

AWARDS & ACCOLADES

Recipient of **Late Shri Surendra Singh Panwar and Shrimati Saroj Singh gold medal in M.Sc. Microbiology** in 27th convocation.



Recipient of **Raajayapaal Swaran Padak award in MSc. Microbiology** in 27th convocation.



Recipient of the **BRICPL Appreciation Award** in ICAAAS-2018 (International Conference on Agriculture, Allied, and Applied Sciences) at Jawaharlal Nehru University, New Delhi.



Awarded as the **Young Scientist, 2022** for Exceptional Achievements in the field of Microbiology during 3 days International Conference on Environment, Healthcare, Food Security and Sustainable Development (EHFSSD-2022) from 5-7th June 2022 in Shobhit Institute of Engineering & Technology, Meerut, India.



Invited speaker, 2023 in Indian Science Congress Association (ISCA) under the Environmental Sciences Section from 3rd-7th January 2023 at RTMN University, Nagpur

CORE COMPETENCIES

Microbiology | Manufacturing practice | Learner Engagement, Evaluation & Inclusion | Aseptic Techniques | Laboratory Info Management | Record Keeping | Student Goal-Setting | Environmental Monitoring | Life sciences | Research and analysis | Creative Lesson Planning | Food microbiology

ACADEMIC CREDENTIALS

- **Ph. D. in Department of Microbiology, entitled** "Isolation and Characterization of Lactic Acid Bacteria from Milk and Milk Products and their Applications in Preparation of Yoghurt. | CCS University Meerut | 2021
- **M.Sc., Applied Microbiology** | C.C.S. University Meerut | 2015
- **B.Sc. Biotechnology** | C.C.S. University Meerut | 2013

OVERVIEW

Result-driven professional, with holding a degree for Ph.D. in Microbiology and passion to impart knowledge and skills related to the study of microorganisms to numerous students with diverse intellectual capabilities. **Capabilities to design holistic lesson plans and instructional programs** that disseminate knowledge of core subject matters of Microbiology to students of various learning styles, primary languages, cultural backgrounds, and intellectual capabilities

PROFILE SYNOPSIS

- **Possesses an integrated set of competencies** in quality teaching, developing policies effectively supporting the institute's goals, and recommending changes in academic policy.
- **Flexible thinker** with ability to tackle challenges and bring quality educational programs through visionary, courageous, collaborative & determined approach. conducting sound competency assessments within the acquired discipline.
- **Strong grounding in providing** high quality teaching and learning support to students by efficiently developing adept performance measuring & validation activities which accurately measure student's learning abilities & facilitate improved educational outcomes.
- **Relentlessly stays abreast** of the latest research, techniques, and developments in microbiology and related fields, and incorporates them into implemented teaching and research plans and activities.
- **Intellectually competent** in designing, organizing, and conducting highly specialized and advanced experiments using established scientific protocols and procedures; summarizing findings and publishing results in research journals.
- **Creative problem solver**, sustaining a positive environment of learning, inclusion, and productivity by proactively meshing with cross- functional departments and professors to optimize lesson development & execution.

CAREER CONTOUR

Assistant Professor | Shobhit Institute of Engineering & Technology, Meerut | May 2022 – Present

Guest Faculty, Department of Microbiology in B.Sc. and M.Sc. | Ch. Charan Singh University | Aug 2016 – Mar 2019

Key Deliverables:

- Assist with various departmental duties and provide academic support to Professors and other staff.
- Conduct research and publish papers in academic journals.
- Represent the university at conferences and deliver presentations when necessary.
- Teach and supervise undergraduate and graduate students.
- Provide demonstrations and supervise experiments and investigations.
- Provide Professors and Department Heads with feedback on student progress.
- Write proposals to secure funding for research.
- Attend faculty and departmental meetings and voice concerns or provide suggestions for improvement.

HOSTING ENGAGEMENTS

- Organized 3 days International Conference on Environment, Healthcare, Food Security and Sustainable Development (EHFSSD-2022) from 5-7th June, 2022 in Shobhit Institute of Engineering & Technology (Deemed to-be University), Meerut, India.
- Organized Indian Science Congress Association (ISCA) under the Environmental Sciences Section from 3rd-7th January, 2023 at RTMN University, Nagpur.

CONFERENCES & SEMINARS

- Participated as a delegate in one day "National Seminar on Opportunistic Human Pathogens" on 25th June 2016 at the Department of Microbiology, Ch. Charan Singh University, Meerut.
- Participated as a delegate in the "National Conference on Scientific Updates on Zoonotic Diseases Control" on 6th July 2016 at AIIMS New Delhi.

- Participated as a delegate in the “One Day Basic Training Programme on Human Rights Understanding Women Rights in Contemporary India” on 2nd February 2017 at the Department of Political Science, Ch. Charan Singh University, Meerut. Participated in a Poster presentation at International Conference on “Technological Advancement for Sustainable Agriculture and Rural Development (Tasard-India)” from 20- 22nd February 2017 at IARI New Delhi
- Participated in a Paper Presentation for Two days “National Conference on Demonetization, Digital India and Cashless Economy: A Socio-Economic Transformation” from 17-18th March 2017 at the Institute of Business Studies at Ch. Charan Singh University, Meerut.
- Participated in an Oral presentation at International Conference on “Agriculture, Allied and Applied Sciences (ICAAAS-2018) with special reference to Energy, Environment and Biotechnology Research Organized by Biologix Research and Innovation Centre Pvt Ltd. (BRICPL) in Jawaharlal Nehru University, India held on April 28-29 in New Delhi (India).
- Participated in an Invited talk on “Genetic and Stem Cell Research- Paradigm in Science” held on 28th March 2019 at Shobhit Deemed University, Modipuram, Meerut, Uttar Pradesh, India.
- Participated in Paper Presentation in National Seminar on “Emerging trends in Bio- Electronics and Informatics” held at Shobhit Deemed University, Modipuram, Meerut, India during 20-21 April 2019.
- Participated in oral presentation in a national seminar-cum-workshop on “The Biodiversity Conservation and Sustainable Use of Medicinal & Aromatic Plants” held on August 31-September 01, 2019 in Department of Botany, Ch. Charan Singh University, Meerut.
- Participated in National Seminar on “Ethnomedicinal Wealth of India: Conservation and Sustainable Management” held on January 29, 2020 by Department of Botany, R.G.P.G College, Meerut.
- Participated as Invited speaker in International Conference on Environment, Healthcare, Food Security and Sustainable Development (EHFSSD-2022) from 5- 7 th June, 2022 in Shobhit Institute of Engineering & Technology (Deemed to-be University), Meerut, India.
- Participated as Invited speaker, 2023 in Indian Science Congress Association (ISCA) under the Environmental Sciences Section from 3rd-7th January, 2023 at RTMN University, Nagpur.

PUBLICATIONS

- Bisht, N.; Jyoti and Garg. A.P (2017). Antifungal activities of some medicinal plants and weeds. *J. Emerging Tech. Innovation Res* 4.
- Bisht, N.; Jyoti.; Sharma. R. and Garg. A.P (2017). Digital India. Bharti Publication, New Delhi, ISBN978-93-81212-83-7. 169-180.
- Neha Bisht, Reetu Gour, Anjali Malik and A P Garg. Efficiency and Potential of Lactic Acid Bacteria in Modulating Human Health. Conference Book (ICAAAS2018, New Delhi, INDIA).
- Reetu Gour, Neha Bisht, Ajay K Shukla, and A P Garg. In Silico Analysis of TaNAC47 Transcription Factor. Conference Book (ICAAAS-2018, New Delhi, INDIA).
- Jyoti, Sudha Sazawal, Neha Bisht and A P Garg. Prevalence of Janus 2 Mutant in Indian patients suffering from Polycythemia Vera. Conference Book (TASARDINDIA, 2017).
- Neha Bisht, Reetu Gour and A P Garg. Antagonistic activity of lactic acid bacteria against food-borne pathogens. (SETBI-2019).
- Bhashkar Tripathi, Reetu Gour, Neha Bisht, Dr. Ajay K. Shukla. Genome-Wide Identification and Mapping of NBS-Encoding Resistance Genes in *Solanum tuberosum*. (SETBI-2019).
- Reetu Gour, Neha Bisht, Amar P. Garg, Dr Ajay K. Shukla. In silico Analysis of Mechanistic in the sights into the mode of action of novel natural cathepsin L inhibitors. (SETBI- 2019).
- Bisht N and Garg A. P. Antagonistic Activity of Lactic Acid Bacteria Against Common Enteric Pathogens Isolated from Milk and Milk Products and Evaluation of their Probiotic Attributes. *Biosc. Biotech. Res. Comm.* 2019; 12(4). 1173-1184. <http://dx.doi.org/10.21786/bbrc/12.4/42>.
- Neha Bisht and A P Garg. Potential Application of Herbs and Spices in Functional Dairy Products. Conference Book (national seminar on Ethnomedicinal Wealth of India). 2020
- Bisht N and Garg A P. Isolation, Characterization and Probiotic value of Lactic Acid Bacteria from Milk and Milk Products. *Biotech Today*. 2020. 9(2).54-63. [10.5958/2322-0996.2019.00022.X](https://doi.org/10.5958/2322-0996.2019.00022.X)
- Neha Bisht and A.P. Garg (2021). Role of Gut Microbiota in Human Health-A Review. *Res. J Biotech.* 16(1).202-212.
- Bisht N, SHIRI T and GARG A P (2021). Evaluation of *Lactobacillus fermentum* as a potential food supplement in freshwater *Labeorohita* fingerlings. *UTTAR PRADESH JOURNAL OF ZOOLOGY*. 42(14), 33-42. <https://mbimph.com/index.php/UPJOZ/article/view/2252>.
- Helicobacter pylori* gastric infection: Pathogenesis and Clinical Management. *Helicobacter pylori Infection - An Up to Date on the Pathogenic Mechanisms, Diagnosis and Clinical Management. Intech Open.* 22nd Oct, 2022.
- M. Saini, N. Bisht and D. Prakash (2022). Control on industrial dye's production (Flex's) by using bio-adsorbents, *Materials Today: Proceedings*, <https://doi.org/10.1016/j.matpr.2022.12.076>
- Neha Bisht and A.P. Garg (2023). Health management using probiotics. *J. of advanced paediatrics and child health.* 6: 001-006. <https://doi.org/10.29328/journal.japch.1001053>
- Garg AP, Bisht N. Role of biostatistics and biometrics based artificial intelligence in human medicare system in 2050. *Biom Biostat Int J.* 2023;12(1):27-32. DOI: [10.15406/bbij.2023.12.00379](https://doi.org/10.15406/bbij.2023.12.00379).
- Singh J, Bisht N, Garg AP (2023) Preparation, production and characteristics of sugarcane vinegar. *J Biol Med* 7(1): 008-016. DOI: <https://dx.doi.org/10.17352/jbm.000036>

SEQUENCE SUBMISSION

- Accession No. MN421922 (*Lactobacillus fermentum* strain C9 16S ribosomal RNA gene, partial sequence) 851bp on 9 Sep 2019