best poster in Association of Microbiologists of India AMI 2021
- **Best Oral presentation award** at UGC sponsored National seminar 2017
- **Best Oral presentation award** at NSFGG2016 organized by MDU, 2016
- **Best Poster presentation Award** at International Science Festival (IISF) – Young Scientists’ Conclave (YSC), 2016.
- **DST-FAST track Young Scientist Award 2015**
- **Platinum Jubilee Best Poster Award (AMI-2013)** at 54th annual conference of Association of Microbiologists of India

Research Specialization:

- Microbial Anticancer enzymes as biopharmaceuticals
- Antimicrobial resistance (AMR) and molecular epidemiology of water- and food-borne pathogens

Research Interests:

- Epidemiological investigations on multi-drug resistance *Enterobacteriaceae* and developing microbial source tracking systems for indigenous water bodies
- Development of molecular detection systems for the identification of MDR organisms
- Analysing the potential role of microbial enzymes in therapeutics, particularly in the treatment of cancers
- Developing bioformulations of microbial enzymes for the treatment of cancer

Research Projects Undertaken

- **HSCSIT Project** titled ‘Development of high-throughput and rapid diagnostics for detecting antibiotic resistance in Urinary Tract Infection pathogens’ (Tenure-3years: 2025-2028; Budget: 35 lakhs). **Ongoing**
- **Chaudhry Ranbir Singh Institute of Social and Economic Change (CRSIS&EC) project** entitled ‘Microbial consortia development for sustainable floral waste management’(Tenure- 18 months: 2025-2026; Budget: 3 lakhs). **Ongoing**
- **CM’s Fellowship (Haryana State Higher Education Council) project** entitled ‘Detection of Extended Spectrum β -Lactamases among *Escherichia coli* isolated from Yamuna River flowing through the districts of Haryana’ (Tenure-1year: 2024-2025; Budget: 1 lakh). **Completed**
- **Dr. Radha Krishnan Foundation Funds project** entitled ‘Antibiotic susceptibility and ESBL detection in *Pseudomonas aeruginosa* isolated from Haryana’ **Completed**

- **DST Project** titled ‘Bacterial arginine deiminase: characterization, cloning and evaluating their efficacy as anti-cancerous agent’ submitted under Start Up Research Grant (Young Scientists), (Tenure-3 years: 2015-2018; Budget: 26.8 lakhs). **Completed**
- **UGC-Major Research project** entitled ‘Identification and characterization of Integron-mediated antibiotic resistance in *Escherichia coli* isolated from Yamuna River water’ (Tenure-3years: 2012-2015 Budget: 14.2 lakhs). **Completed**

Research Supervision

- **Ph.D Guidance**- 10 students, 6 completed, 4 ongoing
- **MSc. Dissertations** supervised - 47

Patents

- **“Carrier-free immobilized arginine deiminase for biomedical applications”**- Published on 19/07/2024, (Application no.: 202311002663)
- **“Polymeric nanoparticles of immobilized arginine deiminase for biomedical application”**- Published on 17/04/2026, (Application no.: 202411075958)

Teaching Experience

- **Teaching postgraduate** students of MSc Microbiology and MSc Microbial Biotechnology at MDU since Sept., 2010
- Taught **Graduate students at University of Delhi** as Adhoc lecturer (Aug 2007- Sept., 2010 and Jul 2001-Mar 2002)

Visits Abroad

- **University of Vienna, Austria** to represent Maharshi Dayanand University in the ENPRENDIA Project Training
- **Heidelberg, Germany**, April 22-26, 2004 for paper presentation at EMBO conference on molecular microbiology: Exploring prokaryotic diversity

Research Publications

1. Kuhad, R.C., **Gulati, P.** & Raj, K. (2027) Next-Generation Microbiology. Indian J Microbiol (2026). <http://doi.org/10.1007/s12088-026-01575-3> **IF 2.2**
2. Jangra, N., & **Gulati, P.** (2026). Distribution of multiple β -lactam-resistant and extended-spectrum β -lactamases (ESBL)-producing *Escherichia coli* in the Yamuna river flowing through Haryana India. *International Journal of Environmental Health Research*. <https://doi.org/10.1080/09603123.2026.2705546> **IF 1.9**
3. Kawatra, A., & **Gulati, P.** (2025). Arginine deiminase-polymeric hybrid nanoconjugates: A potential biodrug for targeted treatment of arginine auxotrophic cancers. *International Journal of Biological Macromolecules*, 143679. <https://doi.org/10.1016/j.ijbiomac.2025.143679> **IF 8.5**
4. Mishra, R., Agarwal, P., Sharma, A., Mittal, M., **Gulati, P.**, & Mohanty, A. (2025). Plant-derived Cyclotides in Immunomodulation and their Therapeutic Potential. *Protein & Peptide Letters*, 2025, Volume 33, Issue 1, 3-15. <https://doi.org/10.2174/0109298665364479250214101422> **IF 1.1**
5. Jangra, N., Chahar, N., Parmar, A., & **Gulati, P.** (2025). Synbiotics: An emerging Frontier in Infectious Disease Control. *Probiotics and Antimicrobial Proteins*. <https://doi.org/10.1007/s12602-025-10690-4> **IF 4.4**
6. Kawatra, A., Dhankhar, R., Datten, B., Dhankhar, S., Chhabra, D., & **Gulati, P.** (2024). Integrated neural network and PSO hybrid approach for production of citrulline using immobilized permeabilized *Pseudomonas furukawii*. *Letters in Applied Microbiology*, ovae111. <https://doi.org/10.1093/lambio/ovae111> **IF 2.1**
7. Kawatra, A., Datten, B., Hans, R., & **Gulati, P.** (2024). Hybrid magnetic nanocomposites of arginine deiminase with improved stability and recyclability for biomedical applications. *Preparative Biochemistry & Biotechnology*, 1-8. <https://doi.org/10.1080/10826068.2024.2430626> **IF 1.9**
8. Jangra, N., Kawatra, A., Datten, B., Gupta, S., & **Gulati, P.** (2024). Recent trends in targeted delivery of smart nanocarrier-based microbial enzymes for therapeutic applications. *Drug Discovery Today*, 103915. <https://doi.org/10.1016/j.drudis.2024.103915> **IF 7.5**
9. Kawatra, A., Chhabra, D., & **Gulati, P.** (2024). Cross-linked arginine deiminase aggregates for enhanced production of nutraceutical citrulline. *Process Biochemistry*, 136, 147-155. <https://doi.org/10.1016/j.procbio.2023.11.015> **IF 4.0**

10. Dhankhar, R., Kawatra, A., Gupta, V., Mohanty, A., and **Gulati, P.** (2022). In silico and in vitro analysis of arginine deiminase from *Pseudomonas furukawaii* as a potential anticancer enzyme. **3 Biotech**, 12(9), 1-13. <https://doi.org/10.1007/s13205-022-03292-2>. **IF 2.9**
11. Mor, P., Sheoran, A., Dahiya, B., Parshad, S., Nain, R., Khan, A., Malhotra, P., Gulati, P., Mehta, P. K. (2022) Diagnosis of abdominal tuberculosis by multi-targeted (mpt64 and IS6110) loop-mediated isothermal amplification assay. *Journal of Gastroenterology and Hepatology* <https://doi.org/10.1111/jgh.16036> 37 (12), 2264-2271. **IF: 3.4**
12. Dhankhar, R., Gupta, S., **Gulati, P.** (2022) Insights on plant–microbe interactions in soil in relation to iron dynamics. *Vegetos*. 2229-4473. <https://doi.org/10.1007/s42535-022-00467-3> **IF 0.046**
13. Mor, P., Dahiya, B., Sharma, S., Sheoran, A., Parshad, S., Malhotra, P., **Gulati, P.** and Mehta, P.K. (2022) Diagnosis of peritoneal tuberculosis by real-time immuno-PCR assay based on detection of a cocktail of *Mycobacterium tuberculosis* CFP-10 and HspX proteins. **Expert Review of Gastroenterology & Hepatology**. <https://doi.org/10.1080/17474124.2022.2088509> **IF 2.5**
14. Kawatra, A., Dhankhar, R., and **Gulati, P.** (2022) Microbial arginine deiminase: A multifaceted green catalyst in biomedical sciences. **International Journal of Biological Macromolecules**, Volume 196, 151-162, ISSN 0141-8130. <https://doi.org/10.1016/j.ijbiomac.2021.12.015> **IF 8.5**
15. Mor, P., Dahiya, B., Parshad S., **Gulati, P.**, and Mehta, P.K. (2022) Recent updates in diagnosis of abdominal tuberculosis with emphasis on nucleic acid amplification tests, **Expert Review of Gastroenterology & Hepatology**, 16:1, 33-49. <https://doi.org/10.1080/17474124.2022.2021068> **IF 2.5**
16. Dhankhar, R., Kawatra, A., Mohanty, A., and **Gulati, P.** (2021) Microbial enzymes used in prodrug activation for cancer therapy: Insights and future perspectives. **Current Protein & Peptide Science**, 22:1. <https://doi.org/10.2174/1389203721666201207231932> **IF 2.0**
17. Singha, TK., Dagar, VK., **Gulati, P.**, and Kumar S. (2021) Kinetic study and optimization of recombinant human tumor necrosis factor- α (rhTNF- α) production in *Escherichia coli*. **Preparative Biochemistry & Biotechnology**. 51(3):267-76. <https://doi.org/10.1080/10826068.2020.1815056> **IF 1.9**
18. Grover, T., Mishra, R., **Gulati, P.**, Mohanty, A. (2021). An insight into biological activities of native cyclotides for potential applications in agriculture and pharmaceuticals. **Peptides**. 135:170430. <https://doi.org/10.1016/j.peptides.2020.170430> **IF 2.9**
19. Kawatra, A., Dhankhar, R., Mohanty, A., and **Gulati, P.** (2020). Biomedical applications of microbial phenylalanine ammonia lyase: Current status and future prospects. **Biochimie** 177:142-152. <https://doi.org/10.1016/j.biochi.2020.08.009> **IF 3.0**
20. Khare, N., Kaushik, M., Martin, JP., Mohanty, A., and **Gulati, P.** (2020). Genotypic diversity in multi-drug-resistant *E. coli* isolated from animal feces and Yamuna River water, India, using rep-PCR fingerprinting. **Environmental Monitoring and Assessment**, 192 (11):681. <https://doi.org/10.1007/s10661-020-08635-1> **IF 3.0**
21. Khare, N., Kaushik, M., Kumar, S., and **Gulati, P.** (2020) Evaluation of genetic diversity among aquatic and fecal isolates of *Escherichia coli* using multilocus variable number of tandem repeat analysis. **3 Biotech**. 10(2):63 <https://doi.org/10.1007/s13205-020-2066-0> **IF 2.9**
22. Dhankhar, R., Gupta, V., Kumar, S., Kapoor, R.K., and **Gulati, P.** (2020) Microbial enzymes for deprivation of amino acid metabolism in malignant cells: biological strategy for cancer treatment. **Applied Microbiology and Biotechnology** 104:2857 – 2869. <https://doi.org/10.1007/s00253-020-10432-2> **IF 4.3**
23. Mehta, L., Dhankhar, R., **Gulati, P.**, Kapoor, R. K., Mohanty, A., and Kumar, S. (2020). Natural and grafted cyclotides in cancer therapy: An insight. *Journal of Peptide Science*, e3246. <https://doi.org/10.1002/psc.3246> **IF 1.8**
24. Tammineni, R., **Gulati, P.**, Kumar, S., and Mohanty, A. (2020) An overview of acyclotides: Past, present and future. *Phytochemistry*. 170:112215. <https://doi.org/10.1016/j.phytochem.2019.112215> **IF 3.4**
25. Grover, T., Mishra, R., **Gulati, P.**, and Mohanty, A. (2020). An insight into biological activities of native cyclotides for potential applications in agriculture and pharmaceuticals. **Peptides**. <https://doi.org/10.1016/j.peptides.2020.170430> **IF 2.9**
26. Dhankhar, R., Kumar, A., Kumar, S., Chhabra, D., Shukla, P., and **Gulati, P.** (2019) Multilevel algorithms and evolutionary hybrid tools for enhanced production of arginine deiminase from *Pseudomonas furukawaii* RS3. *Bioresource Technology* 290:121789. <https://doi.org/10.1016/j.biortech.2019.121789> **IF 9.0**
27. Kaushik M., Kumar S., Kapoor, R.K., and **Gulati, P.** (2019) Integrins and antibiotic resistance genes in water-borne pathogens: Threat Detection and Risk Assessment. *Journal of Medical Microbiology*. 68(5):679-692. <https://doi.org/10.1099/jmm.0.000972> **IF 2.5**

28. Kaushik M., Khare N., Kumar S., and **Gulati, P.** (2019) High Prevalence of Antibiotic Resistance and Integrins in *Escherichia coli* Isolated from Urban River Water, India. *Microbial Drug Resistance*. 25 :359-370. <https://doi.org/10.1089/mdr.2018.0194> **IF 1.9**
29. Kaushik M., Kumar S., Kapoor R.K., Viridi J.S., and **Gulati, P.** (2018) Integrins in *Enterobacteriaceae*: diversity, distribution and epidemiology. *International Journal of Antimicrobial Agents*. 51:167-176. <https://doi.org/10.1016/j.ijantimicag.2017.10.004> **IF 4.6**
30. Dhankhar R., **Gulati, P.**, Kumar S., and Kapoor R.K. (2018) Arginine-lowering enzymes against cancer: a technocommercial analysis through patent landscape. *Expert Opinion on Therapeutic Patents*. 28:603-614. <https://doi.org/10.1080/13543776.2018.1508452> **IF 4.6**
31. Gupta V., Jain K., Garg R., Malik A., **Gulati, P.**, and Bhatnagar R. (2018) Characterization of a twocomponent system, Bas1213-1214, important for oxidative stress in *Bacillus anthracis*. *Journal of Cellular Biochemistry*. 119:5761-5774. <https://doi.org/10.1002/jcb.26751> **IF 2.8**
32. Singha, T., **Gulati, P.**, and Kumar S. (2018) Nonconventional induction strategies for production of recombinant human tumor necrosis factor-alpha in *Escherichia coli*. *Journal of Applied Biology & Biotechnology*. 6:23-27. <https://doi.org/10.7324/JABB.2018.60105> **IF 2.5**
33. Singh J., Saharan V., Kumar S., **Gulati, P.**, and Kapoor R.K. (2017) Laccase grafted membranes for advanced water filtration systems: a green approach to water purification technology. *Critical Reviews in Biotechnology*. 38:883-901. <https://doi.org/10.1080/07388551.2017.1417234> **IF 7.7**
34. Gupta V., Chaudhary N., Aggarwal S., **Gulati, P.**, and Bhatnagar R. (2017) Functional analysis of BAS 2108-2109 two component system: evidence for protease regulation in *Bacillus anthracis* (2017). *The International Journal of Biochemistry & Cell Biology*, 89: 71-84. <https://doi.org/10.1016/j.biocel.2017.06.004> **IF 2.8**
35. Singha T., **Gulati, P.**, Mohanty A., Khasa Y.P., Kapoor R.K., and Kumar S. (2017) Efficient genetic approaches for improvement of plasmid based expression of recombinant protein in *Escherichia coli*: A review. *Process Biochemistry*. 55:17-31. <https://doi.org/10.1016/j.procbio.2017.01.026> **IF 4.0**
36. Gupta V., **Gulati, P.**, Bhagat N., Dhar M., and Viridi, J.S. (2015) Detection of *Yersinia enterocolitica* in food: an overview. *European Journal of Clinical Microbiology & Infectious diseases*. 34:641-650. <https://doi.org/10.1007/s10096-014-2276-7> **IF 3.0**
37. Kumar S., **Gulati, P.**, and Kapoor R.K. (2012) In Vitro Studies in *Solanum xanthocarpum* to compare the potential of different explants towards callus induction and shoot formation. *International Journal of Current Research* 5:1360-1362. **IF 8.1**
38. Kapoor R.K., Kumar S., **Gulati, P.**, and Malik U. (2011) Top 10 Innovative Technologies for Yogurt Making Shortlisted Through Patent Research *The Indian Buffalo Journal*. 1: 38-42.
39. **Gulati P.**, Varshney R.K., and Viridi J.S. (2009) Development of multilocus variable number tandem repeat analysis (MLVA) as a tool to discern genetic relationships amongst strains of *Yersinia enterocolitica*. *Journal of Applied Microbiology* 107: 875-84. <https://doi.org/10.1111/j.1365-2672.2009.04267.x> **IF 3.2**
40. **Gulati, P.**, and Viridi J.S. (2007) *rrnloci* and *gyrB* based genotyping confirms the existence of two clonal groups in strains of *Yersinia enterocolitica* subspecies *polarctic* biovar 1A. *Research in Microbiology* 153: 236-243. <https://doi.org/10.1016/j.resmic.2006.11.011> **IF 3.4**
41. Viridi J.S., **Gulati, P.**, and Pai M. (2007) Genetic diversity of pathogenic microbes and its medical and public health significance. *Indian Journal of Medical Microbiology*. 25: 2-3. <https://doi.org/10.4103/0255-0857.31052> **IF 1.3**
42. **Sachdeva P.**, and Viridi J.S. (2005) Molecular heterogeneity in *Yersinia enterocolitica* and *Y. enterocolitica*-like species, ã Implications for epidemiology, typing and taxonomy. *FEMS Immunology and Medical Microbiology* 45: 1-10 <https://doi.org/10.1016/j.femsim.2005.03.006> **IF 3.088**
43. Viridi J.S., and **Sachdeva P.** (2005) Genetic diversity of pathogenic microorganisms – Basic insights, public health implications and the Indian initiatives. *Current Science* 89: 113-123. <http://www.jstor.org/stable/24110437>
44. **Sachdeva P.**, and Viridi J.S. (2004) Repetitive elements sequence (REP/ERIC) - PCR based genotyping of clinical and environmental strains of *Yersinia enterocolitica* biotype 1A reveal existence of limited number of clonal groups. *FEMS Microbiology Letters* 240:193-201. <https://doi.org/10.1016/j.femsle.2004.09.029> **IF 2.2**
45. Sharma S., **Sachdeva P.**, and Viridi J.S. (2003) Emerging water-borne pathogens. *Applied Microbiology and Biotechnology* 61: 424 - 428. <https://doi.org/10.1007/s00253-003-1302-y> **IF 4.3**
46. **Sachdeva P.**, and Viridi J.S. (2003) Extinction of microbes. *Current Science* 85: 839-840.

47. Sharma S., **Sachdeva P.**, and Viridi J.S. (2001) Emergence and spread of infectious diseases: Role of changing environment The Botanica 51: 52-57.

Book Chapters Published

1. Datten B., **Gulati, P.**, (2026) Microbial consortia mediated transformation of floral waste into value-added products. In *Microbial Biotechnology for Revolutionizing Biobased Biorefineries*, Elsevier (eds Yogesh K. Ahlawat, Ramesh ChanderKuhad, Vijai Kumar Gupta)<https://doi.org/10.1016/B978-0-443-27747-4.00005-X>
2. Datten, B., Jangra, N. and **Gulati, P.** (2026). Co-Encapsulated Synbiotics for Improved Human Health. In Synbiotics. In Synbiotics (eds A. Panghal, N. Singh, R.C. Kuhad and M. Kumar). <https://doi.org/10.3390/foods10061297>
3. Maheshwari NV, **Gulati, P.**, Gupta S.(2025). Biomass to Bioethanol: promising avenue for sustainable future. In *Lignocellulosic Biomass and Enzymes: Fundamentals, Emerging Technologies and Applications*.https://doi.org/10.1007/978-981-96-3037-0_16
4. Jangra, N., Kawatra, A., Dhankhar, R., &**Gulati, P.** (2023). Bacteria and Bacteria-Based Products in Cancer Therapy: Current Status and Future Advances. In *Role of Microbes in Sustainable Development: Human Health and Diseases* (pp. 441-470). Singapore: Springer Nature Singapore.https://doi.org/10.1007/978-981-99-3126-2_20
5. Dhankhar, R., Gupta, S., &**Gulati, P.** (2023). Insights on plant–microbe interactions in soil in relation to iron dynamics. *Vegetos*, 36(3), 750-767.
6. Kaushik, M., Sharma, A., Gupta, S., &**Gulati, P.** (2023). Current Antifungal Drugs. In *Current Trends in the Identification and Development of Antimicrobial Agents* (pp. 125-166). Bentham Science Publishers.<https://doi.org/10.2174/97898150800561230201>
7. Kawatra, A, Dhillon, S., Dhankhar, R., **Gulati, P.**(2023) Bacterial Drug Delivery Vehicles for targeted therapy of tumours In *Microbial Products: Applications and Translational trends* (Ed. Mamtesh Singh, GajendraPratap Singh, Shivani Tyagi). Published by CRC Press, Taylor & Francis group pp. 373-385. ISBN: 978-100-3306-93-1
8. Kawatra,A., Gupta, S., Dhankhar, R., Singh, P, **Gulati, P.** (2023) Application of Phytochemicals in Therapeutic, Food, Flavor, and Cosmetic Industries In *Phytochemical Genomics:Plant Metabolomics and Medicinal Plant Genomics* (Ed. Mallappa Kumara Swamy and Ajay Kumar), Published by Springer Nature, Singapore. ISBN: 978-981-19-5778-9. https://doi.org/10.1007/978-981-19-5779-6_4
9. Dhankhar, R. Regmi, K., Kawatra, A., **Gulati, P.** (2023) Trichomics: Trichomes as Natural Chemical FactoriesIn *Phytochemical Genomics:Plant Metabolomics and Medicinal Plant Genomics* (Ed. Mallappa Kumara Swamy and Ajay Kumar), Published by Springer Nature, Singapore. ISBN: 978-981-19-5778-9. https://doi.org/10.1007/978-981-19-5779-6_15
10. Kawatra, A., Mishra, R., Mohanty, A., **Gulati, P.**Plants As Antiviral Agents In handbook of agriculture and plant science (Ed. Dwaipayan Sinha), Published by ABS Books, New Delhi, pp. 171-186, ISBN: 978-93-9100-25-1
11. Dhankhar, Rakhi, Mohanty, A,**Gulati, P.** (2021) Microbial Diversity of Phyllosphere: Exploring the Unexplored. In *Phytomicrobiome Interactions and Sustainable Agriculture* (Ed. Dr. Jitender Kumar & Dr. Amit Verma). Published by John Wiley & Sons, Ltd Chichester, UK. pp 66-90. ISBN: 978-1-119-64462-0. <https://doi.org/10.1002/9781119644798.ch5>
12. Mishra, R., Grover, T.,**Gulati, P.**, Mohanty, A. (2021) Rhizosphere Engineering: An Effective Approach for Sustainable Modern Agriculture. In *Phytomicrobiome Interactions and Sustainable Agriculture* (Ed. Dr. Jitender Kumar & Dr. Amit Verma). Published by John Wiley & Sons, Ltd Chichester, UK. pp. 91-117 ISBN: 978-1-119-64462-0. <https://doi.org/10.1002/9781119644798.ch6>
13. Viridi, J.S., Kumar, P., Mallik, S., Bhagat, N., **Gulati, P.**(2012) Insights into the Genetic Relationships Between Environmental and Clinical Strains of *Yersinia enterocolitica* Biovar 1A. In *Microorganisms in Environmental Management: Microbes and Environment* (Ed. T. Satyanarayana). Published by Springer. pp 61-80 ISBN: 978-94-007-2229-3. https://doi.org/10.1007/978-94-007-2229-3_3
14. Kapoor, RK,**Gulati, P.**,Kumar, S. (2012). Patenting of Genes and Their Subsequences- A Case Study of *Clostridium difficile* Toxin Genes. Proceedings of the National Seminar on Internet Applications in Research March 23, 2012 Department of Zoology, MD University, Rohtak
15. Viridi, J.S., **Sachdeva, P.**, Bhagat, N., Mallik, S., Sharma, S., and Mittal, S. (2008) *Yersinia enterocolitica* and Yersiniosis (Eds. C. Vaishnavi). Paragon International publishers
16. **Sachdeva P**, Viridi JS (2006). DNA fingerprinting techniques for identification and characterization of bacteria. In: *Applied Microbiology* (Eds. P. C. Trivedi), agribios India, Jodhpur, pp. 199-210 ISBN 13: 9788177542844

17. Viridi JS, **Sachdeva P**, Sharma S, Bhagat N (2006). Serological, molecular and pathogenicity-related characteristics of *Yersinia enterocolitica* isolated from India. Proceedings of 47th Annual Conference of Microbiologist of India. Narosa Publishing House (In Press)
18. Viridi, J.S., **Sachdeva, P.**, Bhagat, N., Singh, I., Sinha, I., Sharma, S., Mallik, S. and Mittal, S. (2005) Serological and molecular diversity of *Yersinia enterocolitica* isolated from India. Microbial Diversity: Current perspectives and potential applications, IK International Pvt. Ltd. (Ed. T. Satyanarayana and B. N. Johri) pp.1037-1052 IISBN: 9789390455591\

E content created:

- **Gulati, P.** (2018) e PG pathshala module on **Immunological methods for diagnosis** in subject : Biotechnology, Paper: Animal cell biotechnology Module no. 22 [e-PGPathshala \(inflibnet.ac.in\)](http://e-PGPathshala.inflibnet.ac.in)
- **Gulati, P.** (2018) e PG pathshala module on **Nucleic acid based assays** in Subject : Biotechnology, Paper: Animal cell biotechnology Module no. 23 [e-PGPathshala \(inflibnet.ac.in\)](http://e-PGPathshala.inflibnet.ac.in)
- **Gulati P**, Bhagat N and Viridi JS (2005). *Yersinia enterocolitica*: Virulence and epidemiological attributes. <http://www.aclisassari.com/acli-openlearning/lectures.php>

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